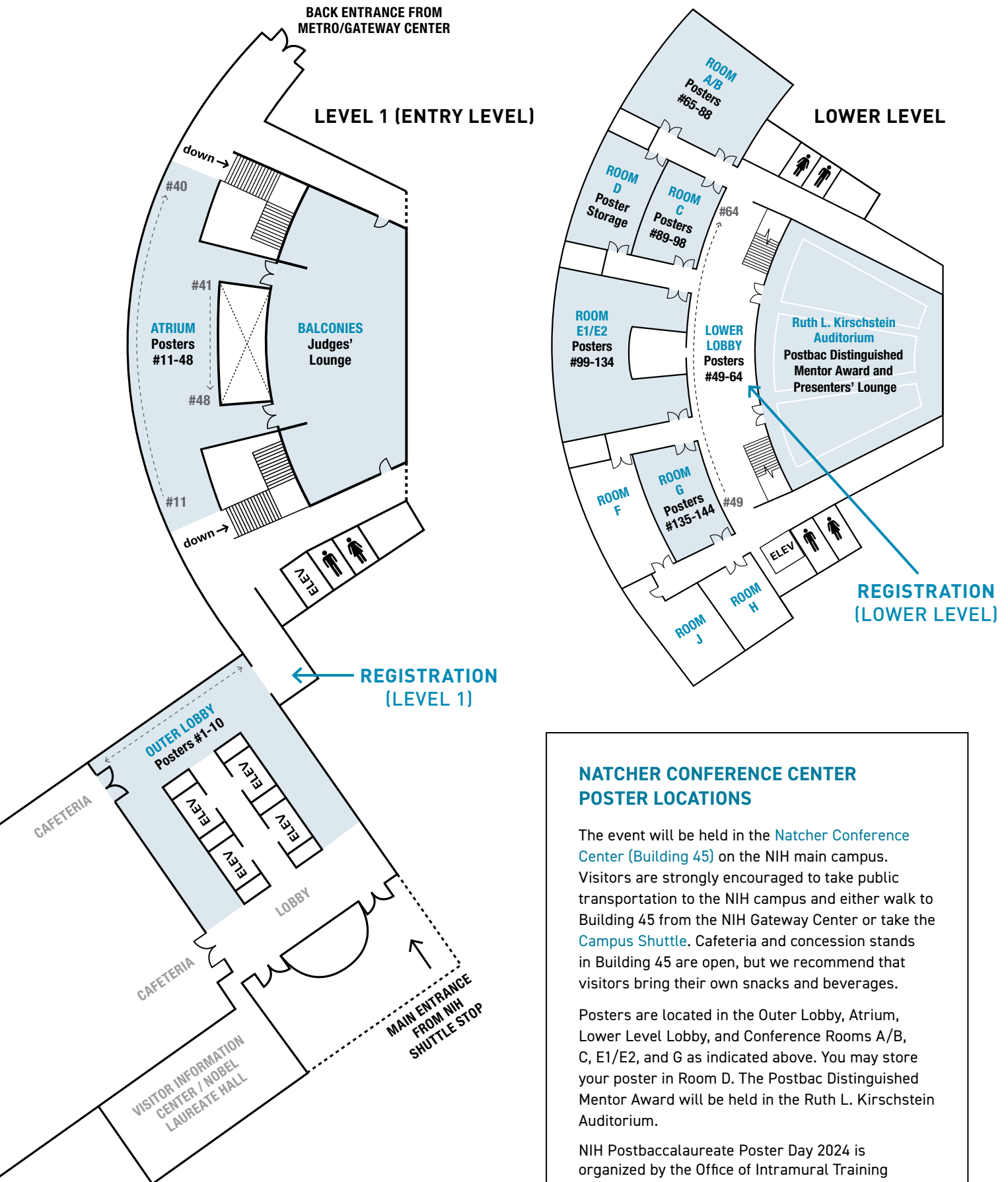

NIH POSTBAC POSTER DAY 2024

MAY 1-2, 2024



NATCHER CONFERENCE CENTER



NATCHER CONFERENCE CENTER POSTER LOCATIONS

The event will be held in the [Natcher Conference Center \(Building 45\)](#) on the NIH main campus. Visitors are strongly encouraged to take public transportation to the NIH campus and either walk to Building 45 from the NIH Gateway Center or take the [Campus Shuttle](#). Cafeteria and concession stands in Building 45 are open, but we recommend that visitors bring their own snacks and beverages.

Posters are located in the Outer Lobby, Atrium, Lower Level Lobby, and Conference Rooms A/B, C, E1/E2, and G as indicated above. You may store your poster in Room D. The Postbac Distinguished Mentor Award will be held in the Ruth L. Kirschstein Auditorium.

NIH Postbaccalaureate Poster Day 2024 is organized by the Office of Intramural Training & Education, National Institutes of Health.

NIH POSTBACCALAUREATE POSTER DAY 2024: MAY 1-2, 2024

POSTER SESSION INFORMATION

NIH Postbac Poster Day 2024 is organized into eight in-person 75-minute poster sessions.

The poster sessions will be held at the Natcher Conference Center (Building 45) on the main campus in Bethesda. Sessions are organized by Institutes and Centers, and each day is broken up into four sessions: 9:30 a.m. - 10:45 a.m., 11:00 a.m. - 12:15 p.m., 1:30 p.m. - 2:45 p.m., and 3:00 p.m. - 4:15 p.m.

The Postbac Distinguished Mentor Award will be held in the Ruth L. Kirschstein Auditorium.

AGENDA

DATE	TIME (Eastern Time)	SESSION #	INSTITUTE-CENTER
Wednesday May 1, 2024	9:30 AM - 10:45 AM	1	CC, NHLBI, NIMH
	11:00 AM - 12:15 PM	2	NIA, NIDDK, NIMH
	12:30 PM - 1:15 PM		Postbac Distinguished Mentor Award
	1:30 - 2:45 PM	3	NHGRI, NIDA, NINDS
	3:00 - 4:15 PM	4	NEI, NIAAA, NIAMS, NIDCD, NINDS
Thursday May 2, 2024	9:30 AM - 10:45 AM	5	NIAID, NICHD, NIEHS
	11:00 AM - 12:15 PM	6	NIAID, NICHD, NIDCR, NLM
	1:30 PM - 2:45 PM	7	NCCIH, NCI, NIMHD, NINR
	3:00 PM - 4:15 PM	8	NCATS, NCI, NIBIB

NOTE: Presenters from NCI, NIAID, NICHD, NIMH, and NINDS are divided into two sessions (Alphabetical by Last Name)

POSTER SESSION INFORMATION

WEDNESDAY, MAY 1, 2024

INSTITUTE OR CENTER	SESSION	POSTER NUMBERS
Session 1: 9:30 a.m. – 10:45 a.m. (ET)		
CC – Clinical Center	1	001-035
NHLBI - National Heart, Lung, and Blood Institute	1	036-082
NIMH - National Institute of Mental Health (A-N)	1	083-137
Session 2: 11:00 a.m. – 12:15 p.m. (ET)		
NIA - National Institute of Aging	2	001-060
NIDDK - National Institute of Diabetes and Digestive and Kidney Diseases	2	061-109
NIMH - National Institute of Mental Health (O-Z)	2	110-137
NCI - National Cancer Institute	2	138-139
Postbac Distinguished Mentor Award: 12:30 p.m. – 1:15 p.m. (ET)		
Session 3: 1:30 p.m. – 2:45 p.m. (ET)		
NHGRI - National Human Genome Research Institute	3	001-057
NIDA - National Institute on Drug Abuse	3	058-113
NINDS - National Institute of Neurological Disorders and Stroke (A-I)	3	114-139
Session 4: 3:00 p.m. – 4:15 p.m. (ET)		
NEI - National Eye Institute	4	001-017
NIAAA - National Institute on Alcohol Abuse and Alcoholism	4	018-053
NIAMS - National Institute of Arthritis and Musculoskeletal and Skin Diseases	4	054-076
NIDCD - National Institute on Deafness and Other Communication Disorders	4	077-086
NINDS - National Institute of Neurological Disorders and Stroke (J-Z)	4	087-137

POSTER SESSION INFORMATION

THURSDAY, MAY 2, 2024

INSTITUTE OR CENTER	SESSION	POSTER NUMBERS
Session 5: 9:30 a.m. – 10:45 a.m. (ET)		
NIAID - National Institute of Allergy and Infectious Diseases (A-L)	5	001-075
NICHD - Eunice Kennedy Shriver National Institute of Child Health and Human Development (A-K)	5	076-111
NIEHS - National Institute of Environmental Health Sciences	5	112-137
Session 6: 11:00 a.m. – 12:15 p.m. (ET)		
NIAID - National Institute of Allergy and Infectious Diseases (M-Z and Rocky Mountain Laboratories)	6	001-073
NICHD - Eunice Kennedy Shriver National Institute of Child Health and Human Development (L-Z)	6	074-108
NIDCR - National Institute of Dental and Craniofacial Research	6	109-134
NLM - National Library of Medicine	6	135-138
Session 7: 1:30 p.m. – 2:45 p.m. (ET)		
NCCIH - National Center for Complementary and Integrative Health	7	001-012
NCI - National Cancer Institute (A-L)	7	013-123
NIMHD - National Institute on Minority Health and Health Disparities	7	124-134
NINR - National Institute of Nursing Research	7	135-137
Session 8: 3:00 p.m. – 4:15 p.m. (ET)		
NCATS - National Center for Advancing Translational Sciences	8	001-014
NCI - National Cancer Institute (L-Z)	8	015-119
NIBIB - National Institute of Biomedical Imaging and Bioengineering	8	120-133
NHLBI - National Heart, Lung, and Blood Institute	8	134
NIDA - National Institute on Drug Abuse	8	135
NIMH - National Institute of Mental Health	8	136

INDEX OF PARTICIPANTS

DATE	TIME (Eastern Time)	SESSION #	INSTITUTE-CENTER
Wednesday May 1, 2024	9:30 AM - 10:45 AM	1	CC, NHLBI, NIMH
	11:00 AM - 12:15 PM	2	NIA, NIDDK, NIMH
	12:30 PM - 1:15 PM		Postbac Distinguished Mentor Award
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Thursday May 2, 2024	9:30 AM - 10:45 AM	5	NIAID, NICHD, NIEHS
	11:00 AM - 12:15 PM	6	NIAID, NICHD, NIDCR, NLM
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	3:00 PM - 4:15 PM	8	NCATS, NCI, NIBIB

NOTE: Presenters from NCI, NIAID, NICHD, NIMH, and NINDS are divided into two sessions (Alphabetical by Last Name)

PRESENTER	#SESSION-POSTER	PRESENTER	#SESSION-POSTER
Abbey, Keith	4-077	Aquino Peterson, Elizabeth	1-037
Abdo, Sara	2-001	Archibald, Ahlina	7-021
Abid, Mahnoor	5-001	Argao, Lorenzo	7-022
Aboagye, Kwabena	1-001	Arif, Aleena	6-109
Acosta, Valeria	3-058	Armenta Vega, Ana	3-060
Adams, Chloe	4-001	Arroyo, Gabriela	7-023
Adegbenro, Temidayo	5-076	Arsenault, Avery	4-019
Adekola, Praise	5-077	Arunkumar, Samyuktha	4-003
Adetola, Heritage	1-002	Ascher, Ilana	3-061
Adu-Gyamfi, Atuahene	7-013	Ashe, Rachel	7-024
Aguda, Rachel	4-002	Asmus, Natalie	3-002
Ahamed, Amira	4-018	Assefa, Yonathan	1-004
Ahmed, Ayaan	1-003	Atallah-Yunes, Katerina	7-025
Ahmed, Shadin	7-014	Atanda, Fopefoluwa	2-002
Aickareth, Jacob	3-001	Atwell, James	3-062
Airas, Jacob	5-112	Azeem, Ayesha	7-124
Akinniyi, Sherifa	7-015	Backer, Annika	3-114
Akwue, Ifeoma	1-083	Bacorn, Mickayla	5-007
Alaniz, Miranda	5-078	Baffoe-Bonnie, Jude	1-085
Allen, Kiana	1-036	Bagchi, Meghna	5-008
Altenbern, Ava	5-002	Bagereka, Polycarpe	1-005
Altman, Kathryn	1-084	Baker, Greta	2-061
Alton, Hannah	3-059	Balaji, Rakshita	7-001
Alvarez de La Cruz, Astrid	7-016	Ball, Julia	1-038
Alvarez, Carolina	5-079	Banda, Noemi	1-086
Amini, Kayla	5-003	Baniewicz, Emily	3-115
An, Zixiao (Annie)	5-004	Banjoko, Olamide	5-009
Anaya, Eduardo	5-005	Bansal, Shivam	1-087
Andohkow, Tiffany	7-017	Bar, Lilly	8-001
Andrews, Stephen	7-018	Baral, Aneesha	8-134
Angeles, Benjamin	7-019	Baratam, Rithvik	2-003
Anhalt, Hanna	6-001	Bardhoshi, Amanda	1-088
Annaswamy, Shreyas	5-006	Barksdale, Melanie	5-010
Antony, Michelle	7-020	Barlow, Sydney	7-125

INDEX OF PARTICIPANTS

PRESENTER	#SESSION-POSTER	PRESENTER	#SESSION-POSTER
Barna, Lily	3-003	Bradley, Claire	7-037
Barnao, Kara	7-026	Bragg, Camryn	3-118
Barnett, Mackenzie	2-004	Brasington, Andrew	2-063
Barrett, Ivy	7-027	Bravver, Paula	5-022
Barrios, Marliece	5-011	Brewer, Amanda	5-085
Barry, Madeline	7-028	Brewer, Grace	5-023
Barsoum, Stephanie	2-005	Briand, Josephine	1-091
Bartole, Mattingly	3-063	Brill-Edwards, Nick	7-038
Bartsch, Caitlyn	1-089	Brim, Benjamin	7-039
Basu, Disa	2-006	Briseno, Said	5-024
Batcheller, Quinlan	1-039	Brown, Aleah	5-086
Bateman, Francis	1-006	Brown, Lauryn	7-040
Battaile, Jacqueline	7-029	Bruns, Nicolaus	3-067
Battelli, Francesca	1-007	Brush, Maiah	2-064
Bauer, Taran	7-030	Bryant, William	6-111
Bauman, Avery	3-116	Budinich, Reece	3-068
Baumgardner, Alexi	5-012	Buenaventura, Rand Gabriel	7-041
Bayo, Hulaimatou	1-008	Burbelo, Alexander	5-025
Beatson, Erica	7-031	Burkard, Nathaniel	4-022
Belel, Tasnim	5-013	Burnett, Matthew	5-026
Bell, Braden	7-032	Byers, Sophie	5-027
BergWood, Mikayla	4-020	Cai, Daniel	5-087
Berhanu, Sefanit	7-033	Calcagni, Michael	5-028
Berko, Owura	3-064	Callahan, Cian	7-042
Berland, Sarah	5-014	Cancel, Hector	3-119
Bernstein, Leah	6-002	Candy, Caroline	1-092
Beyene, Bethel	4-078	Canubas, Kenneth	7-043
Beyene, Samra	5-080	Cardona, Belmaliz	6-112
Bhagwat, Hrishikesh	4-021	Cargill, Casey	4-004
Bhakta, Aneesa	7-034	Carpenter, Olivia	4-023
Bhasin, Aarushi	7-035	Carrasco, Martin	8-002
Bhat, Vanya	5-081	Carson, Audrey	5-029
Bick, Daniella	1-009	Carter, Spencer	1-093
Billawala, Thalia	3-004	Castelino, Rithik	7-044
Biritwum, Benewaa	5-015	Castellanos, Diobenhi A.	3-120
Bishop, Devin	3-117	Castello Casta, Fabiola	5-030
Bjorgen, Jacob	5-016	Castroverde, Alexandra	7-045
Black, Shinelle	2-062	Catalano, William	5-031
Blanco-Rivera, Silvia	5-017	Cekada, Kyle	3-121
Bledsoe, Kelsey	5-018	Cerveney, Sydney	1-094
Block, Lucy	1-090	Chae, Yurim	3-069
Bloomer, Bess	5-082	Chand, Paras	3-070
Bluem, Amanda	8-120	Chang, Christine (Cece)	1-095
Bocetti, Julie	5-083	Chang, Kate	2-008
Bogacki, Erin	2-007	Chang, Loren	8-003
Boksa, Frank	6-110	Chaplin, My-Asia	1-010
Bomya, Zoji	5-019	Charles, Kailah	5-088
Bonbrest, Hannah	3-065	Chaudhry, Zan	1-041
Borden, Olivia	5-020	Chavannes, Ariana	1-096
Bouchard, Sabrina	5-084	Chen, Alex	7-046
Boukabara, Selim	3-066	Chen, Amanda	7-047
Boving, Aidan	5-021	Chen, Amy	4-005
Bowden, Cassidy	7-036	Chen, Emily	7-048
Boyd, Brooke	4-054	Chen, Ethan	6-135
Bradley, Avery	1-040	Chen, Jocelyn	5-089

INDEX OF PARTICIPANTS

PRESENTER	#SESSION-POSTER	PRESENTER	#SESSION-POSTER
Chen, Sean	3-122	Dembsky, Jordan	1-013
Chen, Tammy	5-032	Deng, Eilene	7-057
Chen, Tiffany	3-005	Dennen, Matthew	5-114
Chennupati, Dhearaj	7-049	Dennis, Abigail	7-058
Chiangong, Jolyna	7-002	Deshmukh, Rishi	3-124
Chin, Natalie	2-065	Deshpande, Meena	3-125
Cho, Yechan	1-042	Desporte, Tara	3-013
Choe, Allison	5-090	Deutsch, Douglas	3-072
Choi, Karena	3-006	Devabhaktuni, Anjali	7-059
Choi, Stephanie	3-123	Dickinson, Emma	5-039
Chopde, Ankita	5-033	Diouf, Fatimatou	5-092
Chou, Sophia	4-055	DiRico, Nicholas	5-040
Choutedjem, Anne-Cecile	7-050	Do, Terilyn	3-126
Chun, Ashley	1-097	Doan, Pearl	5-041
Chung, Christina	5-034	Dockman, Allison	7-060
Chung, Yevin	6-113	Doh, Serena	5-042
Cintron, Coralys	4-024	Donaldson, Abaigeal	3-127
Cisneros, Isabella	5-091	Dong, John	5-115
Claffey, Sinead	8-004	Dore, Katherine	3-128
Conrad, Cody	5-035	Doreswamy, Kruthika	1-014
Convertino, Natalie	7-051	Douglas-Jenkins, Juwaan	5-093
Conway, Isabella	6-114	Doverte, Alyssa	7-061
Coombs, Morgan	7-052	Duckett, Ariana	3-129
Cordova Amador, Isabel	3-007	Dulemba, Victoria	7-062
Cosey, Taylor	5-113	Dumm, Adaira	2-012
Coulanges, Chenia	3-008	Duncan, Eleanor	5-043
Coyle, Annabel	6-003	Duncan, Nicholas	5-044
Crayton, Chelsea	1-011	Durant, Olivia	6-005
Cregger, Kamryn	6-004	Durham, Ethan	2-013
Crisologo, Christian	5-036	Dwojak, Ewelina	5-094
Crocker, Amanda	1-012	Earleywine, Dahlia	3-073
Crow, Nevin	4-025	Early, Charlotte	3-014
Crowell, Anna	3-009	El Soufi, Hadil	6-006
Cui, Xiwen	7-053	Elbashir, Ibrahim	6-115
Culbert, Shannon	7-054	Elhabashy, Maryam	7-126
Cullins, Eve	4-026	Elkin, Lillian	5-116
Cureton, Raven	1-098	Englander, Noah	5-095
Curry, Fallon	3-071	English, Maya	6-116
D'Onofrio, David	3-010	Epstein-Shuman, Adam	5-045
Dadbhawala, Esha	1-099	Ertekin, Celine	3-130
Daminato, Madison	8-121	Eschman, Aleah	5-046
Damskey, Ekaterina	5-037	Esperanzate, Carl	3-015
Darden, Caleb	4-027	Essig, Sam	2-014
Dargan, Rachael	2-009	Ezuma-Ngwu, Mmasinachi	3-131
Daskalopoulos, Alexander	2-010	Fang, Wendy	7-063
Davey, Kuki	3-011	Fantini, Dalia	1-044
Davis, Brendon	1-043	Fanuzzi, Mia	7-064
Davis, Emma	7-055	Feigen, Emily	5-096
Davis, Griffin	7-056	Ferrier, Shelby	5-097
Davis, Kyndall	2-066	Fertil, Daphna	8-122
Davis, Rachel	5-038	Filbrandt, Peter	5-047
Davy, Ciciely	3-012	Fiore, Jack	5-048
Dawkins, Marshall	2-011	Fishman, Ryan	5-098
de Jesus Vega, Marcel	4-028	Fletcher, Taylor	6-007
Dean, Joshua	1-100	Flynn, Fiona	7-065

INDEX OF PARTICIPANTS

PRESENTER	#SESSION-POSTER	PRESENTER	#SESSION-POSTER
Fong, Eugene	2-015	Gould, Mory	7-075
Foote, Maxwell	4-006	Grant-Bier, Jessalyn	2-069
Forbes, Greta	7-066	Green, Courtney	5-064
Ford, Morgan	4-029	Greene, Ben	6-008
Forrest, Euan	1-015	Greene, Danielle	3-133
Forsberg, Alisa	5-049	Greenwald, Matthew	3-134
Fortun, William	7-003	Greig, Erin	2-019
Foss, Kelcie	7-067	Grewal, Jaskaran	3-135
Fox, Madison	5-050	Grieshaber, Ailis	2-070
Francis, Julia	7-068	Griffin-Baldwin, Emmett	2-071
Frank, Julia	8-123	Griffin, Ryleigh	4-056
Franklin, Jamirra	7-069	Gross, Danielle	5-102
Freaney, Michael	4-030	Grote, Hannah	1-104
Fried, Zachary	3-074	Gu, Grace	1-105
Friend, Kip	5-051	Guo, Alex	2-020
Fu, Lynn	7-070	Guo, Emily	7-076
Fuchs, Kathleen	2-016	Gupta, Meenakshi	2-072
Fussell, Sloane	5-052	Gupta, Meera	1-017
Gallagher, Eric	5-099	Hadj-Mabrouk, Dwina	1-106
Gamadia, Bianca	6-117	Haeffner, Clara	1-107
Garchitorena, Kathleen	7-071	Hafermann, Halla	1-108
Garcia, Jonathan	7-004	Hailemeskel, Ruth	7-127
Gardner, Anna	1-016	Halfeld, Marcelle	4-033
Gareza, Franz	4-079	Hall, Lizzie	4-034
Gaskin, Deanna	1-045	Hall, Mckenzie	8-006
Gaudian, Kelly	7-072	Hallaert, Patrick	4-057
Geesey, Brendan	5-053	Halliday, Amanda	1-109
George, Tony	5-100	Hammond, Micala	4-058
Georgescu, Michael	2-017	Hampton, Amanda	8-007
Gephart, Isabel	1-101	Hanner, Kelly	5-055
Gera, Yugantar	3-075	Harkins, Haley	1-110
Getachew, Beyonce	3-076	Harrell, Ariayana	5-119
Ghodrati, Saba	7-005	Harrison, Jonathan	2-073
Ghorab, Laila	3-016	Haryanto, Christian	7-077
Gibson, Kianna	3-132	Haugland, Jin	3-136
Gill, Jason	1-046	Hausmann, Elena	8-008
Gillis, Meredith	3-017	Hawthorne, Hope	5-120
Gime, Suri	2-018	Hehn, Alexandra	1-111
Gin, Ashley	1-047	Heidebrink, Gretchen	7-078
Gittens, Tristen	7-073	Heller, Eliezer	5-056
Glanzberg, Joseph	3-077	Henein, Noelle	3-079
Glaros, Sophia	2-067	Henry-Smith, Charnae	2-021
Glass, Morgan	7-074	Herberholz, Emily	3-080
Glasstetter, Logan	3-018	Hernandez Perez, Carmen	7-079
Glorius, Jared	5-117	Hernandez Rivera, Israel	4-080
Gobo, Victoria	1-102	Hernandez, Madison	3-020
Goel, Abhishek	5-118	Heron, Christopher	7-080
Goff, Jeff	4-031	Herr, Lauren	2-022
Goldbaum, Danielle	3-078	Herur, Rohan	1-048
Goldberg, Lily	3-019	Heyen, Nathan	7-081
Goldschlager, Jess	4-032	Hicks, Alexandra	3-081
Goldschmidt, Abby	2-068	Hicks, Chloe	5-057
Gonzales, Jada	5-101	Hicks, Jordan	4-059
González-Pedraza, Marcel	1-103	Hicks, Shelby	1-049
Gottschalk, Robert	8-005	Hill, Justine	8-135

INDEX OF PARTICIPANTS

PRESENTER	#SESSION-POSTER	PRESENTER	#SESSION-POSTER
Hilliard, Anna	3-021	Jiang, Andrew	5-066
Hissein, Israa	5-121	Jidaan, Taeen	5-106
Hnath, Emily	7-082	Jiwnani, Neal	7-095
Hoang, Chloe	7-083	Johnson, Hailey	5-067
Hoang, Le	7-084	Johnson, Morgan	7-096
Hockens, Clio	5-103	Johnson, Riley	3-026
Hoey, Samantha	4-035	Johri, Mohini	4-087
Hoffman, Samantha	3-082	Jones, Claire	3-086
Hollis, Melanie	5-104	Jones, Jeremiah	5-107
Holton, Anika	3-084	Joseph, Benjamin	1-052
Horan-Portelance, Liam	2-023	Joseph, Thea	1-053
Hospes, Katrina	3-137	Josyula, Krishna	4-088
Hossain, Mahin	3-022	Julmeus, Kaelyn	7-097
Hosuru, Rohan	1-050	Jung, Raina	7-098
Hotobah-During, Olympia	5-058	Kaegi, Zoe	1-117
Hsiao-Sánchez, Nicole	7-085	Kajdic, Amra	3-027
Hsieh, Emory	7-086	Kalmadi, Nisha	7-099
Hu, Kevin	3-138	Kambara, Manoj	7-128
Huang, Annabelle	5-059	Kane, Alexander	7-100
Huang, Jenny	5-105	Kaneshiro, Amy	4-061
Huefner, Eliza	2-074	Kanetkar, Sylee	4-089
Huffcutt, Patrick	5-060	Kang, Eulim	2-026
Huguely, Caitlin	7-087	Kang, Jasdeep	7-006
Huillca-Jara, Katheryn	2-024	Karim, Zuena	7-101
Hunt, Joanne	5-061	Karlin, Hannah	1-054
Hunter, Tayla	2-025	Karolczak, Eva	2-078
Huo, Qianyu	1-112	Kaschak, Erika	7-102
Hurston, Jamaica	2-075	Kato, Rintaro	8-009
Hurtado-Thiele, Mae Ellen	7-088	Katz, Caroline	2-079
Hussaini, Sana	7-089	Katz, Griffin	5-108
Hutchins, Laura	7-090	Kauss, McKenzie	7-103
Ibargüen, Sophia	4-007	Kavuturu, Aditya	7-104
Illesley, Anne	1-113	Kazi, Abeni	7-105
Inanoglu, Silanur	1-114	Kazimuddin, Habeeb	4-090
Ioh, Makana	7-091	Kearney, Jessica	4-091
Isaac, Jeremiah	2-076	Kelemen, Anna	1-118
Isaak, Armond	7-092	Kelemen, Lilly	1-119
Islam Souleimanova, Sharmin	3-084	Kent, Tristan	6-119
Isman, Kelsey	3-085	Khan, Taaseen	3-087
Israel, Elianna	3-139	Khorrami, Noah	5-068
Iturralde Guerrero, Annette	3-023	Kilgore, Benjamin	3-088
Ives, Lea	1-115	Kilnagar, Avaneesh	7-106
Izu, Jaily	1-116	Kim, Hannah (NIDA)	3-089
Jabari, Erfan	6-118	Kim, Hannah (NCI)	7-107
Jackson, Tiffany	3-024	Kim, Joshua (NIA)	2-027
Jaeggi-Wong, Anna	5-062	Kim, Joshua (NIBIB)	8-124
Jaimes, Angel	2-077	Kim, Paul	4-062
Jakubczak, Ben	5-063	Kim, Yehyun (Abby)	5-109
James, Heera	5-064	Kim, Young	5-110
Jarvis, Jordan	4-060	King, Diana	1-018
Jayatissa, Nipun	1-051	King, Lillian	1-019
Jean, Josephine	5-065	Kirkland, Jamiya	6-120
Jetmore, Jillian	3-025	Kitakule, Abigail	5-122
Jewell, Connor	7-093	Klaisner, Sydney	2-028
Jia, Katrina	7-094	Kleve, Josephine	1-120

INDEX OF PARTICIPANTS

PRESENTER	#SESSION-POSTER	PRESENTER	#SESSION-POSTER
Knabe, Lauren	1-055	LeFort, Karli	4-037
Koch, Megan	5-069	Lelling, Sayer	7-120
Koide, Teddy	4-036	Lemezis, Brendan	5-072
Komjathy, David	7-108	Lesko, Erica	6-077
Koretsky, Adrian	4-092	Levesque, Cassandra	1-124
Korrapati, Anantha	2-029	Lewis, Connor	3-032
Kosmeder, Emma	7-109	Lewis, Kolin	1-125
Kotru, Arushi	8-125	Li, Evelyn	1-020
Kovour, Mounisha	2-030	Li, Keefer	2-033
Kreps, Lily	6-136	Li, Taylor	1-126
Krikorian, Georgia	5-111	Lichtenfeld, Maxwell	4-095
Krishna, Shriya	7-110	Liedtke, Erin	7-130
Kucevic, Elisa	3-028	Liew, Michael	4-010
Kulchar, Rachel	6-121	Lildharrie, Christina	4-038
Kulkarni, Akhil	3-029	Lin, Sabrina	3-092
Kun, Julia	1-056	Lin, Sheryl	4-096
Kunamaneni, Prasanthi	1-057	Lines, Maya	7-121
Kuo, Jessica	3-090	Linz, Emily	3-093
Kusi, Nana	7-111	Lipetzky, Sophia	1-127
Kwarteng, Michelle	8-126	Liu, Anne	7-122
Kwon, Kathleen	2-080	Liu, Michael	1-128
Kwong, Zeeyong	6-009	Lloyd, Eliza	6-078
Labrador, Jarod	7-112	Lo, Ashley	1-129
Lais, Peter	5-123	Locke, Ciara	7-123
Lam, Vincent	7-129	Loew, Sarah	8-015
Landreth, Mackenzie	3-030	Lofgren, Mariah	5-073
Landry, Katherine	4-093	Lombardo, Alexandra	4-097
Lane, Ethan	6-122	London, Evan	1-060
Lang, Zabrina	7-113	Longmore, Kaylah	8-016
LaPoint, Hannah	7-114	Lopez-Nava, Jorge	8-017
LaPoint, Phoebe	5-070	Lopez, Lucas	5-074
Laporte, John	2-031	Lord, Jennifer	4-098
Lara, Alexander	6-123	Lowrie, Matthew	1-130
Larbi, Maya	7-115	Lu, Michael	1-061
LaRoche, Madison	3-031	Lubben, Berit	4-099
Larsen, Isabella	1-121	Lucero, Samuel	3-094
Lasky-Nielson, Noah	4-008	Luo, Michelle	8-018
Latifi, Laila	7-116	Luttrell, Delores	4-100
Lawton, Sydney	4-094	Lynch, Nicolas	5-075
Layton, Daniel	2-081	Ma, Charis	3-033
Le, Andreanna	4-009	Ma, James	8-019
Le, Anh	1-058	Macaraeg, Aisling	6-079
Le, Randy	6-074	MacDonald, Nthabeleng	8-020
LeBlanc, Benjamin	6-124	MacKenzie, Morgan	4-063
LeBlanc, Lillian	5-071	Madden, Caitlin	7-007
Lee, Adrian	1-122	Mahmud, Rohaan	6-010
Lee, Jiwon	2-032	Maisha, Sharaf	6-080
Lee, Julie	7-117	Maitland, Alexander	3-095
Lee, Melody	7-118	Majid, Alina	8-021
Lee, Nicole	1-123	Makarewicz, Andrew	2-082
Lee, Peyton	6-075	Malek, Rory	6-011
Lee, Samantha	3-091	Malespini, Sebastian	8-022
Lee, Sean	6-076	Malhotra, Sahil	4-101
Lee, Simone	1-059	Managoli, Madhura	8-023
Lee, Un Sun	7-119	Manalang, Kimberly	6-012

INDEX OF PARTICIPANTS

PRESENTER	#SESSION-POSTER	PRESENTER	#SESSION-POSTER
Mandel, Ava	4-102	Moffat, Rebecca	8-038
Mangalapalli, Henry	1-062	Mohamed, Abucar	6-084
Mann, Nathan	1-131	Mokhasi, Neha	2-087
Mann, Puneet	8-024	Montague Redecke, Skylar	5-125
Manning, Maegan	6-013	Mook, Danielle	2-035
Mansell, Erin	3-034	Morakinyo, Ebunoluwa	4-105
Marcin, Alexandra	8-025	Moran, Mark	3-037
Marelli, Julia	1-063	Moreno, Eries Jay	1-066
Marks, Meagan	4-039	Morgan, Jaida	2-036
Marquardt, Charles	8-026	Morisaki, Keita	4-042
Martinez Aceves, Celia	6-081	Mosley, Sophie	4-043
Martinez Osorno, Alondra	8-027	Mossington, Thomas	8-039
Marzouk, Marinza	4-040	Mosunmade, Ruth	7-008
Maslanka, Carolyn	8-028	Motter, Allyson	3-038
Massa, Pedro	8-010	Moussa, Nicole	3-097
Mastoor, Yusuf	1-064	Movahed Abtahi, Ava	6-126
Masuda, Tyler	8-029	Muhammad, Nia	6-127
Mathivannan, Neelan	1-132	Mukhi, Priya	3-039
Matthews, Aniah	3-097	Murray, Angel	3-040
Mattu, Nikhil	1-065	Musai, Jon	4-065
McCulloch, Kade	3-035	Mustamand, Marzia	6-020
McDonald, Taylor	4-103	Mutersbaugh, John	6-085
McFadden, Jason	3-036	Mylvara, Avani	6-086
McGee, Taylor	6-014	Najmabadi, Rojin	6-021
McIver, Bennett Ann	8-030	Nambiar, Divya	8-040
McKallip, Rilyn	8-031	Narnur, Pranav	1-135
McKim, Quenelle	6-015	Nativio, Gustavo	6-022
McKinney, Amira-Nuriya	6-016	Nawal, Nafisa	4-044
McLellan, Ryan	8-032	Naylor, Emily	6-128
McQueen, Daizsah	6-125	Nayyar, Himani	2-037
Mekonnen, Tsion	8-033	Negrete, Daniela	6-023
Melendez Fernandez, Keren	4-011	Nelson, Ariana	8-041
Melnyk, Mattie	6-017	Nemmers, London	6-024
Meltzer, Jasmine	4-064	Neugebauer, Benjamin	7-009
Mendoza Pardo, Ale	1-133	Newen, Anna	8-042
Menendez Escalera, Daviana L.	2-083	Nguyen, Andrew (CC)	1-022
Menkart, Matthew	2-084	Nguyen, Andrew (NINDS)	4-106
Menold, Matthew	6-082	Nguyen, Austin	5-126
Merai, Ritika	1-134	Nguyen, Katelyn	6-025
Mesch, Kendall	8-011	Nguyen, Kilyna	8-043
Mesecar, Monica	2-034	Nguyen, Ngoc Thuy	8-044
Messenger, Eva	2-085	Nguyen, Nicole	2-088
Metellus, Rebecca	1-021	Nguyen, Tiffany	6-129
Meyer, David	5-124	Nguyen, Tony	2-038
Meyer, Heidi	4-041	Niazi, Bilal	8-045
Milhon, Paige	8-034	Nirula, Michael	8-046
Miller, Jenna	8-012	Nnamdi, Gift	1-136
Miltenberger, Emily	6-018	Noel, Hunter	8-047
Miltko, Molly	6-019	Noh, Chloe	1-137
Minin, Jacob	8-035	Novik, Shoshana	4-107
Miraftab, Mona	8-036	Nunez, Katie	6-026
Misciagna, Alexandra	8-037	Nusraty, Sabrina	4-108
Misra, Jahan	4-104	Nwagugo, Favour	8-048
Mital, Vibha	2-086	O'Neill, Christopher	4-066
Modak, Avani	6-083	O'Reilly, Patrick	6-087

INDEX OF PARTICIPANTS

PRESENTER	#SESSION-POSTER	PRESENTER	#SESSION-POSTER
O'Shea, Tara	8-049	Pinto, Yoav	6-038
Odom, Hannah	4-081	Pintuff, Aidan	3-043
Ogordi, Gloria	7-010	Pitts, Kayla	3-102
Ogunsanya, Temiloluwa	1-067	Pope, Eleanor	8-054
Okereke, Ada	2-039	Porche, Sarah	8-127
Olivencia Álvarez, Erixberto	5-127	Potticary, Abigail	4-111
Olmsted, Samantha	2-089	Powell, Avril	5-131
Olsen-Dufour, Amanda	2-110	Praiss, Lauren	6-039
Olubo, Simone	6-027	Prevedel, John	6-089
Oo, Henry	3-098	Prosper Santiago, Jean	6-090
Oringher, Jenna	2-090	Pruitt, Caroline	8-055
Ortiz Morales, Johan A.	6-028	Pugh, Aaron	6-040
Osseyi, Pamela	3-099	Pursley, Aidan	8-056
Ostergren, Sophia	4-109	Puthan, Amit	6-091
Otadi, Ali	4-012	Putti, Amanda	2-093
Otoo, Deirdre	6-029	Qamar, Purnima	2-114
Owusu-Ansah, Darryl	1-023	Qiang, Amy	2-046
Owusu-Ansah, Kofi	8-013	Qiu, Yishu	2-094
Oyebola, Oluwaseyi	2-040	Quam, Annika	3-103
Oyinloye, Precious	3-100	Quan, Alex	8-057
Packer, Benjamin	2-041	Quiroz, Elvis	5-132
Padhi, Shalika	6-088	Rafi, Rebeka	1-068
Padilla Rolon, Darwing	6-030	Rahim, Rodaba	6-041
Pailla, Sravya	6-130	Raikwar, Prateek	4-082
Paine, Alden	6-031	Rainey, Ashley	8-058
Palmer, Chloe	4-067	Rajhans, Shreya	8-059
Palmer, Rachel	6-032	Rajna, Ruwaida	8-060
Pamie-George, Matilah	2-111	Ralph, Bianca	6-042
Pan, Felix	2-042	Rama Varma, Anagha	8-128
Park, Caleb	3-101	Ramirez-Renta, Gabriela	3-044
Park, Christina	2-091	Ramkumar, Arthi	6-043
Park, Jinhyeok	2-043	Ramos, Nicole	8-061
Parker, Cokie	6-033	Rana, Neha	8-062
Parks, Richard	6-034	Rao, Kevin	1-024
Patel, Krishna	8-050	Rault-Wang, Juliette	8-063
Patel, Megha	6-131	Ravi, Priyanka	6-092
Patel, Nidhi	2-044	Raymond, Caroline	2-113
Pathapadu, Ananya	4-013	Raymond, Cassandra	2-114
Patterson, Antonio	5-128	Redler, Jansen	8-064
Patterson, Katherine	4-014	Redmond, Jared	3-045
Patwardhan, Geetika	4-110	Reed, Quinton	2-047
Paul, Oindrila	5-129	Rehman, Abid	2-048
Paul, Wiljeen	3-041	Reitz, Joshua	4-046
Perez, Jennifer	2-045	Reuveni, Noa	4-047
Perez, Maira	5-130	Reynolds, Sandy	1-069
Perlstein, Tyler	4-045	Rhoads, Cosette	2-115
Perritano, Christine	6-035	Riccobono, Gavin	2-049
Perry, Jillian	6-036	Ridley, Lauryn	6-044
Peterson, Crystal	3-042	Riley, Deanna	8-065
Pham, Ethan	2-092	Rinaldi, Kristina	8-066
Pham, Lisette	8-051	Robichaux, Kobe	1-025
Pierotti, Caroline	7-011	Robins, Pei	2-116
Pietrow, Rachel	6-037	Robison, Will	2-117
Pillai, Dhruv	8-052	Rocha De Abreu, Isadora	6-093
Pillai, Gopika	8-053	Rodgers, Megan	6-045

INDEX OF PARTICIPANTS

PRESENTER	#SESSION-POSTER	PRESENTER	#SESSION-POSTER
Rodriguez Rivera, Tatiana	.2-050	Shamroukh, Habiba	1-074
Rodriguez, Phelix	2-118	Shamsian, Kimia	8-014
Roeder, Peyton	6-046	Shao, Jiayu	2-123
Roegner, Morgan	6-094	Shapiro, Sydney	2-102
Rogers, Breanna	7-131	Sharma, Swati	8-074
Romero Soto, Hector	6-047	Sheehan-Klenk, Julia	8-075
Rong, Howard	8-067	Sheng, Tao	1-028
Rosas, Virginia	2-095	Shepard, Sam	6-053
Ross, Nathanyal	2-119	Shepard, Starlina	4-114
Roszczyk, Adam	2-096	Sheridan, Aurora	4-050
Roybal, Melissa	2-120	Sherwood, Kai	7-012
Rubin, Maxine	8-068	Shi, Tesia	2-124
Rubin, Sarah	6-048	Shin, Ashley	6-137
Ruhde, Ryan	2-121	Shin, Jonathan	6-054
Runyan, Rose	6-095	Shivshankar, Samay	4-051
Ruppert, Kathryn	2-097	Showler, Meredith	8-076
Ryan, Daniel	8-069	Siddiqui, Aamna	8-077
Rytel, Krystyna	3-046	Silberman, Julia	6-098
Sabbineni, Sashank	8-070	Silva, Kavisha	1-075
Sagun, Jeffrey	8-071	Simmonds, Nellie	2-125
Saha, Pritha	4-112	Singh, Priya	2-103
Sahni, Sahil	8-072	Siroty, Matt	6-099
Saintilus, Mayra	7-135	Sisay, Elelta	8-078
Saleem, Zillay	8-129	Sivapiromrat, Alisa	8-079
Sanchez Rivera, Celiann	6-049	Skinner, Morgan	1-076
Sanchez-Mendoza, Daniel	4-015	Skovorodnev, Victoria	6-055
Sanchez, Gabriel	2-098	Slattery, Kaitlynn	8-080
Sandler, Dana	1-070	Slekar, Alana	6-132
Sands, LeeOdella	3-104	Sloane, Jessica	4-052
Sanehira, Chad	2-051	Smith, Ginger	4-115
SanGiovanni, Daniel	1-071	Smith, Kate	2-054
Sasson, Noa	1-026	Snyder, Kirsten	4-116
Sathish, Shruti	6-050	Sodager, Asma	6-100
Sauer, Peter	3-047	Soliman, Marlaine	8-081
Sawhney, Hiya	6-096	Soliman, Monica	1-029
Sayed, Mariam	2-099	Sollenberger, Christopher	2-104
Scalabrini, Jonathan	1-072	Son, Annie	1-077
Schaffer, Ethan	2-052	Sona, Melanie	7-132
Schauer, Anne	2-100	Song, Miranda	1-030
Schlein, Melissa	3-048	Soni, Bhavya	8-082
Schneps, Heather	4-113	Sousa, Megan	6-101
Schratz, Daniel	4-048	Spain, Karrie	8-083
Schulman, Annie	1-027	Spears, Kathryn	3-052
Scobell, Sophie	3-049	Spurney, Megan	2-126
Scrabis, Mia	2-122	Sreejithkumar, Vivek	6-056
Seddighi, Diba	3-050	Srinivasan, Leela	4-117
Sellner, Carter	8-073	Srinivasan, Sanjana	8-130
Selser, John	3-051	Srinivasan, Sruthi	6-057
Semancik, Christopher	6-051	Srinivasan, Subhiksha	4-118
Sempowski, Benjamin	6-097	Stack, Emily	4-119
Semseddin, Janan	2-101	Stack, Hannah	8-084
Shaffer, Samantha	1-073	Stallone, Jariatu	5-133
Shah, Amay	6-052	Stasser de Gonzalez, Regina	6-102
Shah, Ishaan	2-053	Staszewski, Melanie	2-127
Shah, Rishika	4-049	Steinberg, Isabel	6-058

INDEX OF PARTICIPANTS

PRESENTER	#SESSION-POSTER	PRESENTER	#SESSION-POSTER
Stepp, Hannah	8-085	Tulloch, Andre	6-106
Stevenson, Shaun	2-055	Tuska, Becca	2-107
Stewart, Alanna	5-134	Twohig, Joe	8-094
Stohr, Grace	2-128	Ty, Sophia	8-095
Stolpman, Milan	4-068	Tyndall, Caroline	8-096
Stoner, Ryan	6-103	Ukpong, Emem	3-107
Stonick, Karyssa	4-069	Umanzor, Lesly	4-085
Stukes, Ian	8-086	Unthank, Jonah	8-097
Suddaby, Reid	4-120	Vadakath, Rahul	8-098
Suh, Grace	4-070	Valley, Emily	1-079
Sukin, Charles	1-031	Van Doorn, Jinny	4-075
Sullivan, Catrina	4-121	Varea, Isabella	1-080
Sun, Roy	4-122	Varma, Pooja	7-137
Suvarna, Chetana	6-104	Vaughan, Erik	4-128
Swaminathan, Ananya	2-129	Vazquez-Ramirez, Leeanne	1-034
Swiggard, Liam	2-130	Vela, Alexandra	6-061
Sy, Yaye	6-059	Vemuri, Charan	8-099
Syed, Shareef	6-133	Vierling, Tia	5-136
Sylvester, McKella	4-071	Vitale, Giana	8-100
Tadesse, Yommi	4-083	Voirin, Charlie	6-062
Talley, Taylor	4-072	Volkman, Rachael	4-129
Tandilashvili, Elizabeth	2-131	Wakeman, Michael	7-133
Tang, Kristina	6-060	Walker, Alexandra	2-108
Tang, Willis	2-105	Walmsley, Dylan	4-017
Tangen, Anne Claire	8-136	Walsh, Andrew	4-130
Tanzillo, Anthony	6-105	Walters, Brianna	4-086
Taylor, Milo	4-123	Wang, Danyi	6-063
Teehan, Devin	4-073	Wang, Yuewen	3-108
Tesi, Noelle	8-087	Wcislak, Anna	4-131
Thaivalappil, Abhirami	3-053	Webber, Jonathan	6-064
Thao, Eve	3-105	Webster-Bass, Spencer	2-133
Thomas, DaNashia	5-135	Welsh, Julia	3-109
Thommana, Ashley	4-124	Weng, Sally	2-138
Thompson, William	7-136	Wertz, Samuel	6-065
Thorkelsdottir, Gudrun	8-088	West, Timothy	8-101
Thota, Srijan	4-125	White, Karley	8-102
Tian, Hao Dong	1-078	Whittaker, Stella	4-132
Tillman, Alaina	2-132	Wiley, Emma	5-137
Tiwari, Rhea	2-056	Wilkerson, Miciah	4-133
Toay, Sarah	4-016	Wilkinson, Joel	1-035
Tonk, Rohan	4-084	Williams-Rogers, Cassia	3-055
Tortozza, Daniela	4-126	Wilson, Danielle	4-134
Tovar, Kevin	4-074	Wilson, Kari	8-103
Townley, James	1-032	Winefeld, Gila	2-134
Tracey, Britney	2-106	Winful, Ewurakua	2-135
Tran, Haley	8-089	Wingfield, Charli	2-109
Tran, Han	8-131	Witterholt, Matthew	8-104
Traynor, Roshini	1-033	Wojcik, Kaitlyn	7-134
Treco, Emma	8-090	Wolchok, Rachel	3-110
Tremble, Kaitlyn	8-091	Wolfe, Mya	6-107
Tressler, Elizabeth	3-106	Wolfenson, Zoe	3-056
Truong, Tri	8-092	Won, Sung Joon	3-111
Tucker, Katherine	4-127	Wong, Zalman	8-105
Tuckey, Olivia	8-093	Woods, Kamron	6-066
Tufa, Yeabsira	3-054	Woods, Kareem	3-112

INDEX OF PARTICIPANTS

PRESENTER	#SESSION-POSTER	PRESENTER	#SESSION-POSTER
Wozniak, Aaron	4-053	Zacharias, Rianna	4-137
Wright, Destiny	2-136	Zacuto, Rebecca	8-112
Wu, Lingyuan	6-067	Zainab, Rida	6-108
Wu, Monica	6-068	Zajmi, Ujana	4-076
Wu, Nancy	1-081	Zarccone, Maria	3-113
Xia, Clarissa	4-135	Zdunek, Anna	2-139
Xiong, Knaunong	6-069	Zelmanovich, Danny	8-113
Xu, Amy	2-137	Zhang, Andrew	6-134
Xu, Emily	8-106	Zhang, Flora	8-114
Yamine, Michaela	1-082	Zhang, Samuel	8-133
Yanez, Anthony	4-136	Zhao, David	8-115
Yang, Nicole	2-057	Zheng, Dia	8-116
Yang, Rachel	8-107	Zheng, Dinie	3-057
Yang, Zijie (Jed)	8-132	Zhou, Keri	8-117
Yeboah, Sheila	6-070	Zhu, Maria	6-072
Yellapragada, Srujana	8-108	Zhu, Xiao Bin	8-118
Yewah, Jemison	6-138	Zhuang, Sophie	8-119
Yon, Joshua	8-109	Ziff, Zohar	6-073
Youngblood, Emily	6-071	Zonnefeld, Alexandra	2-058
Yu, Amy	8-110	Zou, Ainslee	2-059
Yuen, Madeline	8-111	Zweibaum, David	2-060

Wednesday, May 1, 2024

Session 1: 9:30 a.m. – 10:45 a.m. (ET) (Posters 1-001 – 1-138)

CC – Clinical Center (Posters 1-001 – 1-035)

1-001. Kwabena Aboagye

Noonan's Syndrome

Howard University (District of Columbia)

Preceptor: Dr. Sarah Sheppard

1-002. Heritage Adetola

In Vitro Inhibition of ADAM-17 Reverses Unconventional NK Cell Expansion in Severe COVID-19

Cornell University (New York)

Preceptors: Dr. Daniel Chertow, Dr. Andrew Platt

1-003. Ayaan Ahmed

Dietary Intake Patterns and Ultra-Processed Food (UPF) Consumption of Colorectal Cancer Patients and Their Caregivers

Northwestern University (Illinois)

Preceptor: Dr. Jennifer Barb-Smith

1-004. Yonathan Assefa

A Pilot Study Assessing Shear Wave Elastography's Potential As A Biomarker in Spinal-Bulbar & Muscular Atrophy

George Mason University (Virginia)

Preceptor: Dr. Jay Shah

1-005. Polycarpe Bagereka

The effect of a combined Nature-Based and Audio-Based Virtual Mindfulness intervention on the psychosocial-spiritual wellbeing of frontline COVID-19 healthcare workers

Carleton Colleg (Minnesota)

Preceptor: Dr. Ann Berger

1-006. Francis Bateman

Simulating Extended Dosing Intervals for Atezolizumab: A Comparative Analysis Between NONMEM and Pumas

State University of New York at Binghamton (New York)

Preceptor: Dr. William Figg

1-007. Francesca Battelli

Evaluating the effect of Ebola virus shed surface glycoprotein on neutrophil effector functions

Georgetown University (District of Columbia)

Preceptors: Dr. Daniel Chertow, Dr. Kevin Vannella

* Denotes that poster number was updated after the index was completed

1-008. Hulaimatou Bayo

Evaluating Human Microglia in NSGS mice humanized with CD34+ CARD9 Deficient Patient Cells Corrected with Lentiviral Gene Therapy

University of Miami (Florida)

Preceptors: Dr. Elizabeth Kang, Dr. Harry Malech

1-009. Daniella Bick

Comprehensive characterization of male infertility in patients with classic congenital adrenal hyperplasia: The role of emerging steroid biomarkers

Columbia University (New York)

Preceptors: Dr. Sonal Vaid, Dr. Deborah Merke

1-010. My-Asia Chaplin

Increasing Blood Diversity: How Blood Center Websites Tackle Critical Blood Shortages for Sickle Cell Patients through Recruitment of African-American Donors

University of Maryland (Maryland)

Preceptor: Dr. Kamille West-Mitchell

1-011. Chelsea Crayton

A Journey in Backtranslation: From Community Oral Health to Salivary Biomarkers in Individuals with Alcohol Use Disorder

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Katherine Maki, Dr. Gwenyth Wallen

1-012. Amanda Crocker

Abdominal low-intensity pulsed ultrasound treatment slows tumor growth and modulates gene expression in mouse breast cancer models

Lafayette College (Pennsylvania)

Preceptors: Dr. Scott Burks, Dr. Parwathy Chandran, Dr. Joseph Frank

1-013. Jordan Dembsky

Feasibility of Gait Event Detection from Thigh Segment Kinematics in Children with Cerebral Palsy

Northwestern University (Illinois)

Preceptor: Dr. Thomas Bulea

1-014. Kruthika Doreswamy

Spinal Bulbar Muscular Atrophy (SBMA): A longitudinal analysis of wearable sensors during the 6-minute walk test (6MWT)

University of Pittsburgh (Pennsylvania)

Preceptor: Dr. Minal Jain

1-015. Euan Forrest

Multiplanar Humeral Shape Changes from Infancy to Adulthood in Obstetric Brachial Plexus Palsy

Lehigh University (Pennsylvania)

Preceptors: Dr. Frances Gavelli, Dr. Katherine Alter

* Denotes that poster number was updated after the index was completed

1-016. Anna Gardner

Brain Cytokine Levels in the Townes Mouse Model of Sickle Cell Disease

University of Rochester (New York)

Preceptors: Dr. Zenaide Quezado, Dr. Luis Almeida

1-017. Meera Gupta

The Use of Computerized Posturography in the balance evaluation and intervention of a patient with HIV and PML: A Case Report

Pennsylvania State University (Pennsylvania)

Preceptors: Dr. Joan Elliott, Mr. Joseph Shrader

1-018. Diana King

Molecular-cellular Analysis of Macrophage-like Perineural Cells in Human Dorsal Root Ganglion Tissue

Johns Hopkins University (Maryland)

Preceptors: Dr. Andrew Mannes, Dr. Michael Iadarola

1-019. William Holland*

CT Liver Radiomic Features of Lassa Virus Infection in Nonhuman Primates

George Mason University (Virginia)

Preceptor: Dr. Joseph Frank

1-020. Evelyn Li

Mapping the Nociceptive Secretome from Human Incisional Skin Samples Collected During Long Thoracic Surgery

Vassar College (New York)

Preceptors: Dr. Andrew Mannes, Dr. Michael Iadarola

1-021. Rebecca Metellus

Relationship between dietary intakes and Interleukin-10 levels in adults living with Sickle Cell Disease (SCD)

University of Delaware (Delaware)

Preceptor: Dr. Nicole Farmer

1-022. Andrew Nguyen

Automated Measurement of Pericoronary Adipose Tissue Attenuation and Volume in CT Angiography

Tufts University School of Medicine (Massachusetts)

Preceptors: Dr. Jianfei Liu, Dr. Tejas Mathai

1-023. Darryl Owusu-Ansah

Assessing the Impact of Cell Isolation Methods on Gene Expression in CD19+ B cells Using Next Generation Sequencing

Old Dominion University (Virginia)

Preceptors: Dr. Valeria DeGiorgi, Dr. Amanda Henning

1-024. Kevin Rao

Design and Testing of a Robotic Apparatus to Characterize Sensitivity to Deep Pressure Stimuli

Johns Hopkins University (Maryland)

Preceptor: Dr. Thomas Bulea

* Denotes that poster number was updated after the index was completed

1-025. Kobe Robichaux

Detection of Hepatitis C Virus within human peripheral B cells using RNAscope

University of South Florida (Florida)

Preceptors: Dr. Valeria de Giorgi, Dr. Amanda Henning

1-026. Noa Sasson

Exploring the Potential of GPT in Generating Synthetic Clinical Notes with Functioning Information

University of California-Santa Barbara (California)

Preceptors: Dr. Leighton Chan, Ms. Julia Porcino

1-027. Annie Schulman

Identification of microRNA expression signatures within a large cohort of patients with congenital adrenal hyperplasia

Colby College (Maine)

Preceptors: Dr. Vipula Kolli, Dr. Deborah Merke

1-028. Tao Sheng

Automated Detection and Segmentation of Osteoblastic and Osteolytic Bone Lesions in CT

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Tejas Mathai, Dr. Ronald Summers

1-029. Monica Soliman

Effects of Elliptical Training Intensity on Cognitive and Motor Function in Adults with Chronic Traumatic Brain Injury

University of California, Los Angeles (California)

Preceptor: Dr. Diane Damiano

1-030. Miranda Song

Radiomics-guided biopsy: A pilot study in machine learning-based prediction of tumor biopsy quality from radiomics features

University of California, San Diego (California)

Preceptor: Dr. Bradford Wood

1-031. Charles Sukin

CAHQ: first validated disease-specific patient reported outcome instrument for congenital adrenal hyperplasia

Georgetown University (District of Columbia)

Preceptors: Dr. Deborah Merke, Dr. Myrto Flokas

1-032. James Townley

*Exploring in vitro fungicidal kinetics of combining Low Intensity Ultrasound with antifungal using *Candida albicans**

Gonzaga University (Washington)

Preceptors: Dr. Sichen Liu, Dr. Joseph Frank

* Denotes that poster number was updated after the index was completed

1-033. Roshini Traynor

Improving the Manufacturing of Clinical Grade CAR T-cells using a Novel Microfluidic Separation Technology

University of Wisconsin Madison (Wisconsin)

Preceptors: Dr. Steven Highfill, Dr. Hannah Song

1-034. Leeanne Vazquez-Ramirez

Innovative Methodology for the Study of Nociception in Individuals Unable to Self-Report Pain

University of Puerto Rico-Cayey Campus (Maryland)

Preceptor: Dr. Zenaide Quezado

1-035. Joel Wilkinson

Comparing Forms of Binding Communication to Observe Attitudinal and Behavioral Changes Related to Blood Donation in Black Populations

Howard University (District of Columbia)

Preceptor: Dr. Kamille West-Mitchell

NHLBI - National Heart, Lung, and Blood Institute (Posters 1-036 – 1-082)

1-036. Kiana Allen

Fostamatinib Reduces NET Release in Neutrophils Stimulated with Sepsis Plasma/Serum

Alcorn State University (Mississippi)

Preceptors: Dr. Heather Teague, Dr. Jeffrey Strich

1-037. Elizabeth Aquino Peterson

Associations Between PAI-1, Corticosterone, and Splenic Activity: Data from the Washington, D.C. Cardiovascular Health and Needs Assessment

University of Hawaii at Manoa (Hawaii)

Preceptors: Dr. Tiffany Powell-Wiley, Dr. Yvonne Baumer

1-038. Julia Ball

Zapping Our Way to a Cure: Gene Correction of Hematopoietic Stem Cells for Sickle Cell Disease

University of Virginia (Virginia)

Preceptors: Dr. John Tisdale, Dr. Naoya Uchida

1-039. Quinlan Batcheller

Determining the Impact of Alpha-Thalassemia and UGT1A1 Polymorphism on the Relationship Between Bilirubin and LDH in Sickle Cell Patients

Washington University in St. Louis (Missouri)

Preceptors: Dr. Swee Lay Thein, Dr. Kang Le

1-040. Avery Bradley

Hiv-1 Inhibitory Sequences Improve Transduction and Titer in Shortened Lentiviral Vectors

William & Mary (Virginia)

Preceptors: Dr. John Tisdale, Dr. Naoya Uchida

* Denotes that poster number was updated after the index was completed

1-041. Zan Chaudhry

An Algorithm for Real-Time Bayesian Learning Rate Tuning

Johns Hopkins University (Maryland)

Preceptor: Dr. Naoko Mizuno

1-042. Yechan Cho

Investigating the Effect of Pyruvate Kinase Activator Mitapivat (AG-348) on Tyrosine Phosphorylation of Band 3 in Sickle Cell Disease Patients

Vanderbilt University (Tennessee)

Preceptors: Dr. Swee Lay Thein, Dr. Kang Le

1-043. Brendon Davis

Correlates of Sleep & Fitness in Drosophila melanogaster

Southern University A&M College (Louisiana)

Preceptors: Dr. Susan Harbison, Dr. Arijit Ghosh

1-044. Dalia Fantini

Reconstituting the Focal Adhesion Complex: Insight into Talin Structure and Function by Cryo-EM

University of Pittsburgh (Pennsylvania)

Preceptor: Dr. Naoko Mizuno

1-045. Deanna Gaskin

Investigating the Impact of Non-Myeloablative Hematopoietic Cell Transplantation on Organ Pathology in the Murine Model of Sickle Cell Disease

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Courtney Fitzhugh, Dr. Mohamed Ali

1-046. Jason Gill

The Interaction and Motility of Non-Muscle Myosin 2 and Myosin 18A in Heterogenous Co-Filaments

University of Florida (Florida)

Preceptors: Dr. James Sellers, Dr. Mohammad Rahman

1-047. Ashley Gin

The Impact of Base Editing on Non-human Primate Hematopoietic Stem Cell Engraftment and Clonal Behavior

Oklahoma State University (Oklahoma)

Preceptors: Dr. Cynthia Dunbar, Dr. So Gun Hong

1-048. Rohan Herur

Bypassing BTK Inhibition: Unraveling Mutational Profiles of Resistance in CLL

Johns Hopkins University (Maryland)

Preceptors: Dr. Chingiz Underbayev, Dr. Adrian Wiestner

1-049. Shelby Hicks

Linking Psychosocial and Environmental Factors to Engagement in Step It Up Digital Health Intervention

Hampton University (Virginia)

Preceptor: Dr. Tiffany Powell-Wiley

* Denotes that poster number was updated after the index was completed

1-050. Rohan Hosuru

Long-term Tracking of Hematopoietic Clonal Dynamics and Mutations in Nonhuman Primate Post-Autologous Lentiviral-barcoded Hematopoietic Stem and Progenitor Cell Transplantation

University of Virginia (Virginia)

Preceptors: Dr. Cynthia Dunbar, Dr. Chuanfeng (Joy) Wu

1-051. Nipun Jayatissa

BIGBot: A Data-Driven Chatbot for Integrated Exploration of Renal Physiology

Brown University (Rhode Island)

Preceptor: Dr. Mark Knepper

1-052. Benjamin Joseph

The Impaired Cellular Metabolic Adaptations of Autosomal-Dominant Hyper-IgE Syndrome

Colgate University (New York)

Preceptors: Dr. Manfred Boehm, Dr. Natalia Dmitrieva

1-053. Thea Joseph

Developing a Deep Learning Algorithm to Quantify Pulmonary Vascular Remodeling in a Pre Clinical PAH Model and Comparing Performance to a Formal Histopathological Assesment

Middlebury College (Vermont)

Preceptor: Dr. Jason Elinoff

1-054. Hannah Karlin

Characterization of Alternative Splicing and Plasma Protein Levels

Amherst College (Massachusetts)

Preceptors: Dr. Daniel Levy, Dr. Roby Joehanes

1-055. Lauren Knabe

Characterizing Low Density Granulocytes in Bacterial Sepsis

Georgetown University (District of Columbia)

Preceptors: Dr. Jeffrey Strich, Dr. Heather Teague

1-056. Julia Kun

Fish Oil-Derived Very-Long-Chain PUFA Improved ERG Responses in Aged Mice

College of William and Mary (Virginia)

Preceptors: Dr. Zhihong Yang, Dr. Alan Remaley

1-057. Prasanthi Kunamaneni

Characterizing intermediates in dynamin-mediated fission using temperature sensitive mutants in Drosophila

University of California, Los Angeles (California)

Preceptors: Dr. Justin Taraska, Dr. Jenny Hinshaw

1-058. Anh Le

Optimization of Various Envelopes to Alter the Target of Lentiviral Vectors

University of Maryland, College Park (Maryland)

Preceptors: Dr. John Tisdale, Dr. Naoya Uchida

* Denotes that poster number was updated after the index was completed

1-059. Simone Lee

Automated Segmentation and Measurements of Pulmonary Cysts in Lymphangiomyomatosis across Multiple CT Scanner Platforms over a Period of Two Decades

Cornell University (New York)

Preceptor: Dr. Han Wen

1-060. Evan London

Achieving robust genome editing with reduced cytotoxicity using a protein-assisted delivery of Cas12a-RNP into human and rhesus HSPCs

William & Mary (Virginia)

Preceptors: Dr. John Tisdale, Dr. Selami Demirci

1-061. Michael Lu

A minimally-perturbative, site specific probe attachment for single molecule DNA studies

University of Virginia (Virginia)

Preceptors: Dr. Keir Neuman, Dr. Adam Fineberg

1-062. Henry Mangalapalli

Role of ATP5O-H135 in Response to Mitochondria pH Changes

Emory University (Georgia)

Preceptors: Dr. Elizabeth Murphy, Dr. Barbara Roman

1-063. Julia Marelli

Structural Biology of Axons in iPSC-Derived Neurons

University of Maryland (Maryland)

Preceptor: Dr. Naoko Mizuno

1-064. Yusuf Mastoor

Monitoring Mitochondrial Calcium in Cardiomyocytes During Simulated Ischemia/Reperfusion

University of Maryland, College Park (Maryland)

Preceptor: Dr. Elizabeth Murphy

1-065. Nikhil Mattu

Global Analysis in Fluorescence Lifetime Imaging Microscopy and Advantages of Decay-Associated Images

George Washington University (Maryland)

Preceptors: Dr. Jay Knutson, Dr. Rozhin Penjweini

1-066. Eries Jay Moreno

Exploring Mechanisms of Vascular Endothelial Activation in VEXAS under Physiological Shear Conditions

University of Guam (Guam)

Preceptors: Dr. Yogen Kanthi, Dr. Sumith Panicker

1-067. Temiloluwa Ogunsanya

The Impact of Polymerase-alpha Inhibition on T Cell Survival

University of Georgia (Georgia)

Preceptor: Dr. Keji Zhao

* Denotes that poster number was updated after the index was completed

1-068. Rebeka Rafi

Trends in All-cause and Cause-specific Mortality Disparities Between Black and White Individuals in Washington, D.C, 2000-2020

American University (District of Columbia)

Preceptors: Dr. Veronique Roger, Dr. Maryam Hashemian

1-069. Sandy Reynolds

The associations between loneliness and circulating lipoproteins as well as diabetes risk in African-American women residing in resource-limited neighborhoods: Data from the Step It Up Physical Activity Intervention

Prairie View A & M University (Texas)

Preceptor: Dr. Tiffany Powell-Wiley

1-070. Dana Sandler

Discrimination as a Moderator for the Relationship between Physical Activity and Monocyte Subsets: Data from the Step It Up Physical Activity Intervention

Cornell University (New York)

Preceptors: Dr. Tiffany Powell-Wiley, Dr. Yvonne Baumer

1-071. Daniel SanGiovanni

Amyloid formation of alternatively spliced variants of α -synuclein

Emory University (Georgia)

Preceptor: Dr. Jennifer Lee

1-072. Jonathan Scalabrini

Structural Characterization of Human Organic Cation Transporter 3 to Determine the Mechanism of Transport and Basis of Polyspecificity

Brown University (Rhode Island)

Preceptor: Dr. Jiansen Jiang

1-073. Samantha Shaffer

RNA thermometers are widespread upstream of ABC transporter genes in bacteria

Slippery Rock University (Pennsylvania)

Preceptor: Dr. Adrian Ferre-D'Amare

1-074. Habiba Shamroukh

A New Kinetic Assay that Monitors Helicase Unwinding of G-quadruplexes

University of Michigan - Dearborn (Michigan)

Preceptor: Dr. Adrian Ferre D'Amare

1-075. Kavisha Silva

Sex Differences in Mitochondrial Ca²⁺ Regulatory Proteins in MCU-WT Mice

University of Maryland - College Park (Maryland)

Preceptor: Dr. Elizabeth Murphy

* Denotes that poster number was updated after the index was completed

1-076. Morgan Skinner

Investigating a Selfish Genetic Element and Its Impact on Embryo Development

Delaware State University (Delaware)

Preceptors: Dr. Duilio Silva, Dr. Takashi Akera

1-077. Annie Son

Mitochondrial CHCHD4-TRIAP1 Signaling Mediates Cardiac Hypertrophy

University of Virginia (Virginia)

Preceptors: Dr. Paul Hwang, Dr. Jin Ma

1-078. Hao Dong Tian

Computational Modeling of Lipoprotein Dynamics via AlphaFold 2: ANGPTL3, ANGPTL8, APOA5, and LPL

Vassar College (New York)

Preceptor: Dr. Alan Remaley

1-079. Emily Valley

Epigenetic Regulation in Human iPSC-Derived HSC Differentiation: The Role of DOT1L

University of Arizona (Arizona)

Preceptors: Dr. Andre Larochelle, Dr. Jianyi Ding

1-080. Isabella Varea

Bulk RNA-Seq Analysis on the Role of Lyn kinase in Endothelial Cells of Patients with Lyn Kinase Associated Vasculitis and Liver Fibrosis (LAVLI)

Georgia Institute of Technology (Georgia)

Preceptors: Dr. Manfred Boehm, Dr. Dan Yang

1-081. Nancy Wu

A Next Generation Sequencing-based in vitro topoisomerase binding assay

Case Western Reserve University (Ohio)

Preceptor: Dr. Keir Neuman

1-082. Michaela Yamine

p32: A Conserved Mitochondrial Gene Involved in Drosophila Thermo-Adaptation

University of Michigan (Michigan)

Preceptors: Dr. Hong Xu, Dr. Zhe Chen

NIMH - National Institute of Mental Health (A-N) (Posters 1-083 – 1-138)

1-083. Ifeoma Akwue

Harmonizing Categorical and Dimensional Measures of Manic Episodes in Bipolar Disorder

University of Florida (Florida)

Preceptor: Dr. Francis McMahon

1-084. Kathryn Altman

Response to Novelty as an Early Predictor for Communication Development

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Danny Pine, Dr. Nathan Fox

* Denotes that poster number was updated after the index was completed

1-085. Jude Baffoe-Bonnie

The Development of Hippocampal-Cortical Functional Connectivity in Infants and Toddlers

Temple University (Pennsylvania)

Preceptor: Dr. Alex Martin

1-086. Noemi Banda

Impacts of sex chromosome aneuploidies on gene coexpression in humans

University of Colorado Boulder (Colorado)

Preceptors: Dr. Armin Raznahan, Dr. Alex DeCasien

1-087. Shivam Bansal

Characterizing the Brain's Involvement in Working Memory with MEG

University of Washington (Washington)

Preceptor: Dr. Allison Nugent

1-088. Amanda Bardhoshi

Ketamine Increases [11C](R)-rolipram Binding to Phosphodiesterase-4 (PDE4) in Rat and Monkey Brain, an Indirect Biomarker of Increased cAMP Signaling

Loyola University Chicago (Illinois)

Preceptors: Dr. Paul Parcon, Dr. Robert Innis

1-089. Caitlyn Bartsch

Blindsight insight: Effect of unseen faces on macaque visual processing

Southern Illinois University Carbondale (Illinois)

Preceptors: Dr. Paweł Kuśmierk, Dr. Elisabeth Murray

1-090. Lucy Block

Post-Acute Covid Sequelae: Obstructive Sleep Apnea and Periodic Limb Movements in NIH Clinical Cohort

University of Michigan (Michigan)

Preceptor: Dr. Ashura Buckley

1-091. Josephine Briand

Age-Dependent Learning Dynamics: Exploring Reinforcement Learning Parameters Across Adolescent and Adult Macaques

George Washington University (District of Columbia)

Preceptors: Dr. Bruno Averbeck, Dr. Marta Andujar

1-092. Caroline Candy

The relationship between estimated and actual nutritional content of foods

University of Michigan - Ann Arbor (Michigan)

Preceptors: Dr. Alex Martin, Dr. Jason Avery

1-093. Spencer Carter

Understanding predictors of social competence among adolescents

Harvard University (Massachusetts)

Preceptors: Dr. Daniel Pine, Dr. Emilio Valadez

* Denotes that poster number was updated after the index was completed

- 1-094. Sydney Cerveny
Characterizing dopamine transmission and reward-based behaviors in mice with low striatal dopamine D2 receptors.
American University (District of Columbia)
Preceptor: Dr. Veronica Alvarez
- 1-095. Christine (Cece) Chang
Neurons co-projecting to IT cortex and striatum play a potential role in divisive normalization
University of California, Los Angeles (California)
Preceptor: Dr. Walter Lerchner
- 1-096. Ariana Chavannes
The Effect of 7q11.23 Copy Number Variations on Cerebral Blood Flow
University of Washington (Washington)
Preceptor: Dr. Karen Berman
- 1-097. Ashley Chun
Investigating the Verbal-Performance IQ Split in Williams Syndrome
Haverford College (Pennsylvania)
Preceptors: Dr. Audrey Thurm, Dr. Cristan Farmer
- 1-098. Raven Cureton
Trial Pet Imaging of the Cannabinoid-2 Receptor in Rats & Monkeys Using [18F]JHU94620-D8
Howard University (District of Columbia)
Preceptor: Dr. Robert Innis
- 1-099. Esha Dadbhawala
Discrete strategies of decision-making during an odor-guided choice task
University of California, Los Angeles (California)
Preceptors: Dr. Angela Langdon, Dr. Sam Zorowitz
- 1-100. Joshua Dean
Detecting Cortical Activation and Baroreflex Regulation in the Brainstem Due to Heart Rate and Mean Arterial Pressure Using Resting-State fMRI
Northwestern University (Illinois)
Preceptor: Dr. Peter Bandettini
- 1-101. Isabel Gephart
Contribution of slow, brain-wide patterns of activity to ongoing thought in resting-state fMRI
Colgate University (New York)
Preceptors: Dr. Peter Bandettini, Dr. Javier Gonzalez-Castillo
- 1-102. Victoria Gobo
Pupil size and phase as a real-time marker of perceptual sensitivity and whole brain activity
Colgate University (New York)
Preceptors: Dr. Peter Bandettini, Dr. Sharif Kronemer

* Denotes that poster number was updated after the index was completed

1-103. Marcel González-Pedraza

Investigating the role of adult hippocampal neurogenesis on serial puzzle learning

University of Puerto Rico School of Medicine (Puerto Rico)

Preceptors: Dr. Heather Cameron, Dr. Mumeko Tsuda

1-104. Hannah Grote

Regulated Trafficking of GABA Transporters, GAT1 and GAT3, in Response to Methamphetamine Through the Trace Amine Associated Receptor, TAAR1

Colgate University (New York)

Preceptors: Dr. Susan Amara, Dr. Suzanne Underhill

1-105. Grace Gu

Developing protocols for integrating a cognitive working memory task with calcium imaging in freely-behaving marmosets

Cornell University (New York)

Preceptors: Dr. James Bourne, Dr. Jack Scott

1-106. Dwina Hadj-Mabrouk

CRISPR Interference Against Choline Acetyltransferase in Rhesus Monkey

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Barry Richmond, Dr. Walter Lerchner

1-107. Clara Haeffner

The role of emotional intelligence in modulating the impact of acute stress on decision-making under uncertainty.

University of Wisconsin-Madison (Wisconsin)

Preceptor: Dr. Silvia Lopez Guzman

1-108. Halla Hafermann

Examining the Roles of Cortisol Dysregulation and Implicit Self-Association with Death in Suicide Risk

Dartmouth College (New Hampshire)

Preceptors: Dr. Carlos Zarate, Dr. Elizabeth Ballard

1-109. Amanda Halliday

The Relationship Between ADHD Polygenic Score and Attention Symptom Concordance in Monozygotic Twin Pairs

Haverford College (Pennsylvania)

Preceptors: Dr. Tonya White, Dr. Marine Bouyssi-Kobar

1-110. Haley Harkins

The Effects of Scopolamine on Learning and Behavior in Marmosets

American University (District of Columbia)

Preceptor: Dr. Yogita Chudasama

* Denotes that poster number was updated after the index was completed

1-111. Alexandra Hehn

Convergent Validity of a Brief Caregiver Report Scale and Traditional Measures of Cognitive Functioning

Temple University (Pennsylvania)

Preceptor: Dr. Audrey Thurm

1-112. Qianyu Huo

Unveiling Spatial Subsampling Effects: Insights from Volumetric Two-Photon Imaging

University of Maine (Maine)

Preceptor: Dr. Dietmar Plenz

1-113. Anne Ilsley

White Matter Integrity and Symptom Severity in People with Schizophrenia

Duke University (North Carolina)

Preceptor: Dr. Karen Berman

1-114. Silanur Inanoglu

Investigation of Stem Cell Properties of Oligodendrocyte Progenitor Cells in Adult Central Nervous System

George Mason University (Virginia)

Preceptor: Dr. Tobias Merson

1-115. Lea Ives

Single unit fMRI mapping reveals intermixed neural subpopulation in the macaque face patch network during rest

George Washington University (District of Columbia)

Preceptors: Dr. David Leopold, Dr. Daniel Zaldivar

1-116. Jailyn Izu

Identification of a hypomorphic TBK1 N455S variant in a young woman with post-infectious refractory psychosis and catatonia

University of Arizona (Arizona)

Preceptor: Dr. Christopher Bartley

1-117. Zoe Kaegi

Methamphetamine Activates Small GTPase Rac1 Independently from RhoA and Trace Amine-Associated Receptor 1 (TAAR1)

Williams College (Massachusetts)

Preceptors: Dr. Susan Amara, Dr. Suzanne Underhill

1-118. Anna Kelemen

Exploring Brain Myelin Content Variability: The Role of 7q11.23 Copy Number Variation.

College of the Holy Cross (Massachusetts)

Preceptor: Dr. Karen Berman

1-119. Lilly Kelemen

Time-resolved MEG decoding of facial information from naturalistic images

Duke University (North Carolina)

Preceptors: Dr. Shruti Japee, Dr. Chris Baker

* Denotes that poster number was updated after the index was completed

1-120. Josephine Kleve

Age-Dependent Changes in Dopamine D2 Receptor Expression in the Primate Thalamus Present Implications for Neurodevelopmental Disease

Michigan State University (Michigan)

Preceptors: Dr. James Bourne, Ms. Angela Fan

1-121. Isabella Larsen

Comparing X and Y Chromosome Dosage Effects on the Architecture of Psychopathology in Males

Duke University (North Carolina)

Preceptor: Dr. Armin Raznahan

1-122. Adrian Lee

Radiosynthesis and Evaluation of PET Radioligands for Ion-Channel Based Chemogenetics

Johns Hopkins University (Maryland)

Preceptors: Dr. Robert Innis, Dr. Sami Zoghbi

1-123. Nicole Lee

Assessing the VirD Array's Suitability for Human Autoantibody Discovery

Case Western Reserve University (Ohio)

Preceptor: Dr. Christopher Bartley

1-124. Cassandra Levesque

BOLD fMRI repetition suppression coincides with increases in evoked EEG power during repeat object naming task

University of Wisconsin - Madison (Wisconsin)

Preceptors: Dr. Alex Martin, Dr. Adrian Gilmore

1-125. Kolin Lewis

Irritability in Childhood: Trajectories and Relations to Personality in Emerging Adulthood

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Melissa Brotman

1-126. Taylor Li

Layer-specific fMRI responses to mental imagery and perception of famous faces and places in human ventral occipital temporal cortex.

University of California, Santa Barbara (California)

Preceptor: Dr. Alex Martin

1-127. Sophia Lipetzky

Primary visual cortex responds during spoken language comprehension

University of Maryland, College Park (Maryland)

Preceptors: Dr. Grace Edwards, Dr. Chris Baker

1-128. Michael Liu

Comparing Mental Health Inquiry Practices by Pediatricians with Self-Reported Adolescent Mental Health

Loyola Marymount University (California)

Preceptor: Dr. Lisa Horowitz

* Denotes that poster number was updated after the index was completed

1-129. Ashley Lo

Effects of previous sustained cocaine use on choice in a delay-size task

Duke University (North Carolina)

Preceptors: Dr. Angela Langdon, Dr. Sam Zorowitz

1-130. Matthew Lowrie

Cholinergic contributions to rat psychomotor vigilance

William & Mary (Virginia)

Preceptor: Dr. Yogita Chudasama

1-131. Nathan Mann

Dorsolateral prefrontal cortex functional correlates of LIMK1 haplotype

University of Maryland, College Park (Maryland)

Preceptor: Dr. Karen Berman

1-132. Neelan Mathivannan

Identifying variables that impact behavior in a conflict task used to study neurogenesis

University of Maryland, College Park (Maryland)

Preceptors: Dr. Adam Swiercz, Dr. Heather Cameron

1-133. Ale Mendoza Pardo

Comparing Parent and Clinician Perceptions of Autism Spectrum Disorder Symptoms Across Racial Groups

Yale University (Connecticut)

Preceptors: Dr. Tonya White, Dr. Marine Bouyssi-Kobar

1-134. Ritika Merai

Beyond Translations: Cultural Adaptation of the Ask Suicide-Screening Questions (ASQ) tool in Global Healthcare Settings

Rutgers University (New Jersey)

Preceptors: Dr. Lisa Horowitz, Dr. Maryland Pao

1-135. Pranav Narnur

Specificity of neuronal cell-cell communication using single-cell RNA sequencing data

University of Arizona (Arizona)

Preceptor: Dr. Stefano Marengo

1-136. Gift Nnamdi

Elucidating role of paraventricular thalamic projection to area postriata in visual threat detection during hunger

University of California, Los Angeles (California)

Preceptors: Dr. Mario Penzo, Dr. Ryan Lingg

1-137. Chloe Noh

Characterization of Mu- and Delta-Opioid Receptor Expression in Medial Prefrontal Cortex GABAergic Interneurons

Harvard University (Massachusetts)

Preceptors: Dr. Hugo Tejeda, Dr. Huikun Wang

* Denotes that poster number was updated after the index was completed

1-138. Ekaete Ekpo*

Goal Priming: Using a Task to Assess Functional Connectivity in Depression

Johns Hopkins University (Maryland)

Preceptors: Dr. Sarah Lisanby

Wednesday, May 1, 2024

Session 2: 11:00 a.m. – 12:15 p.m. (ET) (Posters 2-001 – 2-141)

NIA - National Institute of Aging (Posters 2-001 – 2-060)

2-001. Sara Abdo

Major Pathologies Underlying the Cause of Death in SLAM

Misericordia University (Pennsylvania)

Preceptors: Dr. Hazal Ozturk Gurgun, Dr. Rafael deCabo

2-002. Fopefoluwa Atanda

Systematic Review and Meta-Analysis of Autoimmune Diseases and Dementia: with a Focus on Rheumatoid Arthritis

Morgan State University (Maryland)

Preceptor: Dr. Minkyong Song

2-003. Rithvik Baratam

Age-Associated Changes in the Primitive Hematopoietic Compartments of C57BL/6 and HET3 Mice

Baylor University (Texas)

Preceptors: Dr. Isabel Beerman, Dr. Luka Culig

2-004. Mackenzie Barnett

Photobiomodulation Therapy Upregulated Brain Neuroprotective Genes in an APP/PS1 Mouse Model of Alzheimer's Disease

Washington College (Maryland)

Preceptors: Dr. Olga Fedorova, Dr. Carla Rocha Dos Santos

2-005. Stephanie Barsoum

Multidimensional MRI maps astrogliosis and predicts resilience to Alzheimer's disease neuropathology

University of Florida (Florida)

Preceptor: Dr. Dan Benjamini

2-006. Disa Basu

Functional characterization of endocannabinoid synthase DAGLB in aldehyde dehydrogenase 1A1-positive dopaminergic neurons

University of Maryland, College Park (Maryland)

Preceptors: Dr. Lupeng Wang, Dr. Huaibin Cai

* Denotes that poster number was updated after the index was completed

2-007. Erin Bogacki

Generation of isogenic controls from Parkinson's disease patient-derived iPSC lines containing LRRK2 p.G2019S and SNCA p.A53T variants using CRISPR/Cas9

Royal Veterinary College (United Kingdom)

Preceptors: Dr. Mark Cookson, Dr. Aleksandra Beilina

2-008. Kate Chang

Pathological characterization of alpha-synuclein oligomers and fibrils in a model of synucleinopathies

Amherst College (Massachusetts)

Preceptor: Dr. Changyoun Kim

2-009. Rachael Dargan

Loss of FTD/ALS-Associated RNA Binding Proteins Alter Local iPSC-Derived Neuron Transcriptome and Proteome

St. Mary's University (Texas)

Preceptor: Dr. Veronica Ryan

2-010. Alexander Daskalopoulos

Neuron-derived extracellular vesicle-associated NAD⁺/NADH in a clinical trial of nicotinamide riboside in Parkinson's Disease

Brown University (Rhode Island)

Preceptor: Dr. Dimitrios Kapogiannis

2-011. Marshall Dawkins

Identifying Biomarkers of Dementia: "High-Dimensional Immunophenotyping of Peripheral Blood"

Nebraska Wesleyan University (Nebraska)

Preceptors: Dr. Payel Sen, Dr. Amit Singh

2-012. Adaira Dumm

Molecular Characterization of SARS-CoV-2 Non-Structural Proteins Essential for Replication of the Coronavirus

Hamilton College (New York)

Preceptor: Dr. Robert Brosh Jr.

2-013. Ethan Durham

Effect of Ambient Temperature and Caloric Restriction on Breast Cancer in Mice

Furman University (South Carolina)

Preceptors: Dr. Rafael de Cabo, Dr. Amanda Garrido

2-014. Sam Essig

Regional Brain Volumes Associated with Memory in Aging Rats: A Voxel-Based Morphometry Study

Lafayette College (Pennsylvania)

Preceptors: Dr. Peter Rapp, Dr. C'iana Cooper

2-015. Eugene Fong

Tracking Cellular Lineages Among Human Frontal Cortex Neuronal Cells

University of Maryland, Baltimore County (Maryland)

Preceptor: Dr. Xylena Reed

* Denotes that poster number was updated after the index was completed

2-016. Kathleen Fuchs

Molecular Characterization of the DEAH-box Helicase DHX37 and Implication in RNA Processing and Human Disease

Bethany College (West Virginia)

Preceptor: Dr. Robert Brosh, Jr.

2-017. Michael Georgescu

Longitudinal association of homocysteine with depressive and anxiety symptoms among urban adults: Healthy Aging in Neighborhoods of Diversity across the Life Span study

Yale University (Connecticut)

Preceptor: Dr. May Baydoun

2-018. Suri Gime

ARA290, a small peptide non-erythropoietic Erythropoietin derivative, ameliorates heart functional deterioration in a chronic cardiac stress model

Cornell University (New York)

Preceptors: Dr. Edward Lakatta, Dr. Ismayil Ahmet

2-019. Erin Greig

Higher Mitochondrial Function is Associated with Preserved Brain Structure

Duke University, Duke Kunshan University (North Carolina)

Preceptor: Dr. Qu Tian

2-020. Alex Guo

Myelination Mediates the Impact of Cardiorespiratory Fitness on Cognition: New Insights from the BLSA and GESTALT Cohorts

Brown University (Rhode Island)

Preceptor: Dr. Mustapha Bouhrara

2-021. Charnaë Henry-Smith

Atherosclerosis-induced cellular senescence exacerbates vascular cognitive impairment and dementia (VCID)

Howard University (District of Columbia)

Preceptor: Dr. Allison Herman

2-022. Lauren Herr

RECON Syndrome Helicase RECQL1 Trapped by a Mono-ribonucleotide Suppresses RNase H2 Incision

University of Vermont (Vermont)

Preceptor: Dr. Robert Brosh, Jr.

2-023. Liam Horan-Portelance

Single-cell and spatial transcriptomics reveal molecular patterns of selective neuronal vulnerability to Lewy pathology in a mouse model of PD/DLB

Georgetown University (District of Columbia)

Preceptors: Dr. Eliezer Masliah, Dr. Michiyo Iba

* Denotes that poster number was updated after the index was completed

2-024. Katheryn Huillca-Jara

Age-Associated Dynamics of Social Cognitive Architecture in a Rat Model

George Washington University (District of Columbia)

Preceptors: Dr. Peter Rapp, Dr. Subhadeep Dutta Gupta

2-025. Tayla Hunter

Investigating the Effects of Discrimination on the Characteristics of Plasma Extracellular Vesicles

Howard University (District of Columbia)

Preceptors: Dr. Michele Evans, Dr. Nicole Noren Hooten

2-026. Eulim Kang

Proteomic Analysis of Amyloid- β Plaques in Human Alzheimer's Disease Brains with Laser Capture Microdissection

Fayetteville State University (North Carolina)

Preceptors: Dr. Christopher Ramsden, Dr. Elizabeth Calzada

2-027. Joshua Kim

Macromolecular Mapping with MRI Using Localized Stabilization for Solving the Fredholm Equation of the First Kind

Vassar College (New York)

Preceptor: Dr. Richard Spencer

2-028. Sydney Klaisner

The unveiling of microglia presented with Alzheimer's disease and related dementia associated genes by using systematic HLA immunopeptidomics

Adrian College (Michigan)

Preceptors: Dr. Andy Qi, Dr. Andrew Singleton

2-029. Anantha Korrapati

Low-Complexity Regions of RNA-Binding Proteins Can Either Enhance or Suppress Aggregates Formed in Different Neurodegeneration Disorders

University of Alabama at Birmingham (Alabama)

Preceptors: Dr. Weidong Wang, Dr. Tianyi Zhang

2-030. Mounisha Kovour

Searching for predictors of health and survival in Macaques

University of Illinois - Urbana Champaign (Illinois)

Preceptors: Dr. Rafael deCabo, Dr. Michel Bernier

2-031. John Laporte

Longitudinal changes in axonal density in MCI and AD revealed using multishell diffusion MR imaging

University of Maryland Baltimore County (Maryland)

Preceptor: Dr. Mustapha Bouhrara

* Denotes that poster number was updated after the index was completed

2-032. Jiwon Lee

Investigating Pro-Social Behavior Using Ultrasonic Vocalizations in Young and Aged Rats

University of Illinois Chicago (Illinois)

Preceptor: Dr. Peter Rapp

2-033. Keefer Li

Longitudinal deep phenotyping of "NOLIFE" mice undergoing long-term cyclic partial cellular reprogramming: 6-month analysis

University of Massachusetts Amherst (Massachusetts)

Preceptors: Dr. Isabel Beerman, Dr. Luka Culig

2-034. Monica Mesecar

Single Cell Analysis of Age-Related Changes in Human Brain Transcriptome & Epigenome

University of Notre Dame (Indiana)

Preceptors: Dr. Mark Cookson, Dr. Megan Duffy

2-035. Danielle Mook

Consumption of artificially sweetened beverages is associated with higher frailty index in older adults

University of California, Irvine (California)

Preceptors: Dr. Eleanor Simonsick, Dr. Toshiko Tanaka

2-036. Jaida Morgan

Investigating Extracellular Vesicles as a Link Between Obesity and Chronic Kidney Disease

Yale University (Connecticut)

Preceptors: Dr. Michele Evans, Dr. Nicole Noren Hooten

2-037. Himani Nayyar

Heart-Brain Communication Deteriorates in Advanced Age

Wake Forest University (North Carolina)

Preceptors: Dr. Edward Lakatta, Dr. Ismayil Ahmet

2-038. Tony Nguyen

The impact of CD8 T cells on the behavior of Alzheimer's disease mouse models

George Mason University (Virginia)

Preceptor: Dr. Nan-Ping Weng

2-039. Ada Okereke

Long read sequencing identifies lncRNAs implicated in vascular smooth muscle cell senescence

University of California, Los Angeles (California)

Preceptor: Dr. Allison Herman

2-040. Oluwaseyi Oyebola

Preventing Type 1 diabetes for the Future

Howard University (District of Columbia)

Preceptors: Dr. Josephine Egan, Dr. Maire Doyle

* Denotes that poster number was updated after the index was completed

- 2-041. Benjamin Packer
RNA Binding Protein Loss of Function and FTD/ALS-Associated Mutations Alter Local Protein Translation in Neurons
University of Massachusetts Amherst (Massachusetts)
Preceptor: Dr. Veronica Ryan
- 2-042. Felix Pan
Cellular and Transcriptional Responses to Chronic Inflammation and AD
University of California, Berkeley (California)
Preceptor: Dr. Ranjan Sen
- 2-043. Jinhyeok Park
Longitudinal Analysis of Blood Immune Cell Change with Age in the ECA Cohort
Temple University (Pennsylvania)
Preceptor: Dr. Nan-Ping Weng
- 2-044. Nidhi Patel
The Gut-Cognition Axis': Microbiome Enzymes, Pathways and Species
University of Pittsburgh (Pennsylvania)
Preceptors: Dr. Lenore Launer, Dr. Osorio Meirelles
- 2-045. Jennifer Perez
Converging Pathways: Hypoxic and Inflammatory Signaling Dynamics in Immunity
Texas State University (Texas)
Preceptor: Dr. Amit Singh
- 2-046. Amy Qiang
A schizophrenia/autism-associated topoisomerase enhances stability of maternal mRNAs that are essential for the neurodevelopment of progeny
University of Kansas (Kansas)
Preceptors: Dr. Weidong Wang, Dr. Seung Kyu Lee
- 2-047. Quinton Reed
Influenza Vaccination Elicits Clonotype Expansion In Epitope Specific CD8+ T Cells
College of William and Mary (Virginia)
Preceptor: Dr. Nan Ping Weng
- 2-048. Abid Rehman
Single-Cell Long-Read Sequencing of the Aging Mouse Brain Reveals RNA Dynamics
University of Illinois at Urbana-Champaign (Illinois)
Preceptor: Dr. Emmanouil Maragkakis
- 2-049. Gavin Riccobono
Quantification of ALDH1A1+ dopaminergic neuron puncta and axon terminals in a genetically ablated mouse model of Parkinson's disease.
Southeastern University (Florida)
Preceptors: Dr. Huaibin Cai, Dr. Ahsan Habib
- * Denotes that poster number was updated after the index was completed

- 2-050. Tatiana Rodriguez Rivera
Intracellular Osteopontin (OPN) promotes vascular senescence by suppressing the production of pro-apoptotic genes
Loyola University Maryland (Maryland)
Preceptor: Dr. Allison Herman
- 2-051. Chad Sanehira
A modified Gingerenone A as a novel senotherapeutic compound
Creighton University (Nebraska)
Preceptor: Dr. Ruin Moaddel
- 2-052. Ethan Schaffer
Chromosomal Instability, Synthetic Lethality, and Organismal Phenotype Induced by Concomitant Loss of RECQL1 and BLM DNA Helicases
Johns Hopkins University (Maryland)
Preceptor: Dr. Robert Brosh
- 2-053. Ishaan Shah
Association of plasma biomarkers with longitudinal change in Alzheimer's and age-related brain atrophy
University of Miami (Florida)
Preceptors: Dr. Murat Bilgel, Dr. Susan Resnick
- 2-054. Kate Smith
Coronavirus Nsp13 Helicase Catalytically Destabilizes Difficult-to-Replicate SARS-CoV-2 Derived RNA Stem-Loops and its Processivity on RNA Fork Duplexes is Impaired by a Protein Interface Missense Mutation
Wake Forest University (North Carolina)
Preceptor: Dr. Robert Brosh
- 2-055. Shaun Stevenson
How do young and old heart pacemakers cope with isolation stress?
Texas Southern University (Texas)
Preceptor: Dr. Luisa Baca
- 2-056. Rhea Tiwari
Glucose Catabolism Along the Circadian Rhythm in Rat Liver and Kidney: Effects of Age and Caloric Restriction
University of Maryland, College Park (Maryland)
Preceptors: Dr. Rafael de Cabo, Dr. Sonia Cortassa
- 2-057. Nicole Yang
Metabolic Adaptations in Early Development Support the Hyperdynamic Heart
University of California, Los Angeles (California)
Preceptors: Dr. Edward Lakatta, Mr. Daniel Riordon
- 2-058. Alexandra Zonnefeld
Characterization of Age-Associated Gene Expression Changes in Mouse Sweat Glands
Dordt University (Iowa)
Preceptors: Dr. Chang-Yi Cui, Dr. Myriam Gorospe
- * Denotes that poster number was updated after the index was completed

2-059. Ainslee Zou
Characterization of CD8+ T cell response to a SARS-CoV-2 spike protein
Goshen College (Indiana)
Preceptor: Dr. Nan-ping Weng

2-060. David Zweibaum
Proteomic Markers Underlying the Relationship Between Mitochondrial DNA Copy Number and Dementia Risk
University of Pittsburgh (Pennsylvania)
Preceptors: Dr. Jun Ding, Dr. Qu Tian

NIDDK - National Institute of Diabetes and Digestive and Kidney Diseases (Posters 2-061 – 2-109)

2-061. Greta Baker
Microbiome-induced Resistance to Obesity is Associated with Lipolysis of White Adipose Tissue and a Type 2 Immune Response
College of William & Mary (Virginia)
Preceptors: Dr. Barbara Rehermann, Dr. Shahar Azar

2-062. Shinelle Black
LDB1 regulation of pluripotency factors, KLF4 and chromatin organization during erythroid lineage choice
University of Chicago (Illinois)
Preceptors: Dr. Ann Dean, Dr. Heung Sun Kwon

2-063. Summer Nolan*
Characterizing a Sigma-Factor 54 Regulated Pathway Within the Two-Component System of B. pertussis
Rensselaer Polytechnic Institute (New York)
Preceptor: Dr. Deborah Hinton

2-064. Maiah Brush
Diagnostic tests to distinguish selective and global insulin resistance
Eckerd College (Florida)
Preceptor: Dr. Rebecca Brown

2-065. Natalie Chin
Molecular modifiers of TDP-43 liquid-liquid phase separation
Brandeis University (Massachusetts)
Preceptor: Dr. Yihong Ye

2-066. Kyndall Davis
A Natural History Study of Metabolic Sizing
Purdue University (Indiana)
Preceptor: Dr. Kong Chen

* Denotes that poster number was updated after the index was completed

2-067. Sophia Glaros

TMAO Concentrations in a Randomized Crossover Trial Comparing a Vegan Diet High or Low in Extra Virgin Olive Oil

University of Maryland, College Park (Maryland)

Preceptor: Dr. Stephanie Chung

2-068. Abby Goldschmidt

The Parent-TRAP: illustrating hypothalamic subpopulations underlying the balance of parenting and other homeostatic drives

University of California, San Diego (California)

Preceptors: Dr. Marc Reitman, Dr. Michael Krashes

2-069. Jessalyn Grant-Bier

dCas9-directed Proximity Labeling Screens to Identify Proteins Associated with Expanded FMR1 Alleles in Fragile X Syndrome Embryonic Stem Cells

Carnegie Mellon University (Pennsylvania)

Preceptors: Dr. Karen Usdin, Dr. Daman Kumari

2-070. Ailis Grieshaber

Generation of VHH Nanobodies Against HCV Envelope Glycoprotein1 for Structural and Vaccine Studies

University of Idaho (Idaho)

Preceptor: Dr. T. Jake Liang

2-071. Emmett Griffin-Baldwin

*Cell-Type Specific Modulation of Neuropeptide Signaling in *Caenorhabditis elegans**

Southwestern University (Texas)

Preceptor: Dr. Ashley Frakes

2-072. Meenakshi Gupta

Liver-specific Expression of Activated G Protein Gs α Leads to Hyperglycemia with Reduced Pancreatic α -cell Mass and Function

University of Illinois- Urbana Champaign (Illinois)

Preceptors: Dr. Lee Weinstein, Dr. Min Chen

2-073. Jonathan Harrison

Structural Studies of Dynamin 3 by CryoEM

Catholic University of America (District of Columbia)

Preceptors: Dr. Nidhi Kundu, Dr. Jenny Hinshaw

2-074. Eliza Huefner

Differences in Biological Age in African Immigrants and African Americans: Insight from the Africans in America Study

Wellesley College (Massachusetts)

Preceptor: Dr. Anne Sumner

* Denotes that poster number was updated after the index was completed

2-075. Jamaica Hurston

The Preferred Body Size of African immigrants is Normal Weight or Overweight: Insight from the Africans in America Study

Emory University (Georgia)

Preceptor: Dr. Anne Sumner

2-076. Jeremiah Isaac

The role of Central Amygdala GABAergic input to the Parabrachial Nucleus in food intake

Northeastern University (Massachusetts)

Preceptor: Dr. Andrew Lutas

2-077. Angel Jaimes

A comprehensive approach to reveal the preferences and regulation of the piRNA processor

Kennesaw State University (Georgia)

Preceptor: Dr. Astrid Haase

2-078. Eva Karolczak

Characterizing the Orphan Receptor GPR45 as a Key Modulator of Feeding and Weight Regulation in the Paraventricular Hypothalamus

Swarthmore College (Pennsylvania)

Preceptor: Dr. Michael Krashes

2-079. Caroline Katz

Interactions between Hsp90 mutants and cochaperones Cdc37 and Sti1

Duke University (North Carolina)

Preceptors: Dr. Michael Reidy, Dr. Daniel Masison

2-080. Kathleen Kwon

Structural Insight into Conservation and Variation of ExbB-ExbD Among Gram-Negative Bacterial Species

St. Olaf College (Minnesota)

Preceptors: Dr. Susan Buchanan, Dr. Anna Ratliff

2-081. Daniel Layton

G Protein Gsa Is Required for Normal Glucose Sensing in POMC Neurons

College of William & Mary (Virginia)

Preceptors: Dr. Lee Weinstein, Dr. Min Chen

2-082. Andrew Makarewicz

Metabolic Plasticity is One of the Mechanisms of Thyroid Cancer Resistance to Lenvatinib

Gallaudet University (District of Columbia)

Preceptors: Dr. Joanna Klubo-Gwiezdzinska, Dr. Sonam Kumari

2-083. Daviana L. Menendez Escalera

Evaluation of neuropeptide receptors involved in cell non-autonomous unfolded protein response of the endoplasmic reticulum using an RNAi-based screen

Ana G. Méndez University - Carolina Campus (Puerto Rico)

Preceptor: Dr. Ashley Frakes

* Denotes that poster number was updated after the index was completed

2-084. Matthew Menkart

Changes in Portal Insulin and Associations with the Gut Microbiome following HCV Clearance

Emory University (Georgia)

Preceptor: Dr. Theo Heller

2-085. Eva Messenger

Saving the Liver: PCBP1 and PCBP2 Iron Chaperones are Essential for Hepatocyte Survival

University of Toronto (Canada)

Preceptors: Dr. Caroline Philpott, Dr. Olga Protchenko

2-086. Vibha Mital

Regulation of hormonal gene expression in the anterior pituitary gland in mice by type 3 deiodinase (DIO3), a thyroid hormone-inactivating enzyme

New York University (New York)

Preceptors: Dr. Douglas Forrest, Dr. Lily Ng

2-087. Neha Mokhasi

Understanding the Mechanisms of the Gβ5/R7-RGS Complex in Pain Transmission through Single Cell mRNA Profiling

University of Illinois Springfield (Illinois)

Preceptors: Dr. William Simonds, Dr. Jianhua Zhang

2-088. Nicole Nguyen

Regulation of Ldb1-dependent erythroid genes by Sp1 and Sp3

Boston University (Massachusetts)

Preceptors: Dr. Ann Dean, Dr. Juhyun Kim

2-089. Samantha Olmsted

In Vivo Base Editing of the Human Late-Onset Tay-Sachs Disease Mutation Ameliorates Neurodegeneration

University of Virginia (Virginia)

Preceptors: Dr. Richard Proia, Dr. Maria L. Allende

2-090. Jenna Oringher

The Tryptophan Pathway in the Gut-Liver Axis During and After Hepatitis C Virus Infection

University of Maryland, College Park (Maryland)

Preceptor: Dr. Theo Heller

2-091. Christina Park

Vibration-Controlled Transient Elastography and Serology to Rule Out Cirrhosis in Patients with Chronic Hepatitis D Virus (HDV) Infection

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Christopher Koh

* Denotes that poster number was updated after the index was completed

2-092. Ethan Pham

A unique mutation within sigma 70 of LF82, an Escherichia coli pathobiont associated with Crohn's disease, reveals a genetic adaptation that leads to the procurement of several phenotypes

Mount Saint Mary's University (Maryland)

Preceptor: Dr. Deborah Hinton

2-093. Amanda Putti

Characterizing the Structure of the Tripartite Efflux Pump MexV-MexW-OprM in Pseudomonas aeruginosa

University of Michigan (Michigan)

Preceptor: Dr. Anna Ratilff

2-094. Yishu Qiu

The Gi signaling in thermogenic fat regulates whole-body glucose homeostasis

New York University (New York)

Preceptors: Dr. Liu Liu, Dr. Jurgen Wess

2-095. Virginia Rosas

Bacteriophage T4 virus – investigating the function of early-proteins in relation to host destabilization and phage growth

East Carolina University (North Carolina)

Preceptor: Dr. Deborah Hinton

2-096. Adam Roszczyk

Optimizing Induction of an Astrocyte-Specific Cre Line

SUNY University at Buffalo (New York)

Preceptors: Dr. Ashley Frakes, Dr. Karmen Mah

2-097. Kathryn Ruppert

Does MSH2 play a role in FMR1 gene silencing in Fragile X Syndrome?

Washington College (Maryland)

Preceptors: Dr. Daman Kumari, Dr. Karen Usdin

2-098. Gabriel Sanchez

Comparisons of Body Water Data using Tracer Dilution and Bioelectrical Impedance Spectroscopy Methods

Georgia Institute of Technology (Georgia)

Preceptor: Dr. Kong Chen

2-099. Mariam Sayed

Insulin Resistance Alone Only Accounts for Half of Incident Type 2 Diabetes Mellitus (T2DM) Cases in African Immigrants Living in America

Michigan State University (Michigan)

Preceptor: Dr. Anne E Sumner

2-100. Anne Schauer

Using the Novel AirID Capture Affinity Method to Identify Host Proteins Binding to Hepatitis B Virus X Protein

University of Maryland (Maryland)

Preceptors: Dr. Karim Mouzannar, Dr. Susannah Stephenson-Tsoris

* Denotes that poster number was updated after the index was completed

2-101. Janan Semseddin

Automation of mouse wipe behavior in animal behavioral studies using machine learning

George Washington University (District of Columbia)

Preceptors: Dr. William Simonds, Dr. Jianhua Zhang

2-102. Sydney Shapiro

Exploring the structures of key players in the Rcs phosphorelay signaling cascade

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Melesse Nune, Dr. Susan Buchanan

2-103. Priya Singh

Pegylated SARS-CoV-2 Nanoparticle Vaccines Induced a Sharp and Lasting Increase in Antibodies against Polyethylene Glycol

College of William & Mary (Virginia)

Preceptors: Dr. Barbara Rehermann, Dr. Keisuke Fukutomi

2-104. Christopher Sollenberger

Development of Abdominal Varices Is Associated with Increased Hepatocellular Carcinoma Risk in Patients with Advanced Fibrosis and Cirrhosis

Northwestern University (Maryland)

Preceptor: Dr. Christine Hsu

2-105. Willis Tang

The metabolic dysfunction-associated steatohepatitis (MASH) phenotype of mouse Hsd17b13 is not replicated in humanized HSD17B13 mouse models

University of Southern California (California)

Preceptor: Dr. Yaron Rotman

2-106. Britney Tracey

Pregnancy Complications in Women with Lipodystrophy: The Role of Traditional and Lipodystrophy-specific risk factors

Fayetteville State University (North Carolina)

Preceptor: Dr. Rebecca Brown

2-107. Becca Tuska

Bone and Radiologic Findings in Congenital Generalized Lipodystrophy: Report of 60 Cases and a Systematic Review

Pepperdine University (California)

Preceptor: Dr. Rebecca Brown

2-108. Alexandra Walker

Double Trouble Mouse Model: Lessons from a Fragile X and Huntington's Disease Double Mutant Mouse Model

Plymouth State University (New Hampshire)

Preceptors: Dr. Xiaonan Zhao, Dr. Karen Usdin

* Denotes that poster number was updated after the index was completed

2-109. Charli Wingfield
Stil is Specifically Expressed and Required in the Drosophila Female Germline
University of Tampa (Florida)
Preceptors: Dr. Leif Benner, Dr. Brian Oliver

NIMH - National Institute of Mental Health (O-Z) (Posters 2-110 – 2-137)

2-110. Amanda Olsen-Dufour
PET Imaging of PDE4B as an Indirect Biomarker of cAMP Turnover in Rat Brain After Acute and Chronic Alcohol Exposure
Dartmouth College (New Hampshire)
Preceptors: Dr. Robert Innis, Dr. Shiyu Tang

2-111. Matilah Pamie-George
Robust Quantification of Phosphodiesterase-4D Using Carbon-11 PET Radioligands in Monkey Brain without Radiometabolite Contamination
Christopher Newport University (Virginia)
Preceptors: Dr. Robert Innis, Dr. Sami Zoghbi

2-112. Purnima Qamar
Neural Underpinnings of Childhood Anxiety: Resting State Functional Connectivity within the Salience and Default Mode Brain Networks in Community and Clinically Anxious Samples
University of California, Riverside (California)
Preceptor: Dr. Daniel Pine

2-113. Caroline Raymond
Myelination from Ages 5 to 22 Years is Mediated by GTF2I Imputed Cortical Expression Levels
University of Virginia (Virginia)
Preceptor: Dr. Karen Berman

2-114. Cassandra Raymond
The effect of community and urban life stress on economic decision-making
Wake Forest University (North Carolina)
Preceptor: Dr. Silvia Lopez-Guzman

2-115. Cosette Rhoads
Linking Neurochemical Processes and Schizophrenia Risk Gene Expression with Transcript Neuromapping
Grinnell College (Iowa)
Preceptor: Dr. Karen Berman

2-116. Pei Robins
Characterizing hippocampal activation with magnetoencephalography using the Mnemonic Similarity Task in healthy participants
Lawrence University (Wisconsin)
Preceptors: Dr. Sarah Lisanby, Dr. Zhi Deng

* Denotes that poster number was updated after the index was completed

2-117. Will Robison

Does “face pareidolia” stem from the activation of macaque face patches neurons?

University of Massachusetts, Amherst (Massachusetts)

Preceptor: Dr. David Leopold

2-118. Phelix Rodriguez

Chemogenetic suppression of inferior temporal cortex biases object recognition memory in Rhesus monkeys

Ohio State University (Ohio)

Preceptors: Dr. Barry Richmond, Dr. Bing Li

2-119. Nathanyal Ross

The role of prefrontal cortical somatostatin transmission from distinct cell types in regulating learning

University of Health Sciences and Pharmacy in St. Louis (Missouri)

Preceptor: Dr. Hugo Tejada

2-120. Melissa Roybal

Age and Psychopathology in Youth with Sex Chromosome Trisomies

Vassar College (New York)

Preceptor: Dr. Armin Raznahan

2-121. Ryan Ruhde

Reproducing the facilitatory effects of transcranial random noise stimulation on motion processing: A registered report

Emory University (Georgia)

Preceptors: Dr. Grace Edwards, Dr. Christopher Baker

2-122. Mia Scrabis

PET imaging in healthy human brain can quantify cyclooxygenase-1, a putative microglial biomarker of inflammation

University of Pittsburgh (Pennsylvania)

Preceptor: Dr. Robert Innis

2-123. Jiayu Shao

FunMaps: a toolbox for parcellating functional networks in the human brain using resting-state fMRI data

Johns Hopkins University (Maryland)

Preceptors: Dr. Alex Martin, Dr. Andrew Persichetti

2-124. Tesia Shi

The interaction between connectedness, NSSI, and suicide risk in youth presenting to an emergency department

University of Maryland, College Park (Maryland)

Preceptors: Dr. Lisa Horowitz, Dr. Maryland Pao

2-125. Nellie Simmonds

The role of posterior STS in facial expression processing: a transcranial stimulation study

Vassar College (New York)

Preceptors: Dr. Chris Baker, Dr. Shruti Japee

* Denotes that poster number was updated after the index was completed

2-126. Megan Spurney

Resting Regional Cerebral Blood Flow Across Men, Naturally-Cycling Women, and Women using Oral Contraceptives Measured by [15O]-Water Positron Emission Tomography

Cornell University (New York)

Preceptors: Dr. Karen Berman, Dr. Shau-Ming Wei

2-127. Melanie Staszewski

Sex chromosome dosage effects on methylation in the human genome

Salisbury University (Maryland)

Preceptor: Dr. Armin Raznahan

2-128. Grace Stohr

Functional connectivity during threat and rest in youth with varying levels of irritability

Washington University in St. Louis (Missouri)

Preceptor: Dr. Melissa Brotman

2-129. Ananya Swaminathan

Comorbidity of ADHD and Bipolar Disorder: Core Features and Familial Aggregation

Johns Hopkins University (Maryland)

Preceptor: Dr. Kathleen Merikangas

2-130. Liam Swiggard

Detecting Dissonance Before Dysphoria

Clark University (Massachusetts)

Preceptors: Dr. Tonya White, Dr. Neda Sadeghi

2-131. Elizabeth Tandilashvili

Naturalistic adult-infant vocal exchanges in the context of parental depression: Associations with infant functioning

University of Maryland, College Park (Maryland)

Preceptor: Dr. Melissa Brotman

2-132. Alaina Tillman

Self-Reported Sleep Difficulties Preceding a Suicide Crisis

Florida Atlantic University (Florida)

Preceptors: Dr. Carlos Zarate, Dr. Elizabeth Ballard

2-133. Spencer Webster-Bass

Chemogenetic Disruption of Projections from Perirhinal Cortex to Rostromedial Caudate Impairs Stimulus-Reward Association Learning in Rhesus Monkeys

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Barry Richmond, Dr. Wenliang Wang

2-134. Gila Winefeld

Driving mice: A behavioral paradigm for studying signatures of learning in the visual cortex

Lewis & Clark College (Oregon)

Preceptors: Dr. Yelena Bibineyshvili, Dr. Dietmar Plenz

* Denotes that poster number was updated after the index was completed

2-135. Ewurakua Winful

Relationships Between Pro-Inflammatory Cytokines, Cortical Excitability, and Ketamine Antidepressant Response in Treatment-Resistant Depression

Howard University (District of Columbia)

Preceptors: Dr. Jessica Gilbert, Dr. Carlos Zarate

2-136. Destiny Wright

Neurobiological Underpinnings of Working Memory in Children and Adolescents with Williams Syndrome

Pennsylvania State University (Pennsylvania)

Preceptors: Dr. Karen Berman, Mrs. Tiffany Nash

2-137. Amy Xu

Ketamine Increases Reward-Motivated Behavior and Gamma Power in Depressed Sample

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Jessica Gilbert

NCI - National Cancer Institute (Posters 2-138 – 2-139)

2-138. Sally Weng

Investigating Mechanisms and Strategies of Overcoming Resistance to Sacituzumab Govitecan in Bladder Cancer

Wellesley College (Massachusetts)

Preceptors: Dr. Andrea Apolo, Dr. Salah Boudjadi

2-139. Anna Zdunek

Role of Rab25 in Oral Tumor Development and EGFR Trafficking in 4NQO-Induced Tumor Mouse Model

Georgetown University (District of Columbia)

Preceptors: Dr. Roberto Weigert, Dr. Weiye Wang

NIDDK - National Institute of Diabetes and Digestive and Kidney Diseases (Poster 2-140)

2-140. Michael Hwang*

Increased Insulin Signaling through the Insulin Receptor is Associated with a Pro-Atherogenic Lipid Profile

Pomona College (California)

Preceptor: Dr. Rebecca Brown

NIA - National Institute of Aging (Poster 2-141)

2-141. Samuel Neuman*

Designing a Universal Lentivirus Construct for CRISPRi Screens in iPSC-Derived Neurons

University of Wisconsin-Madison (Wisconsin)

Preceptor: Dr. Daniel Ramos

* Denotes that poster number was updated after the index was completed

Wednesday, May 1, 2024

Session 3: 1:30 p.m. – 2:45 p.m. (ET) (Posters 3-001 – 3-139)

NHGRI - National Human Genome Research Institute (Posters 3-001 – 3-057)

3-001. Jacob Aickareth

Investigating Stigma within Immigrants with Sickle Cell Disease in the United States

Texas Tech University (Texas)

Preceptors: Mr. Vence Bonham, Mrs. Ashley Buscetta

3-002. Natalie Asmus

Investigating the Genetic Etiology of an Unknown Neurodegenerative Disease Through Long-Read Sequencing

Duke University (North Carolina)

Preceptor: Dr. Neil Hanchard

3-003. Lily Barna

The Importance of Genetic Literacy

Colgate University (New York)

Preceptor: Dr. Chris Gunter

3-004. Thalia Billawala

Creating a Functional Hepatocyte Model of Fatty Liver in Kwashiorkor

University of California, Davis (California)

Preceptor: Dr. Neil Hanchard

3-005. Tiffany Chen

Neurotinib, a brain penetrant c-Abl inhibitor, prevents activation and phosphorylation of c-Abl kinase and α -synuclein

Emory University (Georgia)

Preceptors: Dr. Ellen Sidransky, Dr. Nahid Tayebi

3-006. Karenna Choi

In Vitro and In Vivo Efficacy of Single-Strand and Self-Complementary AAV9 Vectors to Treat Isolated Cobalamin B Type Methylmalonic Acidemia

Columbia University (New York)

Preceptors: Dr. Charles Venditti, Dr. Eun-Young Choi

3-007. Isabel Cordova Amador

Social Networks and Rheumatoid Arthritis-Related Pain in Hispanic Populations

University of Puerto Rico Rio Piedras Campus (Puerto Rico)

Preceptor: Dr. Laura Koehly

3-008. Chenia Coulanges

Project Coordination for an International Collaborative Study of Kwashiorkor

University of Florida (Florida)

Preceptor: Dr. Neil Hanchard

* Denotes that poster number was updated after the index was completed

3-009. Anna Crowell

Multiomic Approach to Diagnosis, A Case Study in the Undiagnosed Diseases Program

Oberlin College (Ohio)

Preceptor: Dr. Cynthia Tifft

3-010. David D'Onofrio

Machine Learning and Misalignment: a Comprehensive Approach

Fordham University (New York)

Preceptor: Dr. David Adams

3-011. Kuki Davey

Functional Validation of Candidate Genes for Childhood Onset Essential Hypertension: HMCN1 and SYNE1

University of Oxford (United Kingdom)

Preceptor: Dr. Neil Hanchard

3-012. Ciciely Davy

The Relationship between Empathy and Self-Efficacy in Vicarious Learning

Brown University (Rhode Island)

Preceptor: Dr. Susan Persky

3-013. Tara Desporte

*Triple knockout of cobalamin carrier encoding genes: a model of vitamin B12 deficiency in zebrafish (*Danio rerio*)?*

Johns Hopkins University (Maryland)

Preceptors: Dr. Lawrence Brody, Mr. David Bernard

3-014. Charlotte Early

Utilizing Bayes' Theorem to Assess Positive Predictive Probabilities of Secondary Genomic Findings

Davidson College (North Carolina)

Preceptors: Dr. Leslie Biesecker, Dr. Julie Sapp

3-015. Carl Esperanzate

Characterizing a Pyrin B30.2 domain variant in a family with Familial Mediterranean Fever

University of New Mexico (New Mexico)

Preceptor: Dr. Ivona Aksentijevich

3-016. Laila Ghorab

Ubiquitinated proteome alterations in FBXW7-mutated endometrial cancer cells

University of Maryland, College Park (Maryland)

Preceptor: Dr. Daphne Bell

3-017. Meredith Gillis

Assessment of the spectrum of pathogenic variants in oculocutaneous albinism type 2

Saint Olaf College (Minnesota)

Preceptors: Dr. David Adams, Dr. Stacie Loftus

* Denotes that poster number was updated after the index was completed

3-018. Logan Glasstetter

High-throughput screening for small-molecule stabilizers of misfolded glucocerebrosidase in Gaucher disease and Parkinson's disease

Duke University (North Carolina)

Preceptors: Dr. Ellen Sidransky, Dr. Yu Chen

3-019. Lily Goldberg

Functional Validation of SCD Alloimmunization Susceptibility Locus Gene ADRA1B in the Spleen

Washington University in St. Louis (Missouri)

Preceptor: Dr. Neil Hanchard

3-020. Madison Hernandez

CRISPR-Mediated Base Editing of the Irish Infantile Tay-Sachs Mutation

University of Texas at the Permian Basin (Texas)

Preceptors: Dr. Cynthia Tifft, Dr. Richard Proia

3-021. Anna Hilliard

A Survey-Based Evaluation of the "Science of Science Communication" Scientific Interest Group

Case Western Reserve University (Ohio)

Preceptor: Dr. Chris Gunter

3-022. Mahin Hossain

Exploring mechanisms of dysmyelination and neurodegeneration in a murine model of lysosomal Free Sialic Acid Storage Disorder

Ohio State University (Ohio)

Preceptors: Dr. May Malicdan, Dr. William Gahl

3-023. Annette Iturralde Guerrero

Determining the functional domains of anti-CRISPR protein AcrIIA4 using a high-throughput deletion scan

New Mexico State University (New Mexico)

Preceptor: Dr. Meru Sadhu

3-024. Tiffany Jackson

Community-Based Participatory Research: A Model for Patient Education

University of Maryland, College Park (Maryland)

Preceptor: Mr. Vence Bonham

3-025. Jillian Jetmore

Influenza Infection in Lung Epithelial Cells Affected by Leigh Syndrome

University of Richmond (Virginia)

Preceptors: Dr. Peter McGuire, Dr. Amanda Fuchs

3-026. Riley Johnson

Expansion of TAOK1 Related Developmental Delay Etiology

Murray State University (Kentucky)

Preceptors: Dr. Precilla D'Souza, Dr. Cynthia Tifft

* Denotes that poster number was updated after the index was completed

3-027. Amra Kajdic

Clinical Hematologic Manifestations of Patients with RUNX1-Familial Platelet Disorder

University of North Florida (Florida)

Preceptors: Dr. Paul Liu, Dr. Erica Bresciani

3-028. Elisa Kucevic

Phenotyping individuals with incidentally identified cardiovascular genomic variants

Davidson College (North Carolina)

Preceptor: Dr. Julie Sapp

3-029. Akhil Kulkarni

Using Gene Therapy to Treat Neuronopathic Gaucher Disease

Georgia Institute of Technology (Georgia)

Preceptors: Dr. Ellen Sidransky, Dr. Tae-Un Han

3-030. Mackenzie Landreth

A novel knockout mouse lacking Lyst recapitulates human Chediak-Higashi syndrome with earlier-onset neurodegeneration paving the way for targeted therapeutics

Hollins University (Virginia)

Preceptor: Dr. May Christine Malicdan

3-031. Madison LaRoche

Utilizing bleomycin to model pulmonary fibrosis in a novel mouse model of Hermansky-Pudlak Syndrome type 1

Virginia Tech (Virginia)

Preceptors: Dr. May Malicdan, Dr. William Gahl

3-032. Connor Lewis

Differential Tractography, a Novel Biomarker Correlates with Clinical Outcomes in Gene Therapy for GM1 Gangliosidosis Patients

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Maria Acosta, Dr. Cynthia Tifft

3-033. Charis Ma

Generation of GBA1 isogenic iPSC lines to investigate the pathogenesis of GBA1-associated Parkinson Disease

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Ellen Sidransky, Dr. Yu Chen

3-034. Erin Mansell

Utilizing CRISPR prime editing to investigate relevance of diabetes-associated variant in PIEZO1

Davidson College (North Carolina)

Preceptors: Dr. Francis Collins, Dr. Lori Bonnycastle

3-035. Kade McCulloch

Exploring determinants of follow-up in FH-related secondary genomic variants

Davidson College (North Carolina)

Preceptors: Dr. Leslie Biesecker, Dr. Julie Sapp

* Denotes that poster number was updated after the index was completed

3-036. Jason McFadden

A potential novel biological function of the multicopper ferroxidase, Hephaestin-like 1

Dartmouth College (New Hampshire)

Preceptor: Dr. May Christine Malicdan

3-037. Mark Moran

Preliminary results on MRI studies in Glb1 mice: Anatomical and MRS comparisons between Knock-out and Wild-Type mice

Arizona Christian University (Arizona)

Preceptors: Dr. Cynthia Tiffy, Dr. Maria Acosta

3-038. Allyson Motter

Fine-mapping an alloimmunization GWAS locus in sickle cell disease using multi-modal single cell sequencing in stimulated PBMCs

University of Virginia (Virginia)

Preceptor: Dr. Neil Hanchard

3-039. Priya Mukhi

Anticipatory Planning and Grief: Experiences of Juvenile Batten Disease (CLN3) Caregivers

Cornell University (New York)

Preceptor: Dr. Laura Koehly

3-040. Angel Murray

Poor Sleep Quality and Depression in the Rare Disease Caregiving Context

Towson University (Maryland)

Preceptors: Dr. Laura Koehly, Dr. Darryl Murray

3-041. Wiljeen Paul

Potential model for personalized Medicine: Patient iPSC-Derived Organoids

Pomona College (California)

Preceptors: Dr. May Malicdan, Dr. William Gahl

3-042. Crystal Peterson

Context of Health Information Technology Use and Telehealth Uptake in Relation to Patient-Provider Communication in those Living With and Without a Chronic Health Condition

Virginia Commonwealth University (Virginia)

Preceptor: Mx. Susan Persky

3-043. Aidan Pintuff

Improving Familial Platelet Disorder Patient Care: Characterizing Germline RUNX1 Variant Pathogenicity

Western Washington University (Washington)

Preceptors: Dr. Catarina Menezes, Dr. Paul Liu

3-044. Gabriela Ramirez-Renta

Analysis of Genetic Literacy and Social Modifiers

University of Puerto Rico - Cayey Campus (Puerto Rico)

Preceptor: Dr. Chris Gunter

* Denotes that poster number was updated after the index was completed

3-045. Jared Redmond

Assessing the Feasibility of SNP Genotyping from Serum Samples

University of Miami (Florida)

Preceptor: Dr. Neil Hanchard

3-046. Krystyna Rytel

Multiomic analysis of iPSC-derived neurons from pairs of siblings with Gaucher disease discordant for Parkinson disease

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Ellen Sidransky, Dr. Ellen Hertz

3-047. Peter Sauer

Investigating Sex-Biased Susceptibility in Autoimmune Diseases

Carnegie Mellon University (Pennsylvania)

Preceptor: Dr. Joshua Denny

3-048. Melissa Schlein

Antibody response to the pneumococcal vaccine in children with mitochondrial disease

University of Alabama (Alabama)

Preceptors: Dr. Peter McGuire, Dr. Eliza Gordon-Lipkin

3-049. Sophie Scobell

Investigating Evolutionary Patterns of a Bacterial Anti-phage Defense System in High-Throughput

Wesleyan University (Connecticut)

Preceptor: Dr. Meru Sadhu

3-050. Diba Seddighi

Influence of Social Networks on Community-Based Participatory Research

University of Tennessee, Knoxville (Tennessee)

Preceptor: Mr. Vence Bonham

3-051. John Selser

Hypomorphic Model of MMAB Deficiency: Resistance to Lethality from Dietary Challenge Conferred by Systemic AAV Gene Therapy

Johns Hopkins University (Maryland)

Preceptors: Dr. Charles Venditti, Dr. Eun-Young Choi

3-052. Kathryn Spears

A Model for Urine Creatinine Assays in Alkaptonuria

Vanderbilt University (Tennessee)

Preceptor: Dr. Wendy Introne

3-053. Abhirami Thaivalappil

Cell-free DNA As A Novel Biomarker For Disease Progression And Response To Treatment In Hutchinson-Gilford Progeria Syndrome

University of Maryland, College Park (Maryland)

Preceptor: Dr. Wayne Cabral

* Denotes that poster number was updated after the index was completed

3-054. Yeabsira Tufa
PheWAS of MTHFR C677T Reveals Lack of Clinical Utility
Towson University (Maryland)
Preceptors: Dr. Clesson Turner, Dr. Caralynn Wilczewski

3-055. Cassia Williams-Rogers
Phenome-wide Studies of Hereditary Transthyretin Amyloidosis in the All of Us Research Program
Carnegie Mellon University (Pennsylvania)
Preceptors: Dr. Huan Mo, Dr. Clesson Turner

3-056. Zoe Wolfenson
Novel Variants in the CACNA1B Gene: A Case Presentation of Neurodevelopmental Disorder with Seizures and Nonpileptic Hyperkinetic Movements
Lehigh University (Pennsylvania)
Preceptor: Dr. William Gahl

3-057. Dinie Zheng
Characterization of Type II-A Anti-CRISPR Genes
Princeton University (New Jersey)
Preceptor: Dr. Meru Sadhu

NIDA - National Institute on Drug Abuse (Posters 3-058 – 3-113)

3-058. Valeria Acosta
Glucocorticoid receptor modulation decreases alcohol self-administration in alcohol dependent female rats
Wesleyan University (Connecticut)
Preceptors: Dr. George Koob, Dr. Leandro Vendruscolo

3-059. Hannah Alton
Evidence Against a Functional Interaction Between CB1 Cannabinoid and Mu Opioid Receptors
Harvard University (Massachusetts)
Preceptor: Dr. Zheng-Xiong Xi

3-060. Ana Armenta Vega
Mouse model of operant oral nicotine self-administration
University of California, Davis (California)
Preceptors: Dr. Satoshi Ikemoto, Dr. Yosuke Arima

3-061. Ilana Ascher
Role of Orbitofrontal Cortex in Implementing Contradictory Behavioral Schemas
Oberlin College (Ohio)
Preceptors: Dr. Geoffrey Schoenbaum, Dr. Ido Maor

3-062. James Atwell
Representations of contradictory schemas in the orbitofrontal cortex during continuous learning
St. Mary's College of Maryland (Maryland)
Preceptors: Dr. Geoffrey Schoenbaum, Dr. Thorsten Kahnt

* Denotes that poster number was updated after the index was completed

3-063. Mattingly Bartole

Exploring the Neurochemical Actions of Psychostimulants on Dopamine Dynamics in the Nucleus Accumbens of Male and Female Mice Using FSCV

University of Miami (Florida)

Preceptors: Dr. Gianluigi Tanda, Dr. Melinda Hersey

3-064. Owura Berko

In vivo labeling and molecular characterization of cocaine memory-specific active neurons using the photo-convertible calcium integrator CaMPARI2

University of Maryland College Park (Maryland)

Preceptors: Dr. Bruce Hope, Dr. Rajtarun Madangopal

3-065. Hannah Bonbrest

An operant procedure to study choice between rewarding physical activity and heroin in male and female rats

University of Rochester (New York)

Preceptor: Dr. Yavin Shaham

3-066. Selim Boukabara

Cannabis Use Disorder is Associated with Observable Changes in Alcohol Withdrawal Symptoms

University of Maryland, College Park (Maryland)

Preceptors: Dr. Lorenzo Leggio, Dr. Garrick Sherman

3-067. Nicolaus Bruns

The Role of the Mineralocorticoid Receptor in Alcohol Binge-like Drinking in Mice

Miami University (Ohio)

Preceptors: Dr. Lorenzo Leggio, Dr. Leandro Vendruscolo

3-068. Reece Budinich

Examining the Mu Opioid Receptor-Dependent Effects of (R)-ketamine

Western Washington University (Maryland)

Preceptors: Dr. Michael Michaelides, Dr. Marjorie Levinstein

3-069. Yurim Chae

Methylphenidate and R-modafinil, two FDA-approved psychostimulants for treating ADHD and narcolepsy, differentially alter impulsive choice decision in rats

Cornell University (New York)

Preceptor: Dr. Hui Shen

3-070. Paras Chand

Characterization of Vaping and Non-vaping Teens in the Baltimore area

University of Cambridge (United Kingdom)

Preceptor: Dr. Betty Jo Salmeron

3-071. Fallon Curry

Temporal Dynamics of Synaptic Zinc and Dopamine in the Ventral Striatum

Virginia Tech (Virginia)

Preceptors: Dr. Mike Michaelides, Dr. Oscar Solis Castrejon

* Denotes that poster number was updated after the index was completed

3-072. Douglas Deutsch

Orbitofrontal Cortex Encodes Transitivity during the Economic Choice Task

Davidson College (North Carolina)

Preceptors: Dr. Geoffrey Schoenbaum, Dr. Thomas Stalnaker

3-073. Dahlia Earleywine

Patient Satisfaction in Therapy Predicts SUD Treatment Outcomes

University of Southern California (California)

Preceptor: Dr. Brenda Curtis

3-074. Zachary Fried

Evaluating Generative AI Responses to Real-world Drug-Related Questions

Oregon State University (Oregon)

Preceptors: Dr. Brenda Curtis, Dr. Salvatore Giorgi

3-075. Yugantar Gera

Neurobiological substrates underlying persistent discriminative stimulus-controlled cocaine seeking

Clemson University (South Carolina)

Preceptors: Dr. Bruce Hope, Dr. Rajtarun Madangopal

3-076. Beyonce Getachew

Orexinergic input to the supramammillary nucleus modulates seeking behavior in mice

University of Maryland Baltimore County (Maryland)

Preceptors: Dr. Yosuke Arima, Dr. Satoshi Ikemoto

3-077. Joseph Glanzberg

Exploring Individual Differences in Neural Representation of Food and Drug Reward

Carnegie Mellon University (Pennsylvania)

Preceptor: Dr. Da-Ting Lin

3-078. Danielle Goldbaum

A subset of Dorsal Raphe glutamatergic neurons relays rewarding information to the Ventral Tegmental Area

Colgate University (New York)

Preceptors: Dr. Marisela Morales, Dr. Ivan Osnaya

3-079. Noelle Henein

Examining the role of memory in transitive economic choice

Mercer University (Georgia)

Preceptors: Dr. Thorsten Kahnt, Dr. Avinash Vaidya

3-080. Emily Herberholz

Adverse childhood experiences and adult psychiatric symptoms: a latent-class analysis

University of Maryland, College Park (Maryland)

Preceptor: Dr. David Epstein

* Denotes that poster number was updated after the index was completed

3-081. Alexandra Hicks

The Role of the D1R-D3R Heteromer in Locomotion

University of Michigan (Michigan)

Preceptor: Dr. Sergi Ferre

3-082. Samantha Hoffman

Focal transcranial magnetic stimulation of rat mPFC reduces the motivation for cocaine intake and relapse to cocaine-seeking behavior.

University of Minnesota - Twin Cities (Minnesota)

Preceptors: Dr. Hanbing Lu, Dr. Yihong Yang

3-083. Anika Holton

Using Hierarchical Drift Diffusion Modeling to Understand Decision-Making and Reward Responsiveness in People Who Use Nicotine

American University (District of Columbia)

Preceptors: Dr. Amy Janes, Dr. Kathryn Biernacki

3-084. Sharmin Islam Souleimanova

The Effects of White Matter Hyperintensities in Asymptomatic Individuals on Resting Functional Connectivity and White Matter Tract Integrity

University of Texas at Austin (Texas)

Preceptor: Dr. Betty Jo Salmeron

3-085. Kelsey Isman

The Impact of Cultural Differences Across American Communities on the Opioid Epidemic

Wesleyan University (Connecticut)

Preceptors: Dr. Brenda Curtis, Dr. Salvatore Giorgi

3-086. Claire Jones

Investigating Neurochemical Changes in the Rat Mesolimbic Pathway After Administration of a Novel mGluR5 Allosteric Modulator

Michigan State University (Michigan)

Preceptor: Dr. Gian Tanda

3-087. Taaseen Khan

Characterizing knowledge of task structure using explicit judgement versus task performance

Vanderbilt University (Tennessee)

Preceptors: Dr. Thorsten Kahnt, Dr. Avinash Vaidya

3-088. Benjamin Kilgore

Monitoring neuronal activity dynamics between the BNST and LH

University of Tennessee- Knoxville (Tennessee)

Preceptors: Dr. Yeka Aponte, Dr. Pamela Miranda-Tapia

* Denotes that poster number was updated after the index was completed

3-089. Hannah Kim

The role of lateral hypothalamic GABAergic neurons in thermoregulation

University of California, San Diego (California)

Preceptors: Dr. Aketzali Garcia, Dr. Yeka Aponte

3-090. Jessica Kuo

Tracking Nucleus Accumbens D1/D2 Neurons and Motivation Using miniScopes and Deep Learning

Pomona College (California)

Preceptor: Dr. Da-Ting Lin

3-091. Samantha Lee

Exploring the role of the prefrontal cortex in volitional social reward learning

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Bruce Hope, Dr. Leslie Ramsey

3-092. Sabrina Lin

Transcranial Magnetic Stimulation of Dorsal Striatum Circuits in Relapse to Oxycodone Seeking

University of California, San Diego (California)

Preceptors: Dr. Zilu Ma, Dr. Yihong Yang

3-093. Emily Linz

Deletion Mu Opioid Receptors from Astrocytes Fails to Alter Opioid Reward and Analgesia

University of Connecticut (Connecticut)

Preceptor: Dr. Zheng-Xiong Xi

3-094. Samuel Lucero

Neural Correlates of Alexithymia

University of California, San Diego (California)

Preceptors: Dr. Amy Janes, Dr. Betty Jo Salmeron

3-095. Alexander Maitland

Reinforcing effects of fentanyl analogs found in illicit drug markets

University of Michigan (Michigan)

Preceptor: Dr. Michael Baumann

3-096. Aniah Matthews

Xylazine potentiates fentanyl induced respiratory depression

Howard university (District of Columbia)

Preceptors: Dr. Renata Marchette, Dr. Leandro Vendruscolo

3-097. Nicole Moussa

Investigating behavioral signs of structure learning during a generalization task

Oregon State University (Oregon)

Preceptors: Dr. Thorsten Kahnt, Dr. Avinash Vaidya

* Denotes that poster number was updated after the index was completed

- 3-099. Henry Oo
Central Amygdala Neuronal Subsets as Targets for Glucocorticoid Action: Possible Modulation of Opioid-Related Behaviors in Mice
Macalester College (Minnesota)
Preceptors: Dr. Lucas Tortorelli, Dr. Leandro Vendruscolo
- 3-099. Pamela Osseyi
From Black Butterfly to White L: Decoding Urban Segregation's Toll on Health
Morgan State University (Maryland)
Preceptor: Dr. Brenda Curtis
- 3-100. Precious Oyinloye
Advancing Antidepressant Discovery through Novel Machine Learning-Based QSAR Modeling
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Lei Shi, Dr. Kuo Hao Lee
- 3-101. Caleb Park
Schema Cells in Rat Hippocampus
Emory University (Georgia)
Preceptors: Dr. Geoffrey Schoenbaum, Dr. Wenhui Zong
- 3-102. Kayla Pitts
A rat model of operant negative reinforcement in opioid-dependent males and females
University of Washington (Washington)
Preceptor: Dr. Yavin Shaham
- 3-103. Annika Quam
Comparing Data-Driven Resting-State Connectivity Networks in Individuals Who Do and Not Use Drugs
Vanderbilt University (Tennessee)
Preceptor: Dr. Amy Janes
- 3-104. LeeOdella Sands
Sigma-1 receptor knockdown in the amygdala attenuates opioid-induced hyperalgesia.
University of Maryland Baltimore County (Maryland)
Preceptors: Dr. Tsung-Ping Su, Dr. Hsiang-En Wu
- 3-105. Eve Thao
Effects of iTBS on rsfMRI and functional connectivity using graph theory
University of Minnesota (Minnesota)
Preceptor: Dr. Betty Jo Salmeron
- 3-106. Elizabeth Tressler
Role of the GLP-1 receptor agonist semaglutide in fentanyl self-administration in mice
University of Minnesota - Twin Cities (Minnesota)
Preceptors: Dr. Lorenzo Leggio, Dr. Leandro Vendruscolo

* Denotes that poster number was updated after the index was completed

3-107. Emem Ukpong

Changes in Ribosomal Proteins S6 and Calcineurin in the Nucleus Accumbens Synapses Following Cocaine and Cue-induced Food Seeking

Georgia State University (Georgia)

Preceptor: Dr. Javier Rubio

3-108. Yuewen Wang

Relationship between Impulsivity and Mental Disorders in Adolescents

University of California, San Diego (California)

Preceptor: Dr. Yihong Yang

3-109. Julia Welsh

Differences in Brain-Based Low-Frequency Oscillations Across Individuals Who Use Nicotine

Harvard University (Massachusetts)

Preceptor: Dr. Amy Janes

3-110. Rachel Wolchok

Patterns of substance use in a nationwide sample of adults empirically clustered by types of adverse childhood experiences (ACEs)

Oberlin College (Ohio)

Preceptor: Dr. David Epstein

3-111. Sung Joon Won

Exploring the Structure-Activity Relationship of the Dopamine D3-selective Ligands Using Machine and Deep Learning Approaches

College of William & Mary (Virginia)

Preceptor: Dr. Lei Shi

3-112. Kareem Woods

Development of Multiplexed Population Selection and Enrichment single nucleus RNA-sequencing (XPoSE-seq) to study transcriptional programs of neuronal ensembles and other rare populations

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Bruce Hope, Dr. Katherine Savell

3-113. Maria Zarcone

Targeting the Orexin System in Choice between Remifentanil and Food Reward in Squirrel Monkeys

Fordham University (New York)

Preceptor: Dr. Charles Bradberry

NINDS- National Institute of Neurological Disorders and Stroke (A-I) (Posters 3-114 – 3-139)

3-114. Annika Backer

Modulation of Serotonin Transport by Chloride Ions Examined using Molecular Simulations

Smith College (Massachusetts)

Preceptors: Dr. Lucy Forrest, Dr. Eva Hellsberg

* Denotes that poster number was updated after the index was completed

- 3-115. Emily Baniewicz
Morphology of Traumatic Microbleeds Imaged with 7T MRI Demonstrates Persistent Pathological Characteristics
University of South Carolina (South Carolina)
Preceptors: Dr. L. Christine Turtzo, Dr. Lawrence Latour
- 3-116. Avery Bauman
Spatial Working Memory and the Role of Somatostatin Receptor Antagonist in the Medial Prefrontal Cortex
Vassar College (New York)
Preceptors: Dr. Dave Kupferschmidt, Miss Madeline Hsiang
- 3-117. Devin Bishop
Disruption of iron homeostasis in a transgenic mouse linked to stuttering disorders
Western Washington University (Washington)
Preceptor: Dr. Shahriar Sheikhabaei
- 3-118. Camryn Bragg
Exploring Sleep Deprivation and Iron Homeostasis in a Mouse Model for Developmental Stuttering
College of Wooster (Ohio)
Preceptor: Dr. Shahriar Sheikhabaei
- 3-119. Hector Cancel
Multi-Modal Correlation Approach of 7T MRI, OCT, and PEM in Multiple Sclerosis
University of Puerto Rico Bayamon (Puerto Rico)
Preceptor: Dr. Maria Gaitan
- 3-120. Diobenhi A. Castellanos
Expression patterns of HML-2 in neural differentiation
University of Texas at Austin (Texas)
Preceptors: Dr. Avindra Nath, Dr. Darshan Pandya
- 3-121. Kyle Cekada
The medial entorhinal cortex responds to novel environments during spatial navigation
California Polytechnic State University, San Luis Obispo (California)
Preceptor: Dr. Yi Gu
- 3-122. Sean Chen
Visualization of APEX2 Tagged Endogenous CaMKII in Hippocampal Synapses with STEM Tomography
University of Southern California (California)
Preceptors: Dr. Thomas Reese, Dr. Xiaobing Chen
- 3-123. Stephanie Choi
Signs of Neurodegeneration in Long COVID-19 Patients
University of Maryland College Park (Maryland)
Preceptors: Dr. Avi Nath, Dr. Myoung-Hwa Lee

* Denotes that poster number was updated after the index was completed

3-124. Rishi Deshmukh

Modeling TMEM106B fibril protein aggregates associated with frontotemporal dementia in iPSC derived neurons

University of Pittsburgh (Pennsylvania)

Preceptor: Dr. Michael Ward

3-125. Meena Deshpande

Impacts of In Vivo Ventral Hippocampal-Prefrontal Microcircuit Plasticity on Interneuron Population Activity and Spatial Cognition in Mice

University of Illinois Urbana-Champaign (Illinois)

Preceptors: Dr. Joshua Gordon, Dr. David Kupferschmidt

3-126. Terilyn Do

Targeting of the neuroligin-3 intracellular domain to the nucleus

University of California, Davis (California)

Preceptor: Dr. Katherine Roche

3-127. Abaigeal Donaldson

Expansion of EBV Peptide-Specific CD8 T Cells from Multiple Sclerosis Patients and Healthy Donors Reveals Dysregulation of Effector Responses

Colgate University (New York)

Preceptor: Dr. Steven Jacobson

3-128. Katherine Dore

Investigating an ALS-linked CHCHD10 Variant in an iPSC Model

Luther College (Iowa)

Preceptor: Dr. Derek Narendra

3-129. Ariana Duckett

The GENFI Motor Score Enhances Sensitivity of Disease Severity Scores in Frontotemporal Dementia

Spelman College (Georgia)

Preceptors: Dr. Justin Kwan, Dr. Allison Snyder

3-130. Celine Ertekin

Role of WASF2 in Glioblastoma tumor biology

University of California, Santa Cruz (California)

Preceptor: Dr. Yesh Banasavadi

3-131. Mmasinachi Ezuma-Ngwu

Analyzing the Skeletal Muscle Transcriptome in SBMA

University of Maryland College-Park (Maryland)

Preceptor: Dr. Christopher Grunseich

3-132. Kianna Gibson

Diversity of Basal Forebrain Cholinergic Neurons in Response to Emotional Stimuli

Oakwood University (Alabama)

Preceptors: Dr. Lorna Role, Dr. David Talmage

* Denotes that poster number was updated after the index was completed

3-133. Danielle Greene

Living in the Dream: Exploring the Relationship between Lucid Insight in Dreams and Sleep Prefrontal Cortex Functional Correlations

Wesleyan University (Connecticut)

Preceptors: Dr. Jeff Duyn, Dr. Dante Picchioni

3-134. Matthew Greenwald

Interpreting the Written Symbol Digit Modalities Test in Multiple Sclerosis: Insights on Aging, Learning and Dual Disability Progression

Duke University (North Carolina)

Preceptor: Dr. Maria Gaitan

3-135. Jaskaran Grewal

Radiological-Histopathological Correlation to Study the Progression of Progressive Multifocal Leukoencephalopathy

Lafayette College (Pennsylvania)

Preceptor: Dr. Irene Cortese

3-136. Jin Haugland

Muscle ultrasound as a potential biomarker in patients with LAMA2-Related Dystrophy under 6 years of age

George Washington University (District of Columbia)

Preceptors: Dr. Carsten Bönnemann, Dr. Rotem Orbach

3-137. Katrina Hospes

Type III Neuregulin-1 alters mitochondrial transport in axons of the developing ventral hippocampus

University of Maryland - College Park (Maryland)

Preceptors: Dr. Lorna Role, Dr. Dana Freeman

3-138. Kevin Hu

Computational Pipeline to Align Ultra-High Field Postmortem and In Vivo Brain MRIs

University of Maryland, College Park (Maryland)

Preceptors: Dr. Daniel Reich, Dr. Govind Bhagavatheeshwaran

3-139. Elianna Israel

Sex Differences Following Bilateral Subthalamic Nucleus Deep Brain Stimulation Surgery in Parkinson's Disease

University of Michigan (Michigan)

Preceptors: Dr. Debra Ehrlich, Dr. Irene Dustin

* Denotes that poster number was updated after the index was completed

Wednesday, May 1, 2024

Session 4: 3:00 p.m. – 4:15 p.m. (ET) (Posters 4-001 – 4-140)

NEI - National Eye Institute (Posters 4-001 – 4-017)

4-001. Chloe Adams

PROFILIN-1 is expressed in human retinal pigment epithelium and is localized at the apical microvilli

Lafayette College (Pennsylvania)

Preceptors: Dr. Brian Brooks, Dr. Aman George

4-002. Rachel Aguda

Investigating Coloboma Pathogenesis of Netrin1 vis Its Receptor Unc5b

University at Buffalo, SUNY (New York)

Preceptors: Dr. Brian Brooks, Dr. Uma Neelathi

4-003. Samyuktha Arunkumar

Dissecting adaptive and innate stimuli from commensal gut microbiota that trigger autoimmune uveitis.

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Reiko Horai, Dr. Rachel Caspi

4-004. Casey Cargill

3D bioprinted model of outer blood retinal barrier to investigate the role of fibroblasts age in choriocapillaris angiogenesis and RPE maturation

Florida State University (Florida)

Preceptors: Dr. Kapil Bharti, Dr. Ruchi Sharma

4-005. Amy Chen

The origin of NRL from the MAF family of transcription factors in Chordata

Taipei Medical University (Taiwan)

Preceptor: Dr. Anand Swaroop

4-006. Maxwell Foote

Non-synaptic mechanism of ocular dominance plasticity

Colgate University (New York)

Preceptors: Dr. Wei Li, Dr. R. Douglas Fields

4-007. Sophia Ibargüen

A functional assessment of the EphA10 receptor in the murine visual pathway via comprehensive behavioral and morphological analyses

University of California, Los Angeles (California)

Preceptors: Dr. Anand Swaroop, Dr. Jacob Nellisery

4-008. Noah Lasky-Nielson

Decoding the Neural Mechanisms Underlying Color-Shape Associations

Brandeis University (Massachusetts)

Preceptor: Dr. Bevil Conway

* Denotes that poster number was updated after the index was completed

4-009. Andreanna Le

Structural and function characteristics of vitelliform macular dystrophy in a pediatric cohort

University of Maryland, College Park (Maryland)

Preceptor: Dr. Laryssa Huryn

4-010. Michael Liew

Exploring the role of brain parenchymal CD8+ T cells in Alzheimer's Disease

Johns Hopkins University (Maryland)

Preceptor: Dr. Han-Yu Shih

4-011. Keren Melendez Fernandez

Analysis of Primary Cilia Phenotypes in Patient-Derived iPSC-RPE

University of Puerto Rico Rio Piedras Campus (Puerto Rico)

Preceptor: Dr. Kapil Bharti

4-012. Ali Otadi

Optimizing the differentiation process of induced Pluripotent Stem Cell-derived Retinal Pigment Epithelium

University of British Columbia (Canada)

Preceptors: Dr. Ruchi Sharma, Dr. Kapil Bharti

4-013. Ananya Pathapadu

Long-term Atrophy Expansion Rates in a Prospective, Longitudinal, Study of ABCA4 Retinopathy using Ultra-Widefield Fundus Autofluorescence

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Brian Brooks, Dr. Brett Jeffrey

4-014. Katherine Patterson

Localization of Toll-like Receptors and Intracellular Lipid Droplets in an anaphylatoxin-induced AMD model in iPSC-derived retinal pigment epithelium

Florida Gulf Coast University (Florida)

Preceptors: Dr. Kapil Bharti, Dr. Ruchi Sharma

4-015. Daniel Sanchez-Mendoza

Identifying Novel Coloboma-Causing Gene Candidates Through a Cross-Species Meta Analysis

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Uma Neelathi, Dr. Brian Brooks

4-016. Sarah Toay

Molecular mechanism and effect of double mutations on tyrosinase protein stability and ligand binding

Grinnell College (Iowa)

Preceptors: Dr. Yuri Sergeev, Dr. Monika Dolinska

4-017. Dylan Walmsley

Modeling Macular and Peripheral Retinal Pigment Epithelial Cells in a Dish

Washington and Lee University (Virginia)

Preceptors: Dr. Davide Ortolan, Dr. Kapil Bharti

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NIAAA - National Institute on Alcohol Abuse and Alcoholism (Posters 4-018 – 4-053)

4-018. Amira Ahamed

Utilizing fMRI to Analyze the Associations Between Alexithymia and Individuals with Alcohol Use Disorder

University of Maryland, College Park (Maryland)

Preceptor: Dr. Abdolreza Momenan

4-019. Avery Arsenault

Polysubstance Use: How Alcohol, Nicotine and Other Substances Impact Mental Health and Quality of Life During the COVID-19 Pandemic

The University of Texas at Austin (Maryland)

Preceptors: Dr. Bethany Stangl, Dr. Nancy Diazgranados

4-020. Mikayla BergWood

Perceived Stress, Drinking to Cope and the Association Between Childhood Trauma and Loss of Behavioral Control Over Alcohol Use

University of Michigan- Ann Arbor (Michigan)

Preceptors: Dr. Vijay Ramchandani, Dr. Bethany Stangl

4-021. Hrishikesh Bhagwat

Role of basolateral amygdala astrocyte calcium signaling in fear

University of Michigan (Michigan)

Preceptors: Dr. Andrew Holmes, Dr. Olena Bukalo

4-022. Nathaniel Burkard

Preclinical Positron Emission Tomography study of [11C]fentanyl

University of Wisconsin-Madison (Wisconsin)

Preceptors: Dr. Sunny Kim, Dr. Nora Volkow

4-023. Olivia Carpenter

Gating of fear acquisition by intercalated cells of the amygdala

Vassar College (New York)

Preceptors: Dr. Andrew Holmes, Dr. Olena Bukalo

4-024. Coralys Cintron

Effect of Low-Fat, High-Fat, and Chow Diet in Tongue Inflammation and its Impact on the Oral Microbiome

Universidad del Sagrado Corazon (Puerto Rico)

Preceptors: Dr. Paule Joseph, Dr. Khushbu Agarwal

4-025. Nevin Crow

NECAB2 expression on BLA GABAergic interneurons and its role in CB1R mediated fear acquisition and extinction

Belmont University (Tennessee)

Preceptor: Dr. Andrew Holmes

* Denotes that poster number was updated after the index was completed

- 4-026. Eve Cullins
Neurocircuitry and Neuroendocrine Responses of Individuals with Comorbid Alcohol Use Disorder and Post-Traumatic Stress Disorder
Purdue University (Indiana)
Preceptors: Dr. Tommy Gunawan, Dr. Vijay Ramchandani
- 4-027. Caleb Darden
Effects of chemogenetic modulation of medial septum glutamate neurons on theta oscillations during goal-directed behaviors
American University (District of Columbia)
Preceptor: Dr. Andrew Kesner
- 4-028. Marcel de Jesus Vega
Association of Urinary Metabolites with Olfactory Function in Adults: NHANES Study
Universidad de Puerto Rico Recinto de Rio Piedras (Puerto Rico)
Preceptors: Dr. Paule Joseph, Dr. Khushbu Agarwal
- 4-029. Morgan Ford
The Intersection of Substance Use Disorders and Legal Issues
Howard University (District of Columbia)
Preceptor: Dr. Reza Momenan
- 4-030. Michael Freaney
Receptor occupancy study of kratom alkaloids to investigate therapeutic potential for substance use disorder
University of Pittsburgh (Pennsylvania)
Preceptors: Dr. Sunny Kim, Dr. Nora Volkow
- 4-031. Jeff Goff
Amygdalar regulation of punished decision-making
University of Kansas (Kansas)
Preceptors: Dr. Andrew Holmes, Dr. Patrick Piantadosi
- 4-032. Jess Goldschlager
Taste Functioning in Autism Spectrum Disorder: A Scoping Review
University of Scranton (Pennsylvania)
Preceptors: Dr. Paule Joseph, Dr. Khushbu Agarwal
- 4-033. Marcelle Halfeld
Investigating the contributions of nucleus accumbens shell D1R and D2R spiny projection neurons to risky decision-making
Rutgers University (New Jersey)
Preceptors: Dr. Andrew Holmes, Dr. Patrick Piantadosi
- 4-034. Lizzie Hall
Taste and Smell in Obesity
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Paule Joseph

* Denotes that poster number was updated after the index was completed

4-035. Samantha Hoey

Potential use of iPSC-derived hepatocyte-like cells to develop precision medicine for ash

University of Michigan (Michigan)

Preceptors: Dr. David Goldman, Dr. Bani Mukhopadhyay

4-036. Teddy Koide

Influence of SLC39A8 rs13107325 Polymorphism on Alcohol Consumption and Response Phenotypes in AUD and Non-AUD Drinkers

Bates College (District of Columbia)

Preceptor: Dr. Vijay Ramchandani

4-037. Karli LeFort

Investigating the interaction between ALDH2 and cisplatin on factors of aging in the gut-liver-kidney axis.

University of Massachusetts Amherst (Massachusetts)

Preceptor: Dr. Byoung-Joon Song

4-038. Christina Lildharrie

Effects of Chronic Opioid Use on Respiratory Patterns and Related Brain Arousal Nuclei

Drexel University (Pennsylvania)

Preceptors: Dr. Gene-Jack Wang, Dr. Demiral Sukru

4-039. Meagan Marks

Chemogenetic modulation of medial septum glutamate neurons alters exploratory drive and acquisition of reward seeking behaviors

Wake Forest University (North Carolina)

Preceptor: Dr. Drew Kesner

4-040. Marinza Marzouk

Relationship of Taste and Smell Function with Alcohol Consumption Behaviors in Adult Population

University of California, Los Angeles (California)

Preceptors: Dr. Paule Joseph, Dr. Khushbu Agarwal

4-041. Heidi Meyer

A Person-Centered Approach to Capture Impulsivity Associations with Resilience, Problematic Drinking, and Quality of Life

Davidson College (North Carolina)

Preceptor: Dr. Jeremy Luk

4-042. Keita Morisaki

Characterizing the Impact of Single Amino Acid Substitutions on the Structure and Activity of Human Acetylcholinesterase (AChE)

Emory University (Georgia)

Preceptors: Dr. Qiaoping Yuan, Dr. David Goldman

* Denotes that poster number was updated after the index was completed

4-043. Sophie Mosley

Effects of endocannabinoid activity at basolateral amygdala astrocytes in fear and extinction

Georgia Institute of Technology (Georgia)

Preceptors: Dr. Andrew Holmes, Dr. Olena Bukalo

4-044. Nafisa Nawal

Infra-red Imaging of the Surface Temperature Patterns of the Human Tongue

Georgia State University (Maryland)

Preceptor: Dr. Paule Joseph

4-045. Tyler Perlstein

Assessing the Neuropsychiatric Profile of Fibroblast Growth Factor 21 (FGF21): A Drug-Target Mendelian Randomization Study

University of Maryland, College Park (Maryland)

Preceptor: Dr. Falk Lohoff

4-046. Joshua Reitz

Fibroblast growth factor 21 (FGF21) as a novel therapeutic target for cannabis use disorder

Brown University (Rhode Island)

Preceptor: Dr. Falk Lohoff

4-047. Noa Reuveni

Establishing a Vaporized Delta-9-Tetrahydrocannabinol Self-Administration Model in Mice

Utah State University (Utah)

Preceptor: Dr. Andrew Kesner

4-048. Daniel Schratz

Investigating the effects of received social support on severity of alcohol use disorder

Union College (New York)

Preceptor: Dr. Reza Momenan

4-049. Rishika Shah

Financial Well-Being and Impact on Alcohol and Mental Health Outcomes during the COVID-19 Pandemic

Arizona State University (Arizona)

Preceptors: Dr. Vijay Ramchandani, Dr. Bethany Stangl

4-050. Aurora Sheridan

A novel cAMP biosensor measures distinct cAMP modulation in D1 MSNs in the DLS and NAc during Pavlovian training

Pomona College (California)

Preceptor: Dr. Jeong Oen Lee

4-051. Samay Shivshankar

Pharmacological Evaluation of Cannabinoid (CB2R) Receptor 2 Modulators Using GRABeCB2.0 Based Sensor

Trinity University (Texas)

Preceptor: Dr. Malliga Iyer

* Denotes that poster number was updated after the index was completed

4-052. Jessica Sloane

Alcohol Priming's Impact on Heavy Drinkers' Ability to Resist Drinking During Intravenous Alcohol Self-Administration in the Human Laboratory

University of Wisconsin, Madison (Wisconsin)

Preceptors: Dr. Bethany Stangl, Dr. Vijay Ramchandani

4-053. Aaron Wozniak

Radiosynthesis of [11C] Fentanyl for Positron Emission Tomography

Emory University (Georgia)

Preceptors: Dr. Sunny Kim, Dr. Nora Volkow

NIAMS - National Institute of Arthritis and Musculoskeletal and Skin Diseases (Posters 4-054 – 4-076)

4-054. Brooke Boyd

A Novel Mutation in IRAK2 Results in Immune Dysregulation in Systemic Juvenile Idiopathic Arthritis (sJIA)

University of Miami (Florida)

Preceptor: Dr. Michael Ombrello

4-055. Sophia Chou

Involvement of Digenic IL-10 Pathway Mutations in the Development of Systemic Juvenile Idiopathic Arthritis

Vanderbilt University (Tennessee)

Preceptor: Dr. Michael Ombrello

4-056. Ryleigh Griffin

Investigating Skin Bacterial Strain Persistence in Children During Puberty

University of Maryland (Maryland)

Preceptors: Dr. Heidi Kong, Dr. Julie Segre

4-057. Patrick Hallaert

Adaptive T cell expansion drives spontaneous regression in Merkel cell carcinoma

McGill University (Canada)

Preceptor: Dr. Isaac Brownell

4-058. Micala Hammond

Paxbp1's role in CD4 T cell Programming

University of Tampa (Florida)

Preceptors: Dr. Danielle Chisolm, Dr. John O'Shea

4-059. Jordan Hicks

Genome-wide Association Study of Autoantibody Subsets in Systemic Sclerosis Identifies Novel Genes in the African American Population

Villanova University (Pennsylvania)

Preceptor: Dr. Pravitt Gourh

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4-060. Jordan Jarvis

POU4F3 is necessary for sensory Merkel cell development whereas POU4F1 is dispensable

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Isaac Brownell, Dr. Natasha Hill

4-061. Amy Kaneshiro

Proteomic Analysis Reveals Different Protein Modules and Functional Annotations with Clinical Traits in Juvenile Dermatomyositis (JDM) and Myositis-Specific Autoantibody (MSA) Group

Pomona College (California)

Preceptor: Dr. Hanna Kim

4-062. Paul Kim

Myeloid lineage trajectory analysis in skin using scRNAseq

Duke University (North Carolina)

Preceptor: Dr. Keisuke (Chris) Nagao

4-063. Morgan MacKenzie

Characterization of Muscle Regeneration in Aging Tissue: Patterns and Players

University of New Mexico (New Mexico)

Preceptors: Dr. Giulia Riparini, Dr. Vittorio Sartorelli

4-064. Jasmine Meltzer

WHIM syndrome increases susceptibility to dermatophyte infections

Clemson University (South Carolina)

Preceptors: Dr. Isaac Brownell, Dr. Natasha Hill

4-065. Jon Musai

Autoantibodies recognizing AIRE detected in anti-Mi2-positive dermatomyositis

University of Michigan (Michigan)

Preceptor: Dr. Andrew Mammen

4-066. Christopher O'Neill

Reprogramming of diabetic wounds by Sox2 triggers a pro-healing transcriptional signature

University of Virginia (Virginia)

Preceptor: Dr. Maria Morasso

4-067. Chloe Palmer

Comparison of neutrophil transcriptomes between bone marrow and peripheral blood in VEXAS syndrome

University of Vermont (Vermont)

Preceptor: Dr. Peter Grayson

4-068. Milan Stolpman

Interrogation of Polymicrobial Interactions in Skin-Like Media

University of Wisconsin-Madison (Wisconsin)

Preceptors: Dr. Heidi Kong, Mr. Clay Deming

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4-069. Karyssa Stonick

The Value of Anti-Collagen II Antibodies for the Diagnosis and Monitoring of Relapsing Polychondritis – a Retrospective Analysis

Portland State University (Oregon)

Preceptor: Dr. Peter Grayson

4-070. Grace Suh

Redefining the clinical features of Dedicator of Cytokines 8 deficiency: the NIH experience

University of Maryland, College Park (Maryland)

Preceptors: Dr. Heidi H. Kong, Dr. Alexandra F. Freeman

4-071. McKella Sylvester

Dissecting the differential response to IL-6 in patients with Giant Cell Arteritis

Colgate University (New York)

Preceptor: Dr. Peter Grayson

4-072. Taylor Talley

The Role of UGCG in T Cells

Spelman College (Georgia)

Preceptors: Dr. Tasha Morrison, Dr. John O'Shea

4-073. Devin Teehan

T-Cell Receptor Repertoire in the Pathogenesis of Systemic Sclerosis in African Americans: A Bioinformatic GLIPH-Hanger

Loyola University Maryland (Maryland)

Preceptor: Dr. Pravitt Gourh

4-074. Kevin Tovar

Investigating the role of lncRNAs in NK cell biology

Macalester College (Minnesota)

Preceptors: Dr. Tasha Morrison, Dr. John O'Shea

4-075. Jinny Van Doorn

Rapamycin treatment attenuates HLA-B27 mediated gut inflammation and alters microbiome in an experimental model of Spondyloarthritis

Yale University (Connecticut)

Preceptors: Dr. Robert Colbert, Dr. Fatemeh Navid

4-076. Ujana Zajmi

Peripheral Blood Transcriptomic Correlation with Clinical Traits in Juvenile Dermatomyositis (JDM) and the Top Myositis-Specific Autoantibody (MSA) Groups

Barnard College of Columbia University (New York)

Preceptor: Dr. Hanna Kim

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NIDCD - National Institute on Deafness and Other Communication Disorders (Posters 4-077 – 4-086)

4-077. Keith Abbey

In Vitro Validation of Novel Genome Editing Tools Targeting DFNA20

North Carolina State University (North Carolina)

Preceptors: Dr. Wade Chien, Dr. Mhamed Grati

4-078. Bethel Beyene

The Mechanism of the Generation of Mitochondrial Outer Membrane Potential

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Sergey Bezrukov, Dr. Megha Rajendran

4-079. Franz Gareza

Spiral Ganglion Neuron-specific Transcriptional Response to Cisplatin Treatment

University of Guam (Guam)

Preceptors: Dr. Lisa Cunningham, Dr. Cathy Sung

4-080. Israel Hernandez Rivera

Developmental Roles of GABA in the Cochlea

University of Puerto Rico at Cayey (Puerto Rico)

Preceptor: Dr. Catherine Weisz

4-081. Hannah Odom

Molecular Mapping of the Cochlea Using the Xenium In Situ Platform

Georgia Institute of Technology (Georgia)

Preceptors: Dr. Ronna Hertzano, Mr. Christopher Shults

4-082. Prateek Raikwar

Gene Expression Analysis of the Developing Murine Vestibular Ganglion

University of Iowa (Iowa)

Preceptor: Dr. Doris Wu

4-083. Yommi Tadesse

Leveraging Zebrafish to Understand How Nrnx3 Drives Hair Cell Synapse Assembly

Agnes Scott College (Georgia)

Preceptor: Dr. Katie Kindt

4-084. Rohan Tonk

Investigating Protein Interactions Within the Inner Ear Mechano-electrical Transduction Complex

University of California, Los Angeles (California)

Preceptor: Dr. Angela Ballesteros

4-085. Lesly Umanzor

Exploring the Role of FOXJ1 in the Inner Ear

University of Maryland, College Park (Maryland)

Preceptors: Dr. Ronna Hertzano, Dr. Kathleen Gwilliam

* Denotes that poster number was updated after the index was completed

4-086. Brianna Walters

Using Cochlear Explants as a Tool to Examine Tgfbr1 Role in the Developing Cochlea.

Tuskegee University (Alabama)

Preceptors: Dr. Matthew Kelley, Dr. Braulio Peguero

NINDS- National Institute of Neurological Disorders and Stroke (J-Z) (Posters 4-087 – 4-137)

4-087. Mohini Johri

Midlife Vascular Risk Factors and Parkinson's Disease in the Atherosclerosis Risk in Communities (ARIC) Cohort

Duke University (North Carolina)

Preceptor: Dr. Rebecca Gottesman

4-088. Krishna Josyula

The Significance of FLAIR to the Accuracy of 7T Brain Lesion Segmentation Using Transfer Learning

University of Alabama at Birmingham (Alabama)

Preceptor: Dr. Govind Nair

4-089. Sylee Kanetkar

The Association of Late-life Depression with Brain Amyloid Deposition: The ARIC-PET Study

Purdue University (Indiana)

Preceptor: Dr. Rebecca Gottesman

4-090. Habeeb Kazimuddin

Comparisons of Magnetic Resonance Images (MRI) Acquired at Ultra-Low Field (0.067-Tesla) MRI and Standard Field (3-Tesla) MRI

Vanderbilt University (Tennessee)

Preceptor: Dr. Silvina Horovitz

4-091. Jessica Kearney

A Novel Approach to Reduce Autofluorescence of Red Blood Cells in Mouse Embryos Stained by Immunofluorescence

University of Tennessee, Knoxville (Tennessee)

Preceptor: Dr. Susan Wray

4-092. Adrian Koretsky

Exploring Ion Channel Interactions with Auxiliary Partners using Computational and Experimental Approaches

Brandeis University (Massachusetts)

Preceptors: Dr. Lucy Forrest, Dr. Kenton Swartz

4-093. Katherine Landry

Protecting Patients Starts With Optimizing Adverse Event Reporting in Neurological Clinical Trials

University of Maryland, College Park (Maryland)

Preceptors: Dr. Lauren Reoma, Mrs. Sandra Martin

* Denotes that poster number was updated after the index was completed

4-094. Sydney Lawton

Lysosome Location Alters TDP-43 Levels in iPSC-derived Neurons

University of Florida (Florida)

Preceptors: Dr. Michael Ward, Dr. Veronica Ryan

4-095. Maxwell Lichtenfeld

Contribution of semantic knowledge to visual change detection in the ventromedial temporal lobe

Vanderbilt University (Tennessee)

Preceptors: Dr. Kareem Zaghloul, Dr. Weizhen Xie

4-096. Sheryl Lin

Destainable Antibodies for Optical Pooled Screens in Neurons

Johns Hopkins University (Maryland)

Preceptor: Dr. Michael Ward

4-097. Alexandra Lombardo

The Rho-GEF Trio interacts with CRMP2 downstream of Semaphorin3A to regulate cytoskeletal dynamics

Agnes Scott College (Georgia)

Preceptor: Dr. Katherine Roche

4-098. Jennifer Lord

mTORC regulates protein synthesis on the surface of neuronal lysosomes

Washington University in St. Louis (Missouri)

Preceptors: Dr. Michael Ward, Dr. Andrii Kopach

4-099. Berit Lubben

Exon-skipping U7-based therapy to treat a COL6A1 associated congenital muscular dystrophy

Saint Louis University (Missouri)

Preceptors: Dr. Véronique Bolduc, Dr. Carsten Bönnemann

4-100. Delores Luttrell

Exploring the Relationship Between HIV, HERV-K, and Cellular Senescence

George Mason University (Virginia)

Preceptors: Dr. Lisa Henderson, Dr. Avindra Nath

4-101. Sahil Malhotra

Discrepancies between AAV8 Titering Methods: Implications for COLQ and DOK7 Gene Therapy

Duke University (North Carolina)

Preceptors: Dr. Pankaj Pathak, Dr. Carsten Bönnemann

4-102. Ava Mandel

Developing molecular tools to study the biology of PIKfyve: a lipid kinase that is a potential target for treating ALS

University of Rochester (New York)

Preceptor: Dr. Tamas Balla

* Denotes that poster number was updated after the index was completed

- 4-103. Taylor McDonald
Drug-induced activation on blood-tumor barrier integrity
Vanderbilt University (Tennessee)
Preceptor: Dr. Sadhana Jackson
- 4-104. Jahan Misra
siRNA-Mediated Allele-Specific Knockdown of Mutant Senataxin in ALS4
William & Mary (Virginia)
Preceptor: Dr. Christopher Grunseich
- 4-105. Ebuloluwa Morakinyo
Development of Conjugated siRNAs for Allele-Specific Silencing of Dominant-Negative COL6A1 Gly Substitutions Causing Collagen VI-Related Dystrophies.
Oregon State University (Oregon)
Preceptors: Dr. Astrid Brull Canagueral, Dr. Carsten Bonnemann
- 4-106. Andrew Nguyen
Exploring motor neuron-specific vulnerability in SMARD1 using iPSC-derived models
Duke University (North Carolina)
Preceptor: Dr. Christopher Grunseich
- 4-107. Shoshana Novik
Exploring the role of medial prefrontal cortex VIP interneurons in spatial working memory
Harvey Mudd College (California)
Preceptors: Dr. Maanasa Jayachandran, Dr. David Kupferschmidt
- 4-108. Sabrina Nusraty
Investigating the efficacy of C-MYC inhibition on survival in a glioblastoma mouse model
University of Maryland College Park (Maryland)
Preceptor: Dr. Desmond Brown
- 4-109. Sophia Ostergren
Role of NL2 c-tail deletion in psychological disorders
University of Minnesota (Minnesota)
Preceptors: Dr. Wei Lu, Dr. Saurabh Pandey
- 4-110. Geetika Patwardhan
Identifying unique mitochondrial-lysosome metabolite exchange mechanism in Niemann Pick disease type C
University of Hawai'i at Mānoa (Hawaii)
Preceptors: Dr. Zu-Hang Sheng, Dr. Joseph Roney
- 4-111. Abigail Potticary
Muscle Ultrasound findings in giant axonal neuropathy
Loyola University Maryland (Maryland)
Preceptor: Dr. Carsten Bonnemann

* Denotes that poster number was updated after the index was completed

4-112. Pritha Saha

The Mobile Clinical Research Unit (MCRU): Engaging Communities Underrepresented in Research

Johns Hopkins University (Maryland)

Preceptor: Dr. Silvina Horovitz

4-113. Heather Schneps

Intrinsic physiology of substantia nigra neurons in an ATP10B knockout mouse

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Zayd Khaliq, Dr. Ellen Sidransky

4-114. Starlina Shepard

The role of Allopregnanolone in GABAA receptor neuroadaptations in mice

Virginia Tech (Virginia)

Preceptor: Dr. Wei Lu

4-115. Ginger Smith

BCAS1 Expression in Disease-Associated Astrocytes in a Marmoset Model of Multiple Sclerosis

University of Virginia (Virginia)

Preceptor: Dr. Daniel Reich

4-116. Kirsten Snyder

Discovery, Characterization, and Optimization of a Novel Positive Allosteric Modulator-Antagonist of the D3 Dopamine Receptor

College of Charleston (South Carolina)

Preceptors: Dr. Amy Moritz, Dr. David Sibley

4-117. Leela Srinivasan

Spatial Clustering of MEG Distributed Source Estimates Reveals Propagation Patterns of Interictal Epileptiform Activity

University of California, Davis (California)

Preceptor: Dr. Sara Inati

4-118. Subhiksha Srinivasan

All-Optical Investigation of Corticopontine Adaptation for Cerebellar Learning

Lawrence University (Wisconsin)

Preceptors: Dr. Mark Wagner, Dr. Yingtao Liu

4-119. Emily Stack

Increased Spinal Cord Atrophy and Lower Brain Lesion Load Differentiates HAM/TSP from MS

Colgate University (New York)

Preceptors: Dr. Steven Jacobson, Dr. Govind Nair

4-120. Reid Suddaby

Visualization of macropinocytosis-mediated intracellular vesicular fusion using super-resolution microscopy

Wake Forest University (North Carolina)

Preceptors: Dr. Ling-Gang Wu, Dr. Sue Han

* Denotes that poster number was updated after the index was completed

4-121. Catrina Sullivan

Acute Cortical Lesions in Minor Ischemic Stroke Patients: Visual Cortical Thinning Confirmed by Gray Matter Loss Using Automated Quantitative Segmentation.

Eastern Connecticut State University (Connecticut)

Preceptors: Dr. Lawrence Latour, Dr. Marie Luby

4-122. Roy Sun

MRI of Cryopreserved Human Brain Slabs Preserves Molecular Integrity for Precise Histological Analysis

Johns Hopkins University (Maryland)

Preceptors: Dr. Govind Nair, Dr. Stephen Dodd

4-123. Milo Taylor

Towards a Formula for Disease Staging in Progressive Multifocal Leukoencephalopathy

Harvard University (Massachusetts)

Preceptors: Dr. Irene Cortese, Dr. Rose Peterson

4-124. Ashley Thommana

White Matter Lesion Segmentation Accuracy in Portable Ultra-Low Field MRI in Multiple Sclerosis

Pennsylvania State University (Pennsylvania)

Preceptors: Dr. Serhat Okar, Dr. Daniel Reich

4-125. Srijan Thota

Cortico-Cerebellar Dynamics in Learning Multiple Behavioral Tasks

New Jersey Institute of Technology (New Jersey)

Preceptors: Dr. Mark Wagner, Dr. Martha Garcia Garcia

4-126. Daniela Tortoza

Metabolic Reprogramming of Pituitary Adenomas

George Washington University (District of Columbia)

Preceptor: Dr. Prashant Chittiboina

4-127. Katherine Tucker

Mislocalizing Mitochondrial Protein Fis1 to the ER and the Innate Immune Receptor STING

Ohio State University (Ohio)

Preceptors: Dr. Richard Youle, Dr. Eunice Dominguez Martin

4-128. Erik Vaughan

Activity-induced plasticity of hippocampal input-prefrontal interneuron connectivity in wildtype and schizophrenia-relevant model mice.

University of Maryland, College Park (Maryland)

Preceptors: Dr. Joshua Gordon, Dr. David Kupferschmidt

4-129. Rachael Volkman

Representation of semantic memorability in the human brain during memory retrieval

University of Iowa (Iowa)

Preceptors: Dr. Kareem Zaghloul, Dr. Weizhen Xie

* Denotes that poster number was updated after the index was completed

4-130. Andrew Walsh

PTEN deletion causes increased proliferation within the olfactory epithelium

Stockton University (New Jersey)

Preceptors: Dr. John Ngai, Dr. Whitney Heavner

4-131. Anna Wcislak

Developing Anterior Pituitary Gland Organoids from Patient-Derived Induced Pluripotent Stem Cells

Northwestern University (Illinois)

Preceptor: Dr. Prashant Chittiboina

4-132. Stella Whittaker

Advancing a System for High Throughput Axonal Imaging of hiPSC-derived Neurons

Cornell University (New York)

Preceptors: Dr. Elizabeth Daley, Dr. Stephanie Sarbanes, Dr. Michael Ward, Dr. Antonina Roll-Mecak

4-133. Miciah Wilkerson

The impacts of SARS-CoV-2 on Gastrointestinal (GI) symptoms

University of Illinois at Urbana-Champaign (Illinois)

Preceptor: Dr. Brian Walitt

4-134. Danielle Wilson

Examining the Effect of NALCN on Dopamine-Dependent Behaviors

University of Maryland Baltimore County (Maryland)

Preceptor: Dr. Zayd Khaliq

4-135. Clarissa Xia

Characterization of cerebrospinal fluid biomarkers and neurocognitive function in the setting of depression in well-controlled HIV infection

University of Maryland, College Park (Maryland)

Preceptors: Dr. Avindra Nath, Dr. Darshan Pandya

4-136. Anthony Yanez

Overexpression of human wild-type alpha-synuclein subtly enhances excitability in murine dopamine neurons

Bowdoin College (Maine)

Preceptor: Dr. Zayd Khaliq

4-137. Rianna Zacharias

Characterizing heterozygous GluN2B knockout mice as a model for human GRIN disorders

University of Maryland, Baltimore County (Maryland)

Preceptor: Dr. Katherine Roche

CC – Clinical Center (Poster 138)

4-138. Lillian King*

Dietary Intake in Individuals with AUD: A Scoping Review of the Literature

University of Montana (Montana)

Preceptors: Dr. Jennifer Barb, Dr. Lorenzo Leggio

* Denotes that poster number was updated after the index was completed

NIAID - National Institute of Allergy and Infectious Diseases (Posters 139-140)

4-139. Nicolas Lynch*

Persistent Alterations in the Plasma Proteome following SARS-CoV-2 Infection

University of Maryland College Park (Maryland)

Preceptors: Dr. Anthony Suffredini, Dr. Julio Huapaya

4-140. Alisa Forsberg*

Host Cellular Responses in SARS-CoV-2 Breakthrough Infections

University of Maryland, College Park (Maryland)

Preceptors: Dr. Anthony Suffredini, Dr. Julio Huapaya Carrera

Thursday, May 2, 2024

Session 5: 9:30 a.m. – 10:45 a.m. (ET) (Posters 5-001 – 5-137)

NIAID - National Institute of Allergy and Infectious Diseases (A-L) (Posters 1-001 – 1-075)

5-001. Mahnoor Abid

Exploring the suppressive capacity of Intestinal Tbet+ CD4 T cells in Colitis and Oral Tolerance

Johns Hopkins University (Maryland)

Preceptors: Dr. Michail Lionakis, Dr. Eduard Ansaldo Gine

5-002. Ava Altenbern

Single-Virion Detection of Mammalian Orthoreovirus Transcription

University of Colorado, Boulder (Colorado)

Preceptor: Dr. Tijana Ivanovic

5-003. Kayla Amini

Using in vitro differentiation of iPSCs to thymic epithelial progenitor cells to investigate the roles of TP63 and FOXI3 in thymic development

University of Maryland, College Park (Maryland)

Preceptors: Dr. Luigi Notarangelo, Dr. Marita Bosticardo

5-004. Zixiao (Annie) An

Atypical B cell expansion and immune dysregulation are promoted by an inflammatory milieu in STAT1 GOF and STAT3DN patients."

University of Virginia (Virginia)

Preceptors: Dr. Luigi Notarangelo, Dr. Ottavia Delmonte

5-005. Eduardo Anaya

Derivation of Mesenchymal Stem Cells (MSC) from Induced Pluripotent Stem Cells (iPSC) and its Application in Genetic Disease Modeling

University of Texas at El Paso (Texas)

Preceptors: Dr. Luigi Notarangelo, Dr. Marita Bosticardo

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5-006. Shreyas Annaswamy

Absorbance-based assay shows calcium-dependent ATP hydrolysis in ghost erythrocyte membranes

University of Texas at Austin (Texas)

Preceptor: Dr. Sanjay Desai

5-007. Mickayla Bacorn

Microbiome-Host Responses and Predictors of Long-Term Health Outcomes in Children with COVID-19

University of Maryland, Baltimore County (Maryland)

Preceptor: Dr. Suchitra Hourigan

5-008. Meghna Bagchi

A Novel Splice Site Variant in ZAP70 Results in Impaired T cell Receptor Signaling and Late-onset Combined immunodeficiency

Colorado College (Colorado)

Preceptors: Dr. Jeffrey Cohen, Dr. Jessica Durkee-Shock

5-019. Olamide Banjoko

A Field Deployable Test for Buruli Ulcer using Recombinase Polymerase Amplification with CRISPR-Cas12a

Colorado College (Colorado)

Preceptors: Dr. Elodie Ghedin, Dr. Michael Frimpong

5-010. Melanie Barksdale

Antiviral Protection Provided by Group 1 Innate Lymphoid Cells

Colorado College (Colorado)

Preceptor: Dr. Heather Hickman

5-011. Marliece Barrios

Characterizing Anti-Lymphocyte Autoantibodies Cloned From an Idiopathic CD4 Lymphopenic Patient

University of Notre Dame (Indiana)

Preceptors: Dr. Irini Sereti, Dr. Ainhoa Perez-Diez

5-012. Alexi Baumgardner

Anifrolumab Normalizes the Type I Interferon Signature in a Cohort of Patients with Type I Interferonopathies

Virginia Wesleyan University (Virginia)

Preceptors: Dr. Raphaela Goldbach-Mansky, Dr. Sara Alehashemi

5-013. Tasnim Belej

Reprogramming HSCs

Howard University (District of Columbia)

Preceptors: Dr. Stefan Muljo, Dr. Sabrina Sultana

5-014. Sarah Berland

Exploring the role of commensal-vagal neuron signaling in the control of host immunity

University of Notre Dame (Indiana)

Preceptor: Dr. Hao Ji

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5-015. Benewaa Biritwum

Expression, Purification, and Binding Study of Fumarase from Myobacterium tuberculosis

Howard University (District of Columbia)

Preceptor: Dr. David Garboczi

5-016. Jacob Bjorgen

Immunophenotyping Leukocytic Infiltrate in 1918 Lineage Swine H1N1 Influenza Viruses

University of Minnesota Twin Cities (Minnesota)

Preceptor: Dr. Jeffery Taubenberger

5-017. Silvia Blanco-Rivera

Lymph Node Fine Needle Aspirations on Individuals Receiving a Monovalent Live Attenuated Dengue Vaccine

University of Puerto Rico- Rio Piedras Campus (Puerto Rico)

Preceptors: Dr. Leah Katzelnick, Dr. Camila Odio

5-018. Kelsey Bledsoe

The Interaction Between Environmental Factors and Host Genetics Contribute to Microbiome Variation in Rewilded Mice

University of Tennessee, Knoxville (Tennessee)

Preceptors: Dr. P'ng Loke, Dr. Oyebola Oyesola

5-019. Zoji Bomya

Development of a multiplex reporter virus particle assay to screen for maturation state-sensitive Zika virus antibodies

University of California, Berkeley (California)

Preceptors: Dr. Theodore Pierson, Dr. Katherine Burgomaster

5-020. Olivia Borden

IL-12 Production by cDC1 in Bone Marrow is Required for Host Protection in Toxoplasma gondii-infected Mice

Colgate University (New York)

Preceptor: Dr. Dragana Jankovic

5-021. Aidan Boving

Isolation of Mycobacterium smegmatis Ribosomes

University of Rhode Island (Rhode Island)

Preceptor: Dr. Clifton Barry

5-022. Paula Bravver

A longitudinal study of COVID-19 sequelae and immunity: effects of SARS-CoV-2 reinfection

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Michael Sneller

5-023. Grace Brewer

Transcriptional Activation of Bacillus anthracis Virulence Genes

University of Georgia (Georgia)

Preceptors: Dr. Stephen Leppla, Dr. Andrei Pomerantsev

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5-024. Said Briseno

Skin commensal, Roseomonas mucosa, protects human keratinocytes from cell death and boosts hBD-3 production in an in vitro model of Staphylococcus aureus infection

University of Tennessee Knoxville (Tennessee)

Preceptor: Dr. Portia Gough

5-025. Alexander Burbelo

Prevention of Hemolysis in Plasmodium Falciparum In Vitro Culture

Bates College (Maine)

Preceptors: Dr. Thomas Wellems, Dr. Juliana Sa

5-026. Matthew Burnett

CRISPR/Cas9-mediated approaches to characterize the role of single nucleotide polymorphisms associated with protection from HIV acquisition and HIV vaccine efficacy in CD4+ T-Lymphocytes

University of Florida (Florida)

Preceptors: Dr. Daniel Douek, Dr. Matthew Gagne

5-027. Sophie Byers

Increased Rate of Return With ACMG v3.1 Secondary Findings

Davidson College (North Carolina)

Preceptor: Ms. Morgan Similuk

5-028. Michael Calcagni

Smartphone Postural Sway Test as a Measure of Neurological Disability in Patients with Multiple Sclerosis

University of Notre Dame (Indiana)

Preceptors: Dr. Bibi Bielekova, Dr. Peter Kosa

5-029. Audrey Carson

Escalating Dose Immunization Regimen in Non-Human Primates To Improve Immunogen-Specific Responses

Case Western Reserve University (Ohio)

Preceptors: Dr. Theodore Pierson, Dr. Cheng Cheng

5-030. Fabiola Castello Casta

SIV infection and ARV usage Induce Minimal Change in the Gut Microbiome of Non-Human Primates

University of Puerto at Cayey (Puerto Rico)

Preceptor: Dr. Jason Brenchley

5-031. William Catalano

Single-cell assessment of immune responses against SARS-CoV-2 in wild-type versus Beta mRNA-1273 boosted nonhuman primates

Washington and Lee University (Virginia)

Preceptors: Dr. Daniel Douek, Dr. Chaim Schramm

5-032. Tammy Chen

Understanding the impact of guanylate binding protein-5 on alphavirus infection

Boston University (Massachusetts)

Preceptors: Dr. Julie Fox, Dr. Victoria Callahan

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5-033. Ankita Chopde

Characterization of two Influenza stem epitopes targeted by vaccine-elicited human B cells

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Sarah Andrews

5-034. Christina Chung

Host cell receptor CD36 interacts with Toxoplasma gondii surface antigens to promote infection competency

University of Missouri-Columbia (Missouri)

Preceptors: Dr. Michael Grigg, Dr. Aline Sardinha-Silva

5-035. Cody Conrad

Papillomavirus Evolution: Insights from Fish Viruses

University of Florida (Florida)

Preceptor: Dr. Alison McBride

5-036. Christian Crisologo

RATPAC: Rapid Assembly and Transfection to Produce Antigen-specific T Cells

Chaminade University of Hawaii (Hawaii)

Preceptors: Dr. Christopher Gonelli, Dr. Richard Koup

5-037. Ekaterina Damskey

Clinical presentation of DDX41 variants in a large research cohort

Eckerd College (Florida)

Preceptors: Ms. Sarah Bannon, Ms. Morgan Similuk

5-038. Rachel Davis

Impacts of Early-Life MeHg Exposure on Telomere Dynamics and Genomic Stability in Zebra Finches

College of William & Mary (Virginia)

Preceptors: Dr. Daniel Douek, Dr. Giulia Fabozzi

5-039. Emma Dickinson

The role of mosquito miRNAs in Wolbachia-mediated inhibition of Zika virus

University of Georgia (Georgia)

Preceptors: Dr. Elodie Ghedin, Dr. Denis Voronin

5-040. Nicholas DiRico

VIP-SPOT Validation in Ugandans Living with HIV

Northeastern University (Massachusetts)

Preceptor: Dr. Andrew Redd

5-041. Pearl Doan

CD4 forms a cis-interaction with integrin $\alpha 4\beta 1$ on T-cells

University of California Los Angeles (California)

Preceptors: Dr. James Arthos, Dr. Claudia Cicala

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5-042. Serena Doh

A tick attachment protocol display the rate of tick rejection by tick-infested guinea pigs

University of Maryland, College Park (Maryland)

Preceptor: Dr. Jesus Valenzuela

5-043. Eleanor Duncan

Intranasal immunization with live-attenuated bovine/human parainfluenza virus 3 expressing ancestral or Omicron BA.5 spike protein induced durable and broad SARS-CoV-2 serum antibodies in hamsters

University of Toronto (Canada)

Preceptors: Dr. Ursula Buchholz, Dr. Cyril Le Nouen

5-044. Nicholas Duncan

A Highly Sensitive Genomic DNA Assay for Improved Leishmaniasis Diagnosis

California State University, Los Angeles (California)

Preceptors: Dr. Sasisekhar Bennuru, Dr. Thomas Nutman

5-045. Adam Epstein-Shuman

SARS-CoV-2 Infection Does Not Induce Autoantibodies in an Urban Cohort

Georgetown (District of Columbia)

Preceptor: Dr. Oliver Laeyendecker

5-046. Aleah Eschman

Measuring Local Response to Ixodes scapularis Tick Bites with the Laser Speckle Contrast Imager

University of Maryland, College Park (Maryland)

Preceptor: Dr. Adriana Marques

5-047. Peter Filbrandt

Characterization of non-fluoroquinolone inhibitors of Mycobacterium tuberculosis DNA gyrase

Albion College (Michigan)

Preceptors: Dr. Clifton Barry III, Dr. Helena Boshoff

5-048. Jack Fiore

Characterizing age-specific spatial and temporal dynamics of influenza infection in a ferret model

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Elodie Ghedin, Dr. Kate Johnson

5-049. Kevin Barnes*

Exploring Chemokine-Phosphatidylserine Interactions with CryoEM and Crystallography

University of Maryland, College Park (Maryland)

Preceptor: Dr. David Garboczi

5-050. Madison Fox

Complement mediated clearance of SHIV with Fc optimized bNAbs

University of Colorado Colorado Springs (Colorado)

Preceptor: Dr. Richard Koup

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- 5-051. Kip Friend
Genetic, Clinical, and Immunologic Characterization of Patients with NEMO-deleted exon 5 Autoinflammatory Syndrome (NEMO-NDAS)
Saint Louis University (Missouri)
Preceptors: Dr. Raphaela Goldbach-Mansky, Dr. Adriana de Jesus
- 5-052. Sloane Fussell
Vaccination Boosts and Alters Adoptively Transferred CD8+ T cells in a Cell Quality-Specific Manner
University of North Carolina at Chapel Hill (North Carolina)
Preceptor: Dr. Robert Seder
- 5-053. Brendan Geesey
Searching for Core Regulators of Pyroptosis
Arizona State University (Arizona)
Preceptors: Dr. Iain Fraser, Dr. Clinton Bradfield
- 5-054. Courtney Green
AAV Vectored Immunoprophylaxis Encoding SIV-Specific Neutralizing Antibodies in Rhesus Macaques
University of Oxford (United Kingdom)
Preceptors: Dr. Mario Roederer, Dr. Matthew Sutton
- 5-055. Kelly Hanner
Uncovering P. falciparum genes required for mosquito infection using a conditional knockdown approach
State University of New York at Fredonia (New York)
Preceptor: Dr. Joel Vega-Rodriguez
- 5-056. Eliezer Heller
Specific JAK Inhibition Ameliorates AIRE Deficient Driven Autoimmunity
Yeshiva University (New York)
Preceptor: Dr. Michail Lionakis
- 5-057. Chloe Hicks
Xanthine Oxidase Regulation of Gasdermin D: Developing Biosensors to Assess Cleavage-Activated Signaling Events
Duke University (North Carolina)
Preceptors: Dr. Iain Fraser, Dr. Clinton Bradfield
- 5-058. Olympia Hotobah-During
The Importance of Diversity & Inclusion When Recruiting Potential Volunteers into the Clinical Trials Program
Hampton University (Virginia)
Preceptor: Dr. Lesia Dropulic
- 5-059. Annabelle Huang
Identification of H2HA-specific T Cell Epitopes Following Vaccination with A H2HA Ferritin Nanoparticle
University of Washington (Washington)
Preceptor: Dr. Richard Koup

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5-060. Patrick Huffcutt

Novel Tools for Elucidating Leishmaniasis Transmission Globally

University of Florida (Florida)

Preceptors: Dr. Shaden Kamhawi, Dr. Jesus Valenzuela

5-061. Joanne Hunt

Prevalence of Syphilis and HIV/Syphilis Coinfection in an Inner-City Emergency Department

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Steven Reynolds, Dr. Oliver Laeyendecker

5-062. Anna Jaeggi-Wong

Exploring the mechanisms of antibody-induced tuning of influenza A virion shape

Brandeis University (Massachusetts)

Preceptor: Dr. Tijana Ivanovic

5-063. Ben Jakubczak

Investigating the Origins of Recurrent Minor Mutations in SARS-CoV-2 Datasets

Hamilton College (New York)

Preceptors: Dr. Elodie Ghedin, Mr. Tung Nguyen

5-064. Heera James

Macrophage Training Reactivates Latent HIV-1 from HAART-Treated Patient PBMCs

Virginia Commonwealth University (VCU) (Virginia)

Preceptors: Dr. Iain Fraser, Dr. Sinu John

5-065. Josephine Jean

Dynamics of antibody specific to the placental malaria vaccine candidate VAR2CSA during pregnancies of women who received pre-conception PfSPZ Vaccine versus placebo control

Stony Brook University (New York)

Preceptors: Dr. Yai Doritchamou, Dr. Patrick Duffy

5-066. Andrew Jiang

Identifying Key Factors in the Formation of Tissue Resident Memory T Cells

University of Southern California (California)

Preceptors: Dr. Claudia Cicala, Dr. James Arthos

5-067. Hailey Johnson

The Role of Parasite microRNAs in Human Lymphatic Filariasis Pathology

University of Wisconsin Oshkosh (Wisconsin)

Preceptors: Dr. Elodie Ghedin, Dr. Denis Voronin

5-068. Noah Khorrami

Designed Hemagglutinin Postfusion Constructs to Elicit Antibodies and to Probe Existing Antibody Responses Both In Vivo and In Vitro

Virginia Polytechnic Institute and State University (Virginia)

Preceptors: Dr. Audray Harris, Dr. John Gallagher

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5-069. Megan Koch

Three-Dimensional Modeling of Human Nerve Architecture and Local Eosinophil Interactions in Eosinophilic Gastrointestinal Diseases

Colorado College (Colorado)

Preceptors: Dr. Greg Constantine, Dr. Paneez Khoury

5-070. Phoebe LaPoint

Investigating the Role of Endogenous Retroviruses in Pediatric Crohn's Disease

Elon University (North Carolina)

Preceptor: Dr. Suchitra Hourigan

5-071. Lillian LeBlanc

Macrophage-Derived Oxysterols Organize Type 2 Effector Cells Around Fungal Granulomas via GPR183

Gonzaga University (Washington)

Preceptors: Dr. Eric Dang, Dr. Ivan Zheng

5-072. Brendan Lemezis

Effect of codon-pair deoptimization of respiratory syncytial virus on the activation of monocyte-derived dendritic cells

Wake Forest University (North Carolina)

Preceptors: Dr. Ursula Buchholz, Dr. Cyril Le Nouën

5-073. Mariah Lofgren

mRNA Containing Minor Repeat Epitopes Elicits Protection Against Malaria

Sarah Lawrence College (New York)

Preceptors: Dr. Robert Seder, Dr. Azza Idris

5-074. Lucas Lopez

Understanding Contributions of Genetics, Environment, and Infection on Murine Lung Immune Composition

University of Puerto Rico in Aguadilla (Puerto Rico)

Preceptors: Dr. P'ng Loke, Dr. Oyebola Oyesola

5-075. Daniel Bloor*

Using a DNA Library to Determine the Human Pneumocyte Receptor of Pneumocystis's MSG

Liberty University (Virginia)

Preceptor: Dr. David Garboczi

NICHD - Eunice Kennedy Shriver National Institute of Child Health and Human Development (A-K) (Posters 5-076 – 5-111)

5-076. Temidayo Adegbenro

DNA polymerase eta is a new substrate of the NEDD8 ubiquitin-like conjugating pathway

University of California Los Angeles (California)

Preceptors: Dr. Natalia Moreno, Dr. Roger Woodgate

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5-077. Praise Adekola

Associations of Menarche and the Menstrual Cycle with Body Dissatisfaction and Self-Esteem

Tufts University (Massachusetts)

Preceptor: Dr. Jack Yanovski

5-078. Miranda Alaniz

Noncanonical regulation of protein activity by base pairing small RNAs

Trinity University (Texas)

Preceptors: Dr. Narumon Thongdee, Dr. Gisela Storz

5-079. Carolina Alvarez

Neurofilament Light Chain in Murine Plasma Shows Promise as a Biomarker for Niemann-Pick Disease Type C

Mount Holyoke College (Massachusetts)

Preceptors: Dr. Forbes Porter, Dr. Cristin Davidson

5-080. Samra Beyene

A Spatial Organization Within the Caudal Ganglionic Eminence Relating to Mature Interneuron Subtypes

Brown University (Rhode Island)

Preceptor: Dr. Timothy Petros

5-081. Vanya Bhat

Characterizing Neurodegeneration-Linked Protein Stathmin-2 In Response to Chemical Injury

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Claire Le Pichon, Dr. Alexandra Stavsky

5-082. Bess Bloomer

A pilot RCT using smartphones to alter food attention bias in adolescent girls with high BMI

University of Maryland, College Park (Maryland)

Preceptor: Dr. Jack Yanovski

5-083. Julie Bocetti

Investigating the Effect of caf20 on the Assembly of 48S Preinitiation Complexes in a Reconstituted Translation System

Wellesley College (Massachusetts)

Preceptor: Dr. Jon Lorsch

5-084. Sabrina Bouchard

Functional Characterization Of The Legionella Effector DenR Which Manipulates The Human Proto-oncoprotein NRas

University of Massachusetts Boston (Massachusetts)

Preceptor: Dr. Matthias Machner

5-085. Amanda Brewer

Mechanisms governing FtsH protease recognition and post-translational regulation of the magnesium importer MgtA

Clemson University (South Carolina)

Preceptors: Dr. Gisela Storz, Dr. Rilee Zeinert

* Denotes that poster number was updated after the index was completed

5-086. Aleah Brown

Lower Subjective Social Status is Associated with Reduced Satiety in Children

Spelman College (Georgia)

Preceptor: Dr. Bobby Cheon

5-087. Daniel Cai

Using Cryo-ET to visualize Nuclear pore complex architecture in absence of its cornerstone components

Boston College (Massachusetts)

Preceptors: Dr. Mary Dasso, Dr. Alexei Arnaoutov

5-088. Kailah Charles

A Case Report of 3 Patients with Extensive Lung Metastatic Paraganglioma: Diagnostic Workup, Treatment Challenges and Outcomes

Frostburg State University (Maryland)

Preceptor: Dr. Karel Pacak

5-089. Jocelyn Chen

Impact of Hepatic Mc3r Deficiency in Mouse Obesity

University of Maryland, College Park (Maryland)

Preceptor: Dr. Jack Yanovski

5-090. Allison Choe

Poorer Postpartum Mental Health Is Associated With More Frequent Feeding to Soothe in Response to Infant Distress

University of Michigan (Michigan)

Preceptors: Dr. Tonja Nansel, Dr. Leah Lipsky

5-091. Isabella Cisneros

Elucidating the epigenetic regulation of zebrafish caudal fin regeneration using a novel "EpiTag" transgenic line and a multi-omics approach

University of Chicago (Illinois)

Preceptors: Dr. Brant Weinstein, Dr. Jian Ming Khor

5-092. Fatimatou Diouf

Spindle Assembly Checkpoint proteins

Smith College (Massachusetts)

Preceptor: Dr. Mary Dasso

5-093. Juwaan Douglas-Jenkins

The small protein YceO is a putative regulator of the inner membrane protease RseP

Salve Regina University (Rhode Island)

Preceptors: Dr. Gisela Storz, Dr. Rilee Zeinert

5-094. Ewelina Dwojak

Comparing cerebrospinal fluid protein biomarkers in two lysosomal conditions: CLN3 and NPC1

Johns Hopkins University (Maryland)

Preceptor: Dr. An Dang Do

* Denotes that poster number was updated after the index was completed

5-095. Noah Englander

Take Me to the Membrane : Biochemical Characterization of HIV-1 TAT S-Acylation

University of Missouri in Columbia (Missouri)

Preceptors: Dr. Anirban Banerjee, Dr. Richard Murphy

5-096. Emily Feigen

Amyloid-Like Bodies of Squid CNS are a Condensate of Heterogeneous Proteins

University of Chicago (Illinois)

Preceptor: Dr. Joshua Zimmerberg

5-097. Shelby Ferrier

Elucidating Relationship Between the Gene Regulatory Protein CTCF and Genomic Context Through Thousands of Reporters Integrated in Parallel (TRIP)

Loyola Marymount University (California)

Preceptors: Dr. Pedro Rocha, Dr. Ryan Dale

5-098. Ryan Fishman

Discovering sRNAs important for B. burgdorferi infectivity

University of Florida (Florida)

Preceptor: Dr. Philip Adams

5-099. Eric Gallagher

Investigating Speckle Plethysmography as a Continuous, Non-Invasive Monitoring Tool for Sickle Cell Disease

University of Notre Dame (Indiana)

Preceptor: Dr. Bruce Tromberg

5-100. Tony George

A Wireless Biosensor to Monitor Physiological Signals

University of Tennessee, Knoxville (Tennessee)

Preceptors: Dr. Amir Gandjbakhche, Dr. Thien Nguyen

5-101. Jada Gonzales

Mapping Genomic Binding Sites of Variant PRDM9 Alleles to Explore a Potential Role in Infertility

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Todd Macfarlan, Dr. Rachel Cosby

5-102. Danielle Gross

Time to Sperm Suppression With Daily Transdermal Use of Nestorone and Testosterone Combination Gel for Male Contraception Is Faster Than Expected

Tulane University (Louisiana)

Preceptor: Dr. Diana Blithe

5-103. Clio Hockens

Meiotic segregation in holocentric moth species occurs through a unique center-kinetic mechanism

University of California Los Angeles (California)

Preceptor: Dr. Leah Rosin

* Denotes that poster number was updated after the index was completed

5-104. Melanie Hollis

Transglutaminase-Expressing Adipose Tissue Macrophages Positively Regulate Adipose Tissue Profibrotic Profile in Diet-Induced Obese Mice

Prairie View A&M University (Texas)

Preceptor: Dr. Jack Yanovski

5-105. Jenny Huang

Modeling Drosophila Glutamate Receptor/Neto Complexes using AlphaFold

Cornell University (New York)

Preceptor: Dr. Mihaela Serpe

5-106. Taeen Jidaan

A Genome Editing Toolkit for Schizosaccharomyces pombe

Lawrence University (Maryland)

Preceptor: Dr. Henry Levin

5-107. Jeremiah Jones

Association Between Adolescent Males Self-Perception of Their Height and Global Self-Esteem Moderated by Social Media

University of Illinois Urbana-Champaign (Illinois)

Preceptors: Dr. Jack Yanovski

5-108. Griffin Katz

Targeting La Protein- A Regulator of Osteoclast Formation and Function- in Skeletal Disease

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Jarred Whitlock, Dr. Leonid Chernomordik

5-109. Yehyun (Abby) Kim

Investigating the Role of notch1 as a Novel Arterial Regulator in Early Zebrafish Vascular Development

Reed College (Oregon)

Preceptors: Dr. Brant Weinstein, Dr. Miranda Marvel

5-110. Young Kim

Comparison of optical cerebral hemodynamic markers to polysomnography in pediatric obstructive sleep apnea

University of Pittsburgh (Pennsylvania)

Preceptor: Dr. Bruce Tromberg

5-111. Georgia Krikorian

Modeling the role of IDH1 as a novel genetic cause for lymphatic malformations

Smith College (Massachusetts)

Preceptor: Dr. Sarah Sheppard

* Denotes that poster number was updated after the index was completed

NIEHS - National Institute of Environmental Health Sciences (Posters 5-112 – 5-137)

5-112. Jacob Airas

Standard Operating Protocol for Lamellae Creation in Saccharomyces Cerevisiae

University of Richmond (Virginia)

Preceptors: Dr. Stavros Garantziotis, Dr. Robin Stanley

5-113. Taylor Cosey

Characterization of Vicilin-Buried Peptides in Cross-Reactivity of Legume, Nightshade, and Tree Nut Species Using Human Monoclonal IgE

North Carolina State University (North Carolina)

Preceptor: Dr. Geoffrey Mueller

5-114. Matthew Dennen

Hypomorphic change in replication protein A (RPA) large subunit alters the mutation outcomes at DNA lesions caused by human APOBEC cytidine deaminase in yeast

College of William and Mary (Virginia)

Preceptor: Dr. Dmitry Gordenin

5-115. John Dong

The Role of Lag3 in Microglia Function during Alzheimer's Disease

University of North Carolina at Chapel Hill (New York)

Preceptor: Dr. Elizabeth Gjoneska

5-116. Lillian Elkin

AP-1 Transcription Factor Regulates the APOE-Activating Noncoding RNA (AANCR)

Appalachian State University (North Carolina)

Preceptors: Dr. Jason Watts, Dr. Ma Wan

5-117. Jared Glorius

Advancements in Neurobehavioral Analysis: Integrating Virtual Reality with Neuroscience

North Carolina State University (North Carolina)

Preceptor: Dr. Jesse Cushman

5-118. Abhishek Goel

Interaction of the Female HPG Axis and Metabolic Signaling in Health and Disease

University of California, San Diego (California)

Preceptors: Dr. Janet Hall, Dr. Skand Shekhar

5-119. Ariayana Harrell

Pubertal Timing and Incident Uterine Cancer in Sister Study Cohort

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Mandy Goldberg, Dr. Dale Sandler

* Denotes that poster number was updated after the index was completed

- 5-120. Hope Hawthorne
Intrinsically disordered regions regulate RNA binding in germline stem cells
University of Pennsylvania (Pennsylvania)
Preceptor: Dr. Traci Hall
- 5-121. Israa Hissein
Kinetic Investigation of the Human tRNA Splicing Endonuclease Complex
University of Pittsburgh (Pennsylvania)
Preceptor: Dr. Robin Stanley
- 5-122. Abigail Kitakule
Understanding Female Urethra Closure: Anatomical and Molecular Insights in Mice
Belmont University (Tennessee)
Preceptors: Dr. Humphrey Yao, Dr. Ciro Amato
- 5-123. Peter Lais
Serum Response Factor Cooperates with Progesterone Receptor to Mediate Oviductal Embryo Transport
Georgia Institute of Technology (Georgia)
Preceptors: Dr. Francesco DeMayo, Dr. Ryan Marquardt
- 5-124. David Meyer
Transcriptomic Profiling of Progestins in T47D Breast Cancer Cells Reveals Potential Molecular Underpinnings of Increased Breast Cancer Risk
Furman University (South Carolina)
Preceptor: Dr. Raja Jothi
- 5-125. Skylar Montague Redecke
Identification of cis-acting elements and trans-acting factors that regulate expression of the Progesterone Receptor Gene PGR in the uterus
Duke University (North Carolina)
Preceptor: Dr. Francesco DeMayo
- 5-126. Austin Nguyen
Heavy metals attenuate tonicity-responsive activation of aldose reductase transcription
North Carolina State University (North Carolina)
Preceptor: Dr. Jason Watts
- 5-127. Erixberto Olivencia Álvarez
Analyzing Exercise as a Trigger for Autophagy within the Placenta
University of Puerto Rico Mayagüez Campus (Puerto Rico)
Preceptors: Dr. Carlos Guardia, Ms. Elizabeth Padilla-Banks
- 5-128. Antonio Patterson
Lung Resident Memory CD4+ T Cells are Dependent on Type 1 Dendritic Cells
University of Central Florida (Florida)
Preceptor: Dr. Don Cook

* Denotes that poster number was updated after the index was completed

5-129. Oindrila Paul

Transcriptomic Responses in a Co-Culture Lung Cell System Indicate Unique Cell Type Transcriptional Responses to Acrolein Exposure

North Carolina State University (North Carolina)

Preceptor: Dr. Jason Watts

5-130. Maira Perez

Placenta-specific autophagy drives trophoblast differentiation and function

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Carlos Guardia

5-131. Avril Powell

Analysis of Glutathione Reductase Metabolic Signature and its Connection to Redox Stress Mutational Motifs

University of Alabama (Alabama)

Preceptors: Dr. Natasha Degtyareva, Dr. Paul Doetsch

5-132. Elvis Quiroz

Induced Gene Ablation in the Uterus to Investigate Implantation and Post-Implantation Uterine Function

University of Illinois at Chicago (Illinois)

Preceptor: Dr. Francesco DeMayo

5-133. Jariatu Stallone

To Have or to Hold? Refined Methods in Mouse Handling

University of Virginia (Virginia)

Preceptor: Dr. Jesse Cushman

5-134. Alanna Stewart

The Impact of Genetic Variability on DNA Methylation Changes from Dietary Exposure

Spelman College (Georgia)

Preceptors: Dr. Alison Harrill, Dr. Elizabeth Martin

5-135. DaNashia Thomas

Ideal Cardiovascular Health and Housing Arrangement

Clark Atlanta University (Georgia)

Preceptor: Dr. Chandra Jackson

5-136. Tia Vierling

Synaptic properties of Lag3 knockout in an adult 5XFAD mouse model of Alzheimer's disease

Colorado College (Colorado)

Preceptors: Dr. Serena Dudek, Dr. Daniel Radzicki

5-137. Emma Wiley

NLRC4 Activation by the Microbiome Promotes Fibrosis via the Keratinization Pathway

College of William and Mary (Virginia)

Preceptors: Dr. Stavros Garantziotis, Dr. Yosuke Sakamachi

* Denotes that poster number was updated after the index was completed

Thursday, May 2, 2024

Session 6: 11:00 a.m. – 12:15 p.m. (ET) (Posters 6-001 – 6-139)

**NIAID - National Institute of Allergy and Infectious Diseases (M-Z and Rocky Mountain Laboratories)
(Posters 6-001 – 6-073)**

6-001. Hanna Anhalt

Marburg virus glycoprotein-mediated memory natural killer cell responses in Balb/c mice

University of Wisconsin-Madison (Wisconsin)

Preceptors: Dr. Kyle O'Donnell, Dr. Andrea Marzi

6-002. Leah Bernstein

Determining the Minimum Flavivirus Dose Necessary to Infect a Tick

University of Wyoming (Wyoming)

Preceptor: Dr. Philip Philip

6-003. Annabel Coyle

Interferon Alpha Inhibition of Bunyavirus Infection in Neurons and Muscle Cells

Virginia Tech (Virginia)

Preceptor: Dr. Karin Peterson

6-004. Kamryn Cregger

*Characterization of the two oligopeptide binding proteins (OppAs) in the relapsing fever model of *Borrelia hermsii**

University of Tennessee, Knoxville (Tennessee)

Preceptor: Dr. Ashley Groshong

6-005. Olivia Durant

Characterization of Disease in IFNAR^{-/-} Mice Following Infection with Recombinant VSV-Filovirus Constructs

Northeastern University (Massachusetts)

Preceptors: Dr. Paige Fletcher, Dr. Andrea Marzi

6-006. Hadil El Soufi

Dissecting the underlying mechanisms that cause Fatal Familial Insomnia in PRNP D178N carriers.

State University of New York, Brockport (New York)

Preceptors: Dr. Cathryn Haigh, Dr. Simote Foliaki

6-007. Taylor Fletcher

Modeling Neuroborreliosis: Lyme Disease in the Brain

Spelman College (Georgia)

Preceptors: Dr. James Carroll, Dr. Cathryn Haigh

6-008. Ben Greene

Needle in a Haystack: Assessing the Efficacy of Target Enrichment in Nanopore Sequencing of Viruses

University of Minnesota - Twin Cities (Minnesota)

Preceptors: Dr. Kwe Claude Yinda, Dr. Vincent Munster

* Denotes that poster number was updated after the index was completed

6-009. Zeeyong Kwong

Variability in Subclinical Gastrointestinal Inflammation Among Uninfected Murine Models

Emory University (Georgia)

Preceptor: Dr. Olivia Steele-Mortimer

6-010. Rohaan Mahmud

Uncovering the Mechanistic Role Behind Substrate Selectivity of Anthrax Toxin Lethal Factor Protease

University of Maryland, College Park (Maryland)

Preceptors: Dr. Stephen Leppa, Dr. Apostolos Gittis

6-011. Rory Malek

Comparing B-Cell Responses to a SARS-CoV-2 Boost by Vaccine Platform and Immunogen

University of Texas at Austin (Texas)

Preceptor: Dr. Sarah Andrews

6-012. Kimberly Manalang

Immune pressure exerted on SIV V4 Env V4 region by non-neutralizing anti-V2 mAbs

Lafayette College (Pennsylvania)

Preceptors: Dr. Hannah King, Dr. Mario Roederer

6-013. Maegan Manning

Dynamics of Intact HIV Reservoir During ART Following Analytical Treatment Interruption

Hobart and William Smith Colleges (New York)

Preceptor: Dr. Tae-Wook Chun

6-014. Taylor McGee

An ultrapotent ZIKV neutralizing IgM mitigates IgG-mediated Antibody-Dependent Enhancement of Infection (ADE) at sub-neutralizing concentrations.

Hampden Sydney College (Virginia)

Preceptors: Dr. Mattia Bonsignori, Dr. Matthias Lingemann

6-015. Quenelle McKim

SARS-CoV-2 Receptor Binding Domain Monoclonal Antibody A18-448.1 Potently Neutralizes Sarbecoviruses and Blocks Viral Replication in Syrian Hamsters

Dickinson College (Pennsylvania)

Preceptor: Dr. Nicole Doria-Rose

6-016. Amira-Nuriya McKinney

*Unknown hypothetical protein, BB0208, is essential for tick transmission of *Borrelia burgdorferi**

Middle Tennessee State University (Tennessee)

Preceptor: Dr. Ashley Groshong

6-017. Mattie Melnyk

Distinct B Cell Responses to SARS-CoV-2 and HIV in People Living with HIV

University of California Los Angeles (California)

Preceptors: Dr. Lela Kardava, Dr. Susan Moir

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6-018. Emily Miltenberger

Eosinophils in the Pathophysiology of Subarachnoid Neurocysticercosis

University of Southern California (California)

Preceptors: Dr. Thomas Nutman, Dr. Janitzio Guzman

6-019. Molly Miltko

Amino Acids Alter Human Monocyte-Derived Macrophage Responses to TLR stimulus and Francisella tularensis Capsule

University of Notre Dame (Indiana)

Preceptor: Dr. Catherine Bosio

6-020. Marzia Mustamand

Mycobacterium abscessus Effect on Infected Macrophages Metabolism

Montclair State University (New Jersey)

Preceptors: Dr. Steven Holland, Dr. Eva Le Run

6-021. Rojin Najmabadi

The Biomass Ratio: CHO Biomass Density across Cell-Lines and Culture Conditions

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Sean Mack, Dr. Daniel Gowetski

6-022. Gustavo Nativio

Malaria Transmission-Blocking Vaccine with Matrix M adjuvant - a Phase I trial in Mali

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Patrick Duffy, Dr. Jennifer Kwan

6-023. Daniela Negrete

Modification of the C protein of human parainfluenza virus 3 as a mechanism of attenuation for vaccine development

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Ursula Buchholz, Dr. Shirin Munir

6-024. London Nemmers

War on Zika: Wolbalchia's Protein Defense Arsenal

University of Richmond (Virginia)

Preceptors: Dr. Elodie Ghedin, Dr. Denis Voronin

6-025. Katelyn Nguyen

Fusion Peptide-Directed HIV-1-Neutralizing Antibodies from Vaccinated Guinea Pigs

University of California - San Diego (California)

Preceptor: Dr. Theodore Pierson

6-026. Katie Nunez

Vaccinia Virus as a Moderator of Necroptosis

Towson University (Maryland)

Preceptor: Dr. Heather Hickman

* Denotes that poster number was updated after the index was completed

6-027. Simone Olubo

De novo Functional Annotation and Haplotype Analysis of IG and TR loci of Mauritian Cynomolgus Macaques

Bowie State University (Maryland)

Preceptors: Dr. Daniel Douek, Dr. Chaim Schramm

6-028. Johan A Ortiz Morales

Optimizing Lung Organoid Growth and Differentiation

Universidad Ana G. Mendez (Puerto Rico)

Preceptors: Dr. Emmie De Wit, Dr. Meaghan Flagg

6-029. Deirdre Otoo

Initial and Stability Testing of Pfs230D1-EPA Conjugate Vaccine Candidate

Boston University (Massachusetts)

Preceptors: Ms. Daming Zhu, Dr. Patrick Duffy

6-030. Darwing Padilla Rolon

Pupillary Light Reflex and its Implications in Multiple Sclerosis

University of Puerto Rico at Cayey (Puerto Rico)

Preceptor: Dr. Bibiana Bielekova

6-031. Alden Paine

Echovirus-11 Virus-Like Particle Vaccine Elicits Neutralizing Antibodies in Mice

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Tracy Ruckwardt, Dr. Masaru Kanekiyo

6-032. Rachel Palmer

Dual Approaches for Developing a Cellular Magnesium Flux Probe

Georgetown University (District of Columbia)

Preceptors: Dr. Michael Lenardo, Ms. Ping Jiang

6-033. Cokie Parker

Computational Models for Predicting Vaccine Response

Johns Hopkins University (Maryland)

Preceptors: Dr. Daniel Douek, Dr. Chaim Schramm

6-034. Richard Parks

Design, Purification, and Binding of Bivalent Molecules Against SARS-CoV-2

Truman State University (Missouri)

Preceptor: Dr. David Margulies

6-035. Christine Perritano

Taurine and α -ketoglutarate both establish and enhance innate immune training in human macrophages

George Washington University (District of Columbia)

Preceptors: Dr. Sinu John, Dr. Iain Fraser

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6-036. Jillian Perry

A PI3K-FasL-Fas signaling loop drives CD8 T cell dysfunction in Activated PI3K Delta Syndrome

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Pamela Schwartzberg, Dr. Dominic Golec

6-037. Rachel Pietrow

Novel biomarkers for monitoring efficacy and success of mass drug administration programs for elimination of lymphatic filariasis

Smith College (Massachusetts)

Preceptors: Dr. Sasisekhar Bennuru, Dr. Thomas Nutman

6-038. Yoav Pinto

Investigating Vaccination Status Using Phage-Immunoprecipitation Sequencing: A High Throughput Serological Screening Method

University of Washington (Washington)

Preceptors: Dr. Noemia Santana Lima, Dr. Daniel Douek

6-039. Lauren Praiss

SARS-CoV-2 Rate of Vaccination and Incidence of Infection in People Living with HIV

Barnard College of Columbia University (New York)

Preceptor: Dr. Susan Moir

6-040. Aaron Pugh

Using reverse transcriptase qPCR to assess the maturity of Leishmania infection in sand flies

Salem College (North Carolina)

Preceptors: Dr. Eva Iniguez, Dr. Jesus Valenzuela

6-041. Rodaba Rahim

Infrared Thermography Imaging with Rare Eosinophilic Disorders

Kenyon College (Ohio)

Preceptors: Dr. Amy Klion, Michelle Makiya

6-042. Bianca Ralph

Longitudinal Characterization of Viral RNA Expression in CD4+ T Cells Across Fiebig-equivalent Stages of SHIV Infection in Rhesus Macaques

University of Maryland, College Park (Maryland)

Preceptors: Dr. Joseph Casazza, Dr. Richard Koup

6-043. Arthi Ramkumar

*Employing Fluorescence-Assisted Two-Step Allelic Exchange to Investigate MexVW in *P. aeruginosa**

University of Maryland College Park (Maryland)

Preceptor: Dr. John Dekker

6-044. Lauryn Ridley

Why PAI-1? Insights into cerebral malaria pathogenesis through the plasma proteome.

St. Mary's College of Maryland (Maryland)

Preceptor: Dr. Hans Ackerman

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6-045. Megan Rodgers

Induction of Human-like Antibody Response to a Universal Influenza Vaccine Candidate in Macaques

Johns Hopkins University (Maryland)

Preceptor: Dr. Masaru Kanekiyo

6-046. Peyton Roeder

Pre-clinical Characterization of Replicating Intranasal Adenovirus type 4-vectored SARS-CoV-2 Vaccines

University of Colorado Boulder (Colorado)

Preceptor: Dr. Mark Connors

6-047. Hector Romero Soto

Delivery Mode Impacts Gut Bacteriophage Colonization During Infancy

University of Puerto Rico at Cayey (Puerto Rico)

Preceptor: Dr. Suchitra Hourigan

6-048. Sarah Rubin

Self-Assembling Nanoparticles Displaying Stabilized RBD Proteins from the BA.5 Strain Elicited Potent and Broad Neutralization Responses Against SARS-CoV-2

Georgetown University (District of Columbia)

Preceptors: Dr. Baoshan Zhang, Dr. Tongqing Zhou

6-049. Celiann Sanchez Rivera

Geographical Differences In Microbial Composition of Buruli Ulcers in Ghana

University of Puerto Rico, Humacao Campus (Puerto Rico)

Preceptors: Dr. Elodie Ghedin, Dr. Michael Frimpong

6-051. Christopher Semancik

NTM Infection Risk and Environmental Factors: A Population-Based Epidemiologic Study of New York City, NY

Tufts University (Massachusetts)

Preceptor: Dr. Rebecca Prevots

6-052. Amay Shah

HPV16-specific T cells may play a role in establishing the early HIV reservoir

University of California, Los Angeles (California)

Preceptors: Dr. Andrea Lisco, Dr. Lara Ye

6-053. Sam Shepard

Multimodal Immunotherapy for Solid Cancers: The ACT-VAX-Innate Platform

University of North Carolina at Asheville (North Carolina)

Preceptors: Dr. Robert Seder, Mr. Dalton Hermans

6-054. Jonathan Shin

Tracking Replicating HPV Genomes in Persistently Infected Keratinocytes

St Mary's College of Maryland (Maryland)

Preceptor: Dr. Alison McBride

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- 6-055. Victoria Skovorodnev
Generating a novel CRISPR-KO protocol to probe how pathogenic fungi drive alternatively activated macrophage (AAM) polarization
George Washington University (District of Columbia)
Preceptor: Dr. Eric Dang
- 6-056. Vivek Sreejithkumar
3D Extension of Spatial Patterning Analysis of Cellular Ensembles (SPACE) to Extract Parameters for Dynamic Tumor Modeling
Florida Atlantic University (Florida)
Preceptors: Dr. Edward Schrom, Dr. Ronald Germain
- 6-057. Sruthi Srinivasan
Assessing the role of common genetic variation on phenotypic variability in inborn errors of immunity
University of Maryland College Park (Maryland)
Preceptor: Dr. Jia Yan
- 6-058. Isabel Steinberg
Elements Contributing to Efficient Induction of an HIV-1 Specific Neutralizing Antibody Response
Bucknell University (Pennsylvania)
Preceptor: Dr. Mark Connors
- 6-059. Yaye Sy
Volunteer recruitment for a malaria transmission blocking study
Bowie State University (Maryland)
Preceptors: Dr. Patrick Duffy, Dr. David Cook
- 6-060. Kristina Tang
Sandfly Saliva Protein LJL04 Binds to Human Extracellular Matrix Proteins and to Leishmania Parasites
Hunter College (New York)
Preceptor: Dr. Fabiano Oliveira
- 6-061. Alexandra Vela
Basophil Activation Test Assay as a Measure of Immune Response to Tick Bites in Humans
Georgia Institute of Technology (Georgia)
Preceptors: Dr. Adriana Marques, Ms. Caroline Percopo
- 6-062. Charlie Voirin
Optimization and Evaluation of a qPCR Assay to Assess Patient Viremia for a Live-Attenuated Vaccine Trial
Kenyon College (Ohio)
Preceptors: Dr. Leah Katzelnick, Dr. Camila Odio
- 6-063. Danyi Wang
Diverse approaches to designing and synthesizing soluble, viral molecular probes for vaccine development and antibody identification
Northwestern University (Illinois)
Preceptors: Dr. I-Ting Teng, Dr. Tongqing Zhou
- * Denotes that poster number was updated after the index was completed

- 6-064. Jonathan Webber
Evolution of SARS-CoV-2-specific T-Cell Responses from Acute COVID-19 Infection through Convalescence
Pennsylvania State University (Pennsylvania)
Preceptors: Dr. Mark Connors, Dr. Daniel Rogan
- 6-065. Samuel Wertz
Effect of VCAM-1 on CD4 interaction with integrin $\alpha 4\beta 1$ on the surface of primary T cells
Lafayette College (Pennsylvania)
Preceptors: Dr. James Arthos, Dr. Claudia Cicala
- 6-066. Kamron Woods
Isolation of Cross-reactive Norovirus Antibodies
University of Pittsburgh (Pennsylvania)
Preceptor: Dr. Mario Roederer
- 6-067. Lingyuan Wu
Anti-Foldon Measurements of RSV-Immunized Animal and Human Sera Demonstrates Sole Animal Response
Emory University (Georgia)
Preceptors: Dr. Theodore Pierson, Dr. Li Ou
- 6-068. Monica Wu
Protective Role of the Dendritic Cell Receptor Clec9A in Lupus Nephritis
University of Washington (Washington)
Preceptor: Dr. Silvia Bolland
- 6-069. Knaunong Xiong
Characterization of CD25+ Lymphocytes in Lymphocytic Variant Hypereosinophilic Syndrome
Augsburg University (Minnesota)
Preceptors: Dr. Amy Klion, Dr. Charles Anderson
- 6-070. Sheila Yeboah
CTCF Haploinsufficiency Affects Global Gene Expression in the Ageing Brain
University of Maryland, Baltimore County (Maryland)
Preceptors: Dr. Emma Price, Dr. Victor Lobanenkov
- 6-071. Emily Youngblood
Tgfbr1 LOF Mutation Augments IL-33 Mediated Proinflammatory Cytokine Release in Mast Cells
University of California, Santa Barbara (California)
Preceptors: Dr. Pamela Guerrerio, Dr. Tamara Haque
- 6-072. Maria Zhu
Human GPR15 gene mutations lead to inflammatory bowel disorder
Grinnell College (Iowa)
Preceptor: Dr. Michael Lenardo

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6-073. Zohar Ziff

Boosting with mucosal adenovirus-vectored vaccine blocks SARS-CoV-2 infection in rhesus macaques by limiting virus replication in upper and lower airways

University of Virginia (Virginia)

Preceptors: Dr. Daniel Douek, Dr. Matthew Gagne

NICHD - Eunice Kennedy Shriver National Institute of Child Health and Human Development (L-Z) (Posters 6-074 – 6-108)

6-074. Randy Le

Maternal Obesity and Ancestry similarity in Influencing Birth Outcomes

University of Massachusetts Amherst (Massachusetts)

Preceptor: Dr. Fasil Tekola Ayele

6-075. Peyton Lee

Pathological Effects of TDP-43 Deletion in Motor Neurons

Colgate University (New York)

Preceptors: Dr. Claire Le Pichon, Ms. Josette Wlaschin

6-076. Sean Lee

Exploring a modified DNA damage response in early zebrafish development

University of California - Santa Cruz (California)

Preceptor: Dr. Jeffrey Farrell

6-077. Erica Lesko

Exploring Behavior of Prkar2a Deficient Mice in Aversive Paradigms

California State University Monterey Bay (California)

Preceptors: Dr. Edra London, Dr. Chris McBain

6-078. Eliza Lloyd

Examining the roles of individual stress response pathways following closed-head mild TBI

Colgate University (New York)

Preceptors: Dr. Claire Le Pichon, Mrs. Mor Alkaslasi

6-079. Aisling Macaraeg

Identification of Novel Genes Critical to the Survival of Legionella pneumophila in Human Macrophages

University of Rhode Island (Rhode Island)

Preceptors: Dr. Matthias Machner, Dr. Yuen Yan Chang

6-080. Sharaf Maisha

Characterizing the DNA binding specificity of new KRAB-ZFPs

University at Buffalo (New York)

Preceptors: Dr. Todd Macfarlan, Dr. Melania Bruno

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6-081. Celia Martinez Aceves

Characterizing the development of specialized gas-exchange "Aerocytes" in the optically clear zebrafish gill endothelium

Yale University (Connecticut)

Preceptors: Dr. Brant Weinstein, Dr. Jong Park

6-082. Matthew Menold

Differential Transcript Usage in R

Oregon State University (Oregon)

Preceptor: Dr. Ryan Dale

6-083. Avani Modak

Hybrid cell fate and formation in zebrafish axial mesoderm development

University of Washington, Seattle (Washington)

Preceptor: Dr. Jeffrey Farrell

6-084. Abucar Mohamed

Behavioral tests and brain imaging studies identify cohesinopathies in Wapl^{+/-} mice.

College of Idaho (Idaho)

Preceptor: Dr. Karl Pfeifer

6-085. John Mutersbaugh

Evaluating Deep Learning Methods for the Classification of Children with and without ASD, using IMU Hand Tracking Data

George Mason University (Virginia)

Preceptors: Dr. Amir Gandjbakhche, Dr. Anjana Bhat

6-086. Avani Mylvara

Optimization of Systemic AAV9 Gene Therapy in Niemann-Pick Disease Type C1 Mice

University of California San Diego (California)

Preceptors: Dr. Cristin Davidson, Dr. Forbes Porter

6-087. Patrick O'Reilly

Structural and Functional Characterization of CorA Magnesium Channels from Pathogenic Bacteria

College of Charleston (South Carolina)

Preceptor: Dr. Doreen Matthies

6-088. Shalika Padhi

The Protective Role of Voltage-Gated Potassium Channel Kv4.2 in Shielding Kv channel Interacting Protein (KCHIP) from Degradation

University of Texas at Dallas (Texas)

Preceptors: Dr. Dax Hoffman, Dr. Meghyn Welch

6-089. John Prevedel

The Zebrafish Pharynx: A Model to Examine Pharyngeal Development, Structure, and Function

University of Wyoming (Wyoming)

Preceptors: Dr. Brant Weinstein, Dr. Kiyohito Taimatsu

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6-090. Jean Prosper Santiago

Visualizing Vascular and Immune Function After Traumatic Brain Injury in Adult Zebrafish

Inter American University of Puerto- San German (Puerto Rico)

Preceptors: Dr. Brant Weinstein, Dr. Aurora Kraus

6-091. Amit Puthan

Signaling from Differentiating Osteoclasts to Osteoblasts Important for Bone Remodeling

City University of New York Hunter College (New York)

Preceptor: Dr. Leonid Chernomordik

6-092. Priyanka Ravi

Analysis of Single Cell Movement Reveals Patterns of Mechanical Coupling During Collective Cell Migration

University of Maryland, College Park (Maryland)

Preceptors: Dr. Ajay Chitnis, Dr. Abhishek Mukherjee

6-093. Isadora Rocha De Abreu

Towards structural determination of human Mg²⁺ channel MRS2 in a lipid environment

Nova Southeastern University (Florida)

Preceptors: Dr. Doreen Matthies, Dr. Louis Tung Faat Lai

6-094. Morgan Roegner

Exploring Sex-linked Changes in the Expression of Proteins Regulating Cell-cell Fusion Stage of Osteoclastogenesis

Michigan State University (Michigan)

Preceptors: Dr. Jarred Whitlock, Dr. Leonid Chernomordik

6-095. Rose Runyan

A genomics-based approach to studying meiotic recombination

Wilson College (Pennsylvania)

Preceptor: Dr. Leah Rosin

6-096. Hiya Sawhney

Characterizing low-field NMR biomarkers to assess hydrogel collagen/fibrin content

University of Maryland, College Park (Maryland)

Preceptors: Dr. Peter Basser, Dr. Velencia Witherspoon

6-097. Benjamin Sempowski

Pathogenic Variant in KRAS (p. G12C) Causes Central Conducting Lymphatic Anomaly

Davidson College (North Carolina)

Preceptors: Dr. Sarah Sheppard, Dr. Scott Paulissen

6-098. Julia Silberman

Characterizing protein regulators of motility in the Lyme pathogen

Tufts University (Massachusetts)

Preceptor: Dr. Philip Adams

* Denotes that poster number was updated after the index was completed

- 6-099. Matt Siroty
Investigating food-related implicit biases and their relationships with subjective and objective socioeconomic status in a large sample
William & Mary (Virginia)
Preceptor: Dr. Bobby Cheon
- 6-100. Asma Sodager
Cerebral Tissue Oxygen Saturation Response to a Breath-Holding Task
University of California, Irvine (California)
Preceptors: Dr. Thien Nguyen, Dr. Amir Gandjbakhche
- 6-101. Megan Sousa
Characterizing lung development in G610C mouse model of osteogenesis imperfecta
University of California, Berkeley (California)
Preceptor: Dr. Sergey Leikin
- 6-102. Regina Stasser de Gonzalez
Identifying novel proteins modified by phosphatidylethanolamine
Oberlin College (Ohio)
Preceptors: Dr. Anirban Banerjee, Dr. Natalia Gomez Navarro
- 6-103. Ryan Stoner
Probing the Biochemical and Structural Properties of HRG1 in Heme Trafficking Homeostasis
University of Colorado Boulder (Colorado)
Preceptors: Dr. Anirban Banerjee, Dr. Elvis Ongey
- 6-104. Chetana Suvarna
The Role of an IRF8 DBD Mutation in Innate Immunity
Virginia Tech (Virginia)
Preceptor: Dr. Keiko Ozato
- 6-105. Anthony Tanzillo
H3.3K4M mutation of MGE-derived interneurons causes neurodevelopmental defects
University of California, Los Angeles (California)
Preceptor: Dr. Timothy Petros
- 6-106. Andre Tulloch
Racial differences in systemic inflammation during pregnancy and implications for preterm birth
University of Rochester (New York)
Preceptor: Dr. Stephen Gilman
- 6-107. Mya Wolfe
Testing the effect of a novel estrogen receptor modulator STX, on the mitochondrial Voltage-Dependent Anion Channel (VDAC).
Wittenberg University (Ohio)
Preceptors: Dr. Sergey Bezrukov, Dr. Tatiana Rostovtseva

* Denotes that poster number was updated after the index was completed

6-108. Rida Zainab
Germline and somatic genetic findings in pituitary neuroendocrine tumors
University of North Carolina at Charlotte (North Carolina)
Preceptor: Dr. Christina Tatsi

NIDCR - National Institute of Dental and Craniofacial Research (Posters 6-109 – 6-134)

6-109. Aleena Arif
Effects of RANKL inhibition on osteotomy healing in a murine model of fibrous dysplasia
Arizona State University (Arizona)
Preceptor: Dr. Alison Boyce

6-110. Frank Boksa
Role of SPINK5 and KLK7 in mucosal hyperkeratosis in chronic Graft-Versus-Host Disease (CGVHD)
University of Iowa (Iowa)
Preceptors: Dr. Jacqueline Mays, Dr. Rubina Sharma

6-111. William Bryant
Development of a Novel PET/CT Imaging Technique to Quantitatively Assess Tumoral Calcinosi
Vanderbilt University (Tennessee)
Preceptors: Dr. Michael Collins, Dr. Kelly Roszko

6-112. Belmaliz Cardona
Characterizing oral mucosal fibroblast subpopulations in health and inflammatory disease
University of Puerto Rico of Mayaguez (Puerto Rico)
Preceptors: Dr. Niki Moutsopoulos, Dr. Tomoko Ikeuchi

6-113. Yevin Chung
Loss of the Glycosyltransferase Galnt2 Results in Irregular Craniofacial Morphology
Brown University (Rhode Island)
Preceptors: Dr. Kelly Ten Hagen, Dr. Jeeyoung Lee

6-114. Isabella Conway
Deciphering the onset of dysbiosis and consequences on tissue integrity upon myeloid Notch2 deficiency
University of Pittsburgh (Pennsylvania)
Preceptors: Dr. Roxane Tussiwand, Mr. Grozdan Cvijetic

6-115. Ibrahim Elbashir
Efficacy of Moderate-Dose Denosumab in Fibrous Dysplasia: Secondary Results from a Phase 2 Clinical Trial
University of Central Florida (Florida)
Preceptor: Dr. Alison Boyce

6-116. Maya English
Biochemical characterization of UBA1 mutations across different diseases
Carnegie Mellon University (Pennsylvania)
Preceptors: Dr. Achim Werner, Dr. Jason Collins

* Denotes that poster number was updated after the index was completed

6-117. Bianca Gamadia

A CRISPRi screen to investigate the role of ubiquitylation in neural crest cell-fate decisions

Stockton University (New Jersey)

Preceptor: Dr. Shaun Abrams

6-118. Erfan Jabari

Under pressure: Understanding How Hydrostatic Pressure Influences the Stromal-Hematopoietic Stem Cell Interplay

University of Maryland, College Park (Maryland)

Preceptor: Dr. Roxane Tussiwand

6-119. Tristan Kent

Development of Novel RNA-Based Technique for Bone Analysis

York College of Pennsylvania (Pennsylvania)

Preceptors: Dr. Michael Collins, Dr. Luis Fernandez de Castro Diaz

6-120. Jamiya Kirkland

Characterizing Neural Crest Properties of Neuroblastoma

Howard University (District of Columbia)

Preceptor: Dr. Laura Kerosuo

6-121. Rachel Kulchar

Single cell and spatial transcriptomic analysis of granulomatous sialadenitis, a novel irAE, induced by immune checkpoint inhibitors

Princeton University (New Jersey)

Preceptors: Dr. Blake Warner, Dr. Paola Perez

6-122. Ethan Lane

Specific 3-O-Sulfated Heparan Sulfate Domains Regulate Salivary Gland Basement Membrane Metabolism and Epithelial Differentiation

St. John Fisher College (New York)

Preceptors: Dr. Matthew Hoffman, Dr. Vaishali Patel

6-123. Alexander Lara

Mapping sites of O-glycosylation in Mouse Salivary Mucin Muc10

University of California Davis (California)

Preceptor: Dr. Lawrence Tabak

6-124. Benjamin LeBlanc

ER/PM tethering proteins E-Syts 1 and 2 regulate insertion and function of ANO1 in the plasma membrane

Clemson University (South Carolina)

Preceptor: Dr. Shmuel Muallem

6-125. Daizsah McQueen

The Role of Centrioles in Coordinating Craniofacial Development

North Carolina Agricultural and Technical State University (North Carolina)

Preceptor: Dr. Shaun Abrams

* Denotes that poster number was updated after the index was completed

6-126. Ava Movahed Abtahi

The ER/PM junctions tether ANO8 regulates Orai1-STIM1 function by r

Washington Adventist University (Maryland)

Preceptors: Dr. Shmuel Muallem, Dr. Wooyoung Chung

6-127. Nia Muhammad

In vivo mapping of Galnt3 / GalNAc-T3-specific O-Glycoproteome in Mouse Reproductive Tissues

Stanford University (California)

Preceptor: Dr. Lawrence Tabak

6-128. Emily Naylor

D-mannose restricts CD8 T cell activation and mitigates Sjögren's syndrome

Utah Valley University (Maryland)

Preceptors: Dr. Wanjun Chen, Dr. Thierry Gauthier

6-129. Tiffany Nguyen

Critical Role of Fibrinolysis in Hematopoietic Recovery After Myelosuppression

York College of Pennsylvania (Pennsylvania)

Preceptors: Dr. Thomas Bugge, Dr. Lakmali Silva

6-130. Sravya Pailla

Investigating the Role of Pluripotency Factors in the Human Neural Crest

Georgetown University (District of Columbia)

Preceptors: Dr. Laura Kerosuo, Dr. Karla Barbosa-Sabanero

6-131. Megha Patel

Biochemical and Structural Studies of CsaA: A Bifunctional Enzyme Involved in Capsular Polysaccharide Synthesis

University of South Carolina (South Carolina)

Preceptor: Dr. Nadine Samara

6-132. Alana Slekar

Investigating mechanisms of Loews-Dietz Syndrome Type-II through a murine iPSC-derived model

West Virginia University (West Virginia)

Preceptors: Dr. Janice Lee, Dr. Olivier Duverger

6-133. Shareef Syed

Mab21l2-expressing cells contribute to synovial joint development

New Jersey Institute of Technology (New Jersey)

Preceptors: Dr. Pamela Robey, Dr. Katarzyna Futrega

6-134. Andrew Zhang

On- and off-targets of tumor-selective anthrax toxins

Indiana University - Bloomington (Indiana)

Preceptor: Dr. Thomas Bugge

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NLM - National Library of Medicine (Posters 6-135 – 6-138)

6-135. Ethan Chen

AlphaFold2 has more to learn about protein energy landscapes

Purdue University West Lafayette (Indiana)

Preceptor: Dr. Lauren Porter

6-136. Lily Kreps

Genetic Diversity of Influenza A Viruses in Wild Waterfowl in Argentina, 2017-2019

Georgetown University (District of Columbia)

Preceptors: Dr. Martha Nelson, Dr. David Landsman

6-137. Ashley Shin

Harnessing PubMed User Query Logs for Post Hoc Explanations of Recommended Similar Articles

University of California, Santa Barbara (California)

Preceptor: Dr. Zhiyong Lu

6-138. Jemison Yewah

Exploring the activity of putative GCN5-related N-Acetyltransferase HqbA and the significance of its interaction with Hfq chaperone protein in Escherichia coli.

Michigan State University (Michigan)

Preceptors: Dr. Aravind L. Iyer, Dr. Susan Gottesman

NICHD - Eunice Kennedy Shriver National Institute of Child Health and Human Development (Poster 6-139)

6-139. Zoe Chang*

Systemic Inflammation and Depressive symptoms in Adolescents and Young Adults

Hunter College (Maryland)

Preceptor: Dr. Stephen Gilman

Thursday, May 2, 2024

Session 7: 1:30 p.m. – 2:45 p.m. (ET) (Posters 7-001 – 7-139)

NCCIH - National Center for Complementary and Integrative Health (Posters 7-001 – 7-012)

7-001. Rakshita Balaji

A genetic strategy to suppress neuropeptide signaling from nociceptors

University of Maryland, College Park (Maryland)

Preceptors: Dr. Alexander Chesler, Dr. Donald MacDonald

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7-002. Jolyna Chiangong

Gender, race, and generational status and beliefs about pain sensitivity, pain endurance, and willingness to report pain

Johns Hopkins University (Maryland)

Preceptors: Dr. Lauren Atlas, Dr. Yili Zhao

7-003. William Fortun

Role in pain sensitization and nociceptive behaviors of Pituitary Adenylate Cyclase-Activating Polypeptide (PACAP)

Universidad Ana G Mendez Recinto de Carolina (Puerto Rico)

Preceptor: Dr. Yarimar Carrasquillo

7-004. Jonathan Garcia

An Integrative Role of The Central Amygdala in Stress and Analgesia

University of Maryland, College Park (Maryland)

Preceptor: Dr. Yarimar Carrasquillo

7-005. Saba Ghodrati

Evaluating pain-related synaptic plasticity in the basolateral to central amygdala pathway

University of Texas at San Antonio (Texas)

Preceptor: Dr. Yarimar Carrasquillo

7-006. Jasdeep Kang

Does empathy impact physiological arousal in response to other's pain?

Ohio State University (Ohio)

Preceptors: Dr. Lauren Atlas, Dr. Yili Zhao

7-007. Caitlin Madden

Chemically targeting touch: Engineering the PIEZO2 ion channel to respond to an agonist

University of Maryland (Maryland)

Preceptors: Dr. Alec Nickolls, Dr. Alexander Chesler

7-008. Ruth Mosunmade

Pain Associated Facial Feature Detection: Evaluating Potential Bias in Artificial Intelligence Software

Amherst College (Massachusetts)

Preceptors: Dr. Lauren Atlas, Dr. Yili Zhao

7-009. Benjamin Neugebauer

Physiological properties of genetic and projection specific neurons of the spinopontoamygdaloid pathway in a rodent model of neuropathic pain

Texas Tech University (Texas)

Preceptor: Dr. Yarimar Carrasquillo

7-010. Gloria Ogordi

In-vivo functional imaging of primary sensory neurons innervating whiskers in mice

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Alexander Chesler, Dr. Nima Ghitani

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7-011. Caroline Pierotti
A Distinct Class of Touch Neurons in the Geniculate Ganglion
Oberlin College (Ohio)
Preceptor: Dr. Alexander Chesler

7-012. Kai Sherwood
Investigating Individual Differences in Electrodermal Responses During the Anticipation of Appetitive and Aversive Stimuli
College of William & Mary (Virginia)
Preceptors: Dr. Lauren Atlas, Dr. Yili Zhao

NCI - National Cancer Institute (A-L) (Posters 7-013 – 7-123)

7-013. Atuahene Adu-Gyamfi
Functional Analysis of the novel GWAS Signal on Chromosome 21q for Childhood Burkitt's Lymphoma
Virginia Commonwealth University (Virginia)
Preceptors: Dr. Ludmila Prokunina Olsson, Dr. Sam Mbulaiteye

7-014. Shadin Ahmed
The Role of Proteomic Stabilizer PROT1 in Neutrophil Preservation during Whole-blood Fixation
College of William and Mary (Virginia)
Preceptor: Dr. Rosandra Kaplan

7-015. Sherifa Akinniyi
Genome-First Approach to Understanding the Prevalence and Associated Phenotypes of Individuals with Germline TERT Variants
Univeristy of Georgia (Georgia)
Preceptors: Dr. Kelvin Cesar de Andrade, Dr. Sharon Savage

7-016. Astrid Alvarez de La Cruz
Developing Nanobodies for LRRK structural and biochemical analysis
Antillean Adventist University (Puerto Rico)
Preceptors: Dr. Ping Zhang, Dr. Riley Metcalfe

7-017. Tiffany Andohkwo
Epigenetic Inactivation of CTHRC1 enhances Immune Suppressive Microenvironment in Breast Cancer Metastasis
University of Maryland, College Park, MD (Maryland)
Preceptors: Dr. Li Yang, Dr. Jae Young So

7-018. Stephen Andrews
Single nucleus resolved multiomic analysis of small intestinal neuroendocrine tumors and matched liver metastases reveals gene expression changes associated with disease progression.
Pennsylvania State University (Pennsylvania)
Preceptors: Dr. Samira Sadowski, Dr. James Madigan

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7-019. Benjamin Angeles

Generation of anti-tumor chimeric antigen receptors incorporating T cell signaling motifs

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Lakshmi Balagopalan, Dr. Lawrence Samelson

7-020. Michelle Antony

Massively parallel report assay reveals functional variants, putative upstream regulators, and target genes influencing lung cancer susceptibility

University of Connecticut (Connecticut)

Preceptor: Dr. Jiyeon Choi

7-021. Ahlina Archibald

Novel function of the secreted ribonuclease 1 in intracellular mRNA decay

Howard University (District of Columbia)

Preceptor: Dr. Ashish Lal

7-022. Lorenzo Argao

Immune checkpoint inhibitor nivolumab in people with recurrent select rare CNS cancers

University of Texas at Austin (Texas)

Preceptor: Dr. Marta Penas-Prado

7-023. Gabriela Arroyo

Hispanic Inclusion in Liver Cancer Research Databases in the United States

University of Puerto Rico, Rio Piedras Campus (Puerto Rico)

Preceptors: Dr. Cecilia Monge, Dr. Tim Greten

7-024. Rachel Ashe

Investigating the pharmacokinetics of the PNC inhibitor Metarrestin in patients with metastatic cancers using a novel LC-MS/MS method

University of Vermont (Vermont)

Preceptors: Dr. Keith Schmidt, Dr. William Figg

7-025. Katerina Atallah-Yunes

Mapping the Colon Cancer Proteasome Interactome Using In Situ Crosslinking Mass Spectrometry of Endogenous Protein Complexes

Colgate University (New York)

Preceptor: Dr. Francis O'Reilly

7-026. Kara Barnao

Characterization of co-occurring clonal hematopoiesis to identify high risk clones associated with hematologic malignancy risk

Johns Hopkins University (Maryland)

Preceptor: Dr. Mitchell Machiela

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- 7-027. Ivy Barrett
Chemical Biological Methods of Analyzing GalNAc-Tyrosine
Grinnell College (Iowa)
Preceptor: Dr. Jeffrey Gildersleeve
- 7-028. Madeline Barry
Empanada V 1.1: Deep Learning segmentation model for EM images
University of Maryland (Maryland)
Preceptor: Dr. Kedar Narayan
- 7-029. Jacqueline Battaile
Unveiling the Impact of B5t Thymoproteasome on Killer T Cell Development
Georgetown University (District of Columbia)
Preceptor: Dr. Yousuke Takahama
- 7-030. Taran Bauer
Diverse function and role of rssB homologues in gammaproteobacteria
Cornell University (Maryland)
Preceptor: Dr. Susan Gottesman
- 7-031. Erica Beatson
Targeting Translational Machinery for the Treatment of Metastatic Castration Resistant Prostate Cancer
Lafayette College (Pennsylvania)
Preceptors: Dr. William Figg, Dr. Cindy Chau
- 7-032. Braden Bell
Developing novel in vitro models to study basal cell carcinoma
Gonzaga University (Washington)
Preceptors: Dr. Sarah Krantz, Dr. Ramiro Iglesias-Bartolome
- 7-033. Sefanit Berhanu
Assessing Sleep in Primary Brain Tumor Patients using Physiologic Data from Smart Wearables and Patient-Reported Data: Feasibility and Interim Analysis of an Observational Study
Cornell University (New York)
Preceptors: Dr. Terri Armstrong, Dr. Amanda King
- 7-034. Aneesa Bhakta
Glycome Profiling with a DNA-Barcoded Antibody Library
University of Texas at Austin (Texas)
Preceptor: Dr. Jeffrey Gildersleeve
- 7-035. Aarushi Bhasin
Establishing Patient-Derived Tumor Organoid to Direct Adoptive Cell Therapy for Common Cancers
University of South Carolina (South Carolina)
Preceptors: Dr. James Yang, Dr. Billel Gasmi

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7-036. Cassidy Bowden

Portal Venous Microbiome Characterization using Metagenomics in Germline CDH1 Variant Carriers

Bay Path University (Massachusetts)

Preceptor: Dr. Jeremy Davis

7-037. Claire Bradley

Repurposing anti-viral and anti-vaccine cell-mediated immunity for local immunotherapy against solid tumors

University of Minnesota, Twin Cities (Minnesota)

Preceptors: Dr. John Schiller, Dr. Nicolas Cuburu

7-038. Nick Brill-Edwards

LZK and PI3K Inhibitors in Combination for Treatment of HNSCC

Davidson College (North Carolina)

Preceptors: Dr. John Brognard, Dr. Lily Klapper

7-039. Benjamin Brim

Direct Co-Targeting of BCL-xL and MCL-1 Synergistically Down-Regulates AR-V7 and Induces Cell Death in Castration-Resistant Prostate Cancer Cells

Grinnell College (Iowa)

Preceptors: Dr. William Douglas Figg, Dr. Cindy Chau

7-040. Lauryn Brown

Resolving the human hepatic proteome at a single-cell resolution using Deep Visual Proteomics

Virginia Commonwealth University (Virginia)

Preceptor: Dr. Natalie Porat-Shliom

7-041. Rand Gabriel Buenaventura

Identification of PAEP as an immune activity modulator to mediate the immune resistance in tumor metastasis

Virginia Commonwealth University (Virginia)

Preceptors: Dr. Yanlin Yu, Dr. Glenn Merlino

7-042. Cian Callahan

Prediction of primary NK cell response to K562 target cells based on HLA signal peptide genotype

University of Dayton (Ohio)

Preceptor: Dr. Mary Carrington

7-043. Kenneth Canubas

Emergence of lymphoid aggregates in response to immunotherapy combination in murine colorectal cancer

Georgetown University (District of Columbia)

Preceptors: Dr. James Gulley, Dr. Wiem Lassoued

7-044. Rithik Castelino

Characterizing the Binding of Small Molecule Depletors of hRpn13 Pru

Duke University (North Carolina)

Preceptors: Dr. Kylie Walters, Dr. Bakar Hassan

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7-045. Alexandra Castroverde

Evaluating an AlphaFold-based platform for the discovery and validation of dominant-negative protein fragments

Cornell University (New York)

Preceptor: Dr. Jordan Meier

7-046. Alex Chen

HistoTME: predicting the tumor microenvironment composition and immunotherapy response in non-small cell lung cancer from digital histopathology images

University of Pennsylvania (Pennsylvania)

Preceptors: Dr. Sushant Patkar, Dr. Baris Turkbey

7-047. Amanda Chen

Establishing Personalized Neoantigen Screening Platform for Myeloid Cancer Immunotherapy

University of Washington (Washington)

Preceptor: Dr. Vid Leko

7-048. Emily Chen

Mechanisms of membrane remodeling during early neutrophil polarization

Tufts University (Massachusetts)

Preceptor: Dr. Roberto Weigert

7-049. Dhearaj Chennupati

Mechanistic Insights into DLK1's Role in ACC: Exploring Notch and STING Pathway Interactions

Vanderbilt University (Tennessee)

Preceptors: Dr. Nitin Roper, Dr. Suresh Kumar

7-050. Anne-Cecile Choutedjem

Do FGFR3 and FGFR4 play a role in axis extension during vertebrate embryonic development?

University of Maryland, Baltimore County (Maryland)

Preceptor: Dr. Mark Lewandoski

7-051. Natalie Convertino

Weak interaction between SLP-76 and PLC- γ 1 within heterotetrameric circular complex upon TCR engagement fine-tunes TCR signal strength

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. Lawrence Samelson, Dr. Hidehiro Yamane

7-052. Morgan Coombs

Glioblastoma-enriched lipids facilitate communication with human type I NKT cells

Brigham Young University (Utah)

Preceptors: Dr. Masaki Terabe, Dr. Mioara Larion

7-053. Xiwen Cui

Structural Variant Dynamics in Melanoma: Unraveling Tumor Heterogeneity and Evolution

Cornell University (New York)

Preceptors: Dr. Cenk Sahinalp, Dr. Chi-Ping Day

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7-054. Shannon Culbert

Mammalian display and evolution of anti-glycan antibodies

University of Notre Dame (Indiana)

Preceptor: Dr. Jeff Gildersleeve

7-055. Emma Davis

Non-canonical Factors are Required for RNAPII Transcription via Formation of Transcriptionally Active Condensates

Troy University (Alabama)

Preceptors: Dr. David Levens, Dr. Brian Lewis

7-056. Griffin Davis

Development of ISG15-based Probes for Selective USP18 Activity Profiling

Emory University (Georgia)

Preceptor: Dr. Euna Yoo

7-057. Eilene Deng

TAGAP: A New Regulator of T Cell Signaling

Pennsylvania State University (Pennsylvania)

Preceptor: Dr. Vanja Lazarevic

7-058. Abigail Dennis

Establishing pathogenicity of noncoding CDKN2B single nucleotide variants in high-risk melanoma families

North Dakota State University (North Dakota)

Preceptor: Dr. Kevin Brown

7-059. Anjali Devabhaktuni

Targeting ATR in Kidney Cancer

Loyola University at Chicago (Illinois)

Preceptors: Dr. Ramprasad Srinivasan, Dr. Sameer Issaq

7-060. Allison Dockman

Analysis of Circulating Cytokines in Plexiform Neurofibroma Patients Before and After Treatment with Pegylated Interferon

Haverford College (Pennsylvania)

Preceptors: Dr. Mary Frances Wedekind Malone, Dr. Karlyne Reilly

7-061. Alyssa Doverte

Cerebrospinal Fluid Evaluation by Flow Cytometry in Patients with B-Cell Lymphoma: Challenges and New Approaches

Loyola University Maryland (Maryland)

Preceptors: Dr. Constance Yuan, Dr. Hao-Wei Wang

7-062. Victoria Dulemba

Specificity and Phenotypes of Antitumor CD8+ T cells Within Human Tumor Draining Lymph Nodes

Pepperdine University (California)

Preceptor: Dr. Sri Krishna

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7-063. Wendy Fang

Depleting SWI/SNF ATPases in Neuroblastoma Reduces Proliferation, Invasion, and Heterogeneity

University of California, Berkeley (California)

Preceptors: Dr. Zhihui Liu, Dr. Carol Thiele

7-064. Mia Fanuzzi

Evaluation of B7-H3 Nanobody CAR-T Cells in Pediatric Glioblastoma

American University (District of Columbia)

Preceptor: Dr. Anandani Nellan

7-065. Fiona Flynn

Programmed Necrosis in Infection: Listeria monocytogenes pathogenesis in a programmed necrosis-deficient, murine model

Georgia Institute of Technology (Georgia)

Preceptor: Dr. Christian Mayer

7-066. Greta Forbes

Modulating Hyaluronic Acid and its Impact on the Immune Microenvironment during Cancer Progression

University of Maryland, College Park (Maryland)

Preceptors: Dr. Rosandra Kaplan, Dr. Alice Browne

7-067. Kelcie Foss

Targeting human oncogene PKC iota in various cancers through PROTAC targeting degradation

College of William and Mary (Virginia)

Preceptor: Dr. John Brognard

7-068. Julia Francis

Sex differences in anti-EBV antibody responses

Columbia University (New York)

Preceptor: Dr. Sarah Jackson

7-069. Jamirra Franklin

Neighborhood environment and presence of crown-like structures in breast tissues of a diverse cohort of women with and without breast cancer

Spelman College (Maryland)

Preceptors: Dr. Alexandria Harris, Dr. Stefan Ambs

7-070. Lynn Fu

Tethered IL-15 augments the persistence and cytotoxicity of gamma delta CAR T cells against acute myelogenous leukemia

Amherst College (Massachusetts)

Preceptors: Dr. Alka Dwivedi, Dr. Naomi Taylor

* Denotes that poster number was updated after the index was completed

- 7-071. Kathleen Garchitorena
Preclinical evaluation of a novel series of polyfluorinated thalidomide analogs in lenalidomide- and pomalidomide-resistant multiple myeloma cells
University of Richmond (Virginia)
Preceptors: Dr. William Figg, Dr. Cindy Chau
- 7-072. Kelly Gaudian
Mechanisms of T-cell lymphoma vulnerability revealed through chromatin accessibility
Gettysburg College (Pennsylvania)
Preceptor: Dr. Samuel Ng
- 7-073. Tristen Gittens
Glycome Profiling with Anti-Glycan Antibodies
Vanderbilt University (Tennessee)
Preceptor: Dr. Jeffrey Gildersleeve
- 7-074. Morgan Glass
Ex vivo pericyte modeling to reveal organ-specific roles for pericytes in metastasis
West Virginia University (West Virginia)
Preceptor: Dr. Meera Murgai
- 7-075. Mory Gould
Introduction by TALEN of MAP2K1 mutations found in hairy cell leukemia and its variant
Indiana University (Indiana)
Preceptors: Dr. Robert Kreitman, Dr. Evgeny Arons
- 7-076. Emily Guo
Mammalian Display for Evolution of Anti-Glycan Antibodies
Washington University in St. Louis (Missouri)
Preceptor: Dr. Jeff Gildersleeve
- 7-077. Christian Haryanto
Dissecting the Role of Mechanical Adaptation in Metastasis and Drug Resistance
University of Maryland College Park (Maryland)
Preceptors: Dr. Kandice Tanner, Dr. Michael Gottesman
- 7-078. Gretchen Heidebrink
Biochemical Characterization of Novel ATP-Analog Sensitive Cdk4/6
University of Michigan - Ann Arbor (Michigan)
Preceptor: Dr. Mardo Kõivomägi
- 7-079. Carmen Hernandez Perez
Role of EPST11 Isoforms during KSHV Infection
California State University Northridge (California)
Preceptors: Dr. Sarah Dremel, Dr. Joe Ziegelbauer

* Denotes that poster number was updated after the index was completed

7-080. Christopher Heron

Heterogeneous tissue origins of NKp46+ ILCs during TH17-mediated neuroinflammation

University of Virginia (Virginia)

Preceptor: Dr. Vanja Lazarevic

7-081. Nathan Heyen

FOXO Transcription Factors Regulate the Identity and Function of Regulatory T Cells

Northwestern University (Illinois)

Preceptors: Dr. Xuguang Tai, Dr. Alfred Singer

7-082. Emily Hnath

Targeting DNA Repair in Kidney Cancer

Virginia Polytechnic Institute and State University (Virginia)

Preceptors: Dr. Ramaprasad Srinivasan, Dr. Sameer Issaq

7-083. Chloe Hoang

Long-term Follow-up Post-CAR T-cell Therapy in Children and Young Adults with B-cell Acute Lymphoblastic Leukemia

University of Virginia (Virginia)

Preceptor: Dr. Nirali Shah

7-084. Le Hoang

The Effects of Estradiol and Estriol Secretion Pattern on Estrogen Receptor Dynamic and Gene Regulation

University of Texas at Austin (Texas)

Preceptor: Dr. Diana Stavreva

7-085. Nicole Hsiao-Sánchez

Docetaxel reverses immune checkpoint blockade induced modulation of the tumor microenvironment in preclinical murine models of cancer

University of Puerto Rico Río Piedras (Puerto Rico)

Preceptors: Dr. Claudia Palena, Dr. Lucas Horn

7-086. Emory Hsieh

Extracellular Vesicles as Biomarkers for Outcomes in Primary Brain Tumor patients

Johns Hopkins University (Maryland)

Preceptors: Dr. Terri Armstrong, Dr. Vivian Guedes

7-087. Caitlin Huguely

Phase II Trial Evaluating the Association of Peripheral Blood Immunologic Response and Therapeutic Response to Immune Checkpoint Inhibition in Patients with Newly Diagnosed Glioblastoma and Gliosarcoma

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Masashi Watanabe, Dr. Mark Gilbert

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- 7-088. Mae Ellen Hurtado-Thiele
T-BET Controls CD4+ TH17 Cell Localization, Egress, and Myeloid Cell Recruitment in Experimental Autoimmune Encephalomyelitis
University of Wisconsin - Madison (Wisconsin)
Preceptor: Dr. Vanja Lazarevic
- 7-089. Sana Hussaini
A Progress Report of the NCI-CONNECT Rare CNS Tissue Outcomes Study: Tumor Tissue Analysis and Clinical Data Integration
Wayne State University (Michigan)
Preceptor: Dr. Marta Penas-Prado
- 7-090. Laura Hutchins
Novel gamma/delta TCR-based CAR targeting GPC2 and B7-H3 regress antigen low neuroblastoma in mice
University of Michigan, Ann Arbor (Michigan)
Preceptors: Dr. Mitchell Ho, Dr. Dan Li
- 7-091. Makana Ioh
Characterizing binding patterns of transcription factors controlling exocrine pancreas lineages
University of Hawai'i at Manoa (Hawaii)
Preceptor: Dr. Efsun Arda
- 7-092. Armond Isaak
Investigation of molecular alterations associated with double resistance to BRAF and MEK inhibition in melanoma
Creighton University (Nebraska)
Preceptors: Dr. Yanlin Yu, Dr. Glenn Merlino
- 7-093. Connor Jewell
Characterizing Off-Target Effects of HIV Inhibitor SAMT-247 Using Thermal Proteome Profiling
University of Connecticut (Connecticut)
Preceptor: Dr. Lisa Jenkins
- 7-094. Katrina Jia
Endogenous HiBiT-tagging of fusion oncogene PAX3-FOXO1 reveals downregulation of PAX3-FOXO1 levels by CDK inhibitors
Northeastern University (Massachusetts)
Preceptor: Dr. Javed Khan
- 7-095. Neal Jiwnani
Engineering dCas13 for Genetically Encoded Disruption of RNA-Binding Protein Interactions
Northeastern University (Massachusetts)
Preceptors: Dr. Stavroula Mili, Dr. Devon Mason

* Denotes that poster number was updated after the index was completed

7-096. Morgan Johnson

Psychometric analysis of Neuro-QoL Perceived Cognition Function Tool in primary brain tumor patients

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Terri Armstrong, Dr. Tito Mendoza

7-097. Kaelyn Julmeus

Development and accomplishments of the Office of Patient-Centered Outcomes Research (OPCORE)

Florida Gulf Coast University (Florida)

Preceptors: Dr. Amanda King, Dr. Terri Armstrong

7-098. Raina Jung

Effects of Manufacturing CD8 T cells in Isolation or With CD4 T cells

Colgate University (New York)

Preceptor: Dr. Nicholas Klemen

7-099. Nisha Kalmadi

Genomic Analysis of Renal Medullary Carcinoma to Determine Genes for Targeted Immunotherapy in Primary and Metastatic Tumors

Arizona State University (Arizona)

Preceptors: Dr. Andrea Apolo, Dr. Rouf Banday

7-100. Alexander Kane

Investigating the cell-type specific regulation of IRF4 and its role in lung cancer via a lung cancer risk-associated pleiotropic variant

Rutgers University (New Jersey)

Preceptor: Dr. Jiyeon Choi

7-101. Zuena Karim

The impact of neighborhood-level disadvantage on the patient-reported outcomes of primary brain tumor patients

University of Texas at Austin (Texas)

Preceptors: Dr. Terri Armstrong, Dr. Macy Stockdill

7-102. Erika Kaschak

Longitudinal Follow-Up and Outcomes of Pediatric and Adult Patients with SDH-deficient GIST

Notre Dame of Maryland University (Maryland)

Preceptors: Dr. John Glod, Dr. Mary Frances Wedekind Malone

7-103. McKenzie Kauss

Association between C-reactive Protein and Cognitive Impairment in IDH-mutant Gliomas

University of Michigan (Michigan)

Preceptors: Dr. Vivian Guedes, Dr. Terri Armstrong

7-104. Aditya Kavuturu

Extracellular Matrix Biophysical Properties Change During Nevus to Melanoma Progression

University of Maryland, Baltimore (Maryland)

Preceptors: Dr. Maira Constantino, Dr. Glenn Merlino

* Denotes that poster number was updated after the index was completed

- 7-105. Abeni Kazi
Oncohistone mutations facilitate CENP-A mislocalization
University of Maryland, College Park (Maryland)
Preceptor: Dr. Munira Basrai
- 7-106. Avaneesh Kilnagar
Centriole Identification from Volume EM Imaging for Machine Learning Application
George Mason University (Virginia)
Preceptor: Dr. Christopher Westlake
- 7-107. Hannah Kim
Transforming Growth Factor-beta Affects KRAS Isoform Expression
College of William and Mary (Virginia)
Preceptors: Dr. Christina Stuelten, Dr. Ying Zhang
- 7-108. David Komjathy
Establishing Patient-Derived Lymphocyte Cultures: The First Step in Developing Effective Personalized Cellular Immunotherapy
University of Wisconsin–Madison (Wisconsin)
Preceptor: Dr. Stephanie Goff
- 7-109. Emma Kosmeder
Validation of Synthetic Lethality Candidates from a Genome-Wide CRISPR/Cas9 Screen of mTOR
Colgate University (New York)
Preceptors: Dr. Beverly Mock, Dr. Joe Nguyen
- 7-110. Shriya Krishna
Investigating the Mechanism of mRNA Modification N4-Acetylcytidine in Translation Elongation
Northeastern University (Massachusetts)
Preceptor: Dr. Shalini Oberdoerffer
- 7-111. Nana Kusi
Differential Gene Expression and Pathway Exploration in CellMinerCDB: A Web-Based Tool for the Analysis of RNA-Seq Data in Cancer Cell Lines
Washington University in St. Louis (Missouri)
Preceptor: Dr. Mirit Aladjem
- 7-112. Jarod Labrador
Investigating the Role of mEAK-7 in Head and Neck Cancer
Iowa State University (Iowa)
Preceptors: Mrs. Wendy Dubois, Dr. Beverly Mock
- 7-113. Zabrina Lang
Structure Determination of an Oncogenic Thyroid Hormone Receptor Complex using Cryo-Electron Microscopy
Georgia Institute of Technology (Georgia)
Preceptors: Dr. Di Xia, Dr. Rick Huang

* Denotes that poster number was updated after the index was completed

- 7-114. Hannah LaPoint
Androgen Receptor Gene Transcription Regulation Under Pulsatile and Constant Hormone Stimulation
Pennsylvania State University (Pennsylvania)
Preceptors: Dr. Diana Stavreva, Dr. Gordon Hager
- 7-115. Maya Larbi
Investigating Why DNMT3A Methylates CpA DNA in Neurons
Towson University (Maryland)
Preceptor: Dr. Lisa Boxer
- 7-116. Laila Latifi
The role of T cell mediated immunosurveillance against intracranial murine glioblastoma
University of Virginia (Virginia)
Preceptor: Dr. Masaki Terabe
- 7-117. Julie Lee
Neuropilin-1 as a host dependency factor of Kaposi Sarcoma Herpesvirus/Human Herpesvirus-8
Metropolitan State college of Denver (Colorado)
Preceptors: Dr. Joseph Ziegelbauer, Dr. Anna Serquina
- 7-118. Melody Lee
Single-Cell Spatial Proteomics Analysis of Primary Liver Cancers
Johns Hopkins University (Maryland)
Preceptor: Dr. Lichun Ma
- 7-119. Un Sun Lee
In-vitro and in-vivo activity of novel topoisomerase 1 inhibitors indenoisoquinolines in Ewing sarcoma models
Northwestern University (Illinois)
Preceptor: Dr. Christine Heske
- 7-120. Sayer Lelling
The Role of PLK1 in Prostate Cancer
University of Michigan (Michigan)
Preceptors: Dr. William Figg, Dr. Cindy Chau
- 7-121. Maya Lines
Elucidating the Role of Rab36 in Multiciliogenesis
Lawrence University (Wisconsin)
Preceptors: Dr. Ira Daar, Dr. Jaeho Yoon
- 7-122. Anne Liu
Germline Findings in Cancer Predisposing Genes from a Small Cohort of Chordoma Patients
Carnegie Mellon University (Pennsylvania)
Preceptors: Dr. Mary Frances Wedekind Malone, Dr. Margarita Raygada

* Denotes that poster number was updated after the index was completed

7-123. Ciara Locke

Feasibility of a virtual reality intervention targeting distress and anxiety symptoms in patients with primary brain tumors: Interim analysis of a phase 2 clinical trial

Tuskegee University (Alabama)

Preceptors: Dr. Amanda King, Dr. Terri Armstrong

NIMHD - National Institute on Minority Health and Health Disparities (Posters 7-124 – 7-134)

7-124. Ayesha Azeem

Differences in Prevalence of Current Cigarette and E-Cigarette Use Among Monoracial, Biracial, and Multiracial Asians

Stony Brook University (New York)

Preceptor: Dr. Kelvin Choi

7-125. Sydney Barlow

Discrimination, Racial Socialization, and Hypertension among Black adults in the US

Carnegie Mellon University (Pennsylvania)

Preceptor: Dr. Allana T. Forde

7-126. Maryam Elhabashy

Sex Differences in Psychological Distress Among US Adult Immigrants

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Faustine Williams, Dr. David Adzrago

7-127. Ruth Hailemeskel

Healthcare Discrimination and Hypertension among U.S.-Born and Foreign-Born Black Adults in California

College of William and Mary (Virginia)

Preceptor: Dr. Allana T. Forde

7-128. Manoj Kambara

Increasing Representativeness in the All of Us Cohort Using Inverse Probability Weighting

University of Florida (Florida)

Preceptor: Dr. Leonardo Marino-Ramirez

7-129. Vincent Lam

Discrimination drives health disparities in the All of Us cohort

Cornell University (New York)

Preceptors: Dr. Leonardo Marino-Ramirez, Dr. King Jordan

7-130. Erin Liedtke

Looking Beyond the Extreme: Exploring Associations Between Moderate Temperatures and Cardiovascular ER Visits

University of Colorado Denver (Colorado)

Preceptors: Dr. Shannon Zenk, Dr. Kelly Jones

* Denotes that poster number was updated after the index was completed

7-131. Breanna Rogers

How is Income Associated with the Relationship Between Perceptions of Neighborhood Social Cohesion and Depression?

University of North Carolina at Greensboro (North Carolina)

Preceptor: Dr. Kosuke Tamura

7-132. Melanie Sona

Access to recreational cooling: A multicity analysis of pool and splashpark availability

University of Wisconsin -Madison (Wisconsin)

Preceptors: Dr. Shannon Zenk, Dr. Kelly Jones

7-133. Michael Wakeman

Gamifying attentional bias modification: A qualitative assessment of low socioeconomic smokers' perceptions of a mobile smoking cues training game

Johns Hopkins University (Maryland)

Preceptor: Dr. Sherine El-Toukhy

7-134. Kaitlyn Wojcik

Racial, Ethnic, and Socioeconomic Disparities in Meeting Exercise Guidelines Among U.S. Breast Cancer Survivors

Washington University in St. Louis (Missouri)

Preceptor: Dr. Jinani Jayasekera

NINR - National Institute of Nursing Research (Posters 7-135 – 7-137)

7-135. Mayra Saintilus

Calcium Imaging of HEK-293 cells

Nova Southeastern University (Florida)

Preceptor: Dr. Tokunbor Lawal

7-136. William Thompson

Discrepancies in Sleep Time Between Actigraphy and Journal Records During Cancer Treatment

Santa Clara University (California)

Preceptor: Dr. Leorey Saligan

7-137. Pooja Varma

Quantitative Analysis of Ryanodine Receptor-1 (RyR1) Protein Levels in Muscle Biopsy Samples using RT-PCR

Nova Southeastern University (Florida)

Preceptors: Dr. Claudia Colina Prisco, Dr. Tokunbor Lawal

NCI - National Cancer Institute (Posters 7-138 – 7-139)

7-138. Connor Wang*

Bluer Phototruncation: Direct Conversion of Heptamethine to Trimethine Cyanines

Johns Hopkins University (Maryland)

Preceptor: Dr. Martin Schnermann

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7-139. Shafaq Ahmed*

Multidrug resistance-linked P-glycoprotein: Effect of ligand on the efflux and uptake function

University of North Carolina, Greensboro (North Carolina)

Preceptor: Dr. Suresh Ambudkar

Thursday, May 2, 2024

Session 8: 3:00 p.m. – 4:15 p.m. (ET) (Posters 8-001 – 8-138)

NCATS - National Center for Advancing Translational Sciences (Posters 8-001 – 8-014)

8-001. Lilly Bar

Developing a Risk Register for Adeno-Associated Virus (AAV) Based Gene Therapies

Pomona College (California)

Preceptors: Dr. Rodica Stan, Dr. Joshua Todd

8-002. Martin Carrasco

Uncovering Brain Region-Specific Neurotoxicity Using VTA-like vs PFC-like Human Neural Spheroids

University of Virginia (Virginia)

Preceptors: Dr. Emily Lee, Dr. Marc Ferrer

8-003. Loren Chang

Characterization of iPSC-Derived Macrophages Towards Development of a High-Throughput Screen to Identify Immunomodulatory Compounds

University of California, Los Angeles (California)

Preceptor: Dr. Mark Henderson

8-004. Sinead Claffey

RNAi Kinome screen to identify modulators of prometastatic gene ASAP1

University of Maryland (Maryland)

Preceptors: Dr. Ken Cheng, Dr. Sean Lin

8-005. Robert Gottschalk

Developing a High-throughput Screen To Identify Compounds with Synergistic or Antagonistic Effects on a Estrogen Receptor PROTAC: Implications for Concomitant Therapeutics

Vanderbilt University (Tennessee)

Preceptor: Dr. Mark Henderson

8-006. Mckenzie Hall

Bioanalysis and Pharmacokinetics of Dimethylsynaptamide, a GPR110 Agonist for the Treatment of Multiple Sclerosis

University of Maryland Baltimore County (Maryland)

Preceptors: Dr. Amy Wang, Dr. Xin Xu

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8-007. Amanda Hampton

The Automation of the Data Analysis of Continuous Transepithelial Electrical Resistance (TEER) Measurements to Monitor Intestinal Barrier Disruption Against Potentially Toxic Compounds

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Xin Xu, Dr. Elias Padilha

8-008. Elena Hausmann

An NMR-Based Fragment Screening Approach to Identify LCAT Modulators

University of Wisconsin-Stevens Point (Wisconsin)

Preceptor: Dr. Christopher LeClair

8-009. Rintaro Kato

Assessing Blood-Brain Barrier Penetration and Neurotoxicity Potential of Natural Product Constituents: Implication for CNS Drug Discovery

CUNY John Jay College of Criminal Justice (New York)

Preceptors: Dr. Pranav Shah, Dr. Xin Xu

8-010. Pedro Massa

Identifying drug targets for Niemann-Pick type C1 disease

William & Mary (Virginia)

Preceptor: Dr. Edward Chiang

8-011. Kendall Mesch

Functional Characterization of Novel hiPSC-Derived Hypothalamic Neurons of The Arcuate Nucleus

University of Colorado Boulder (Colorado)

Preceptors: Dr. Vukasin Jovanovic, Dr. Carlos Tristan

8-012. Jenna Miller

A High Throughput Cell-Based Deubiquitinase Screening Assay

University of Richmond (Virginia)

Preceptor: Dr. Bolormaa Baljinnyam

8-013. Kofi Owusu-Ansah

Antisense Oligonucleotide Mediated Exon Skipping Approach for NGLY1 Disorder

University of Illinois at Chicago (Illinois)

Preceptor: Dr. Catherine Chen

8-014. Kimia Shamsian

Employing a Genome-Wide RNA-Interference (RNAi) Screen to Identify Regulators of the Ewing Sarcoma EWSR1 Gene

University of California, Riverside (California)

Preceptors: Dr. Ken Cheng, Dr. Sean Lin

* Denotes that poster number was updated after the index was completed

NCI - National Cancer Institute (L-Z) (Posters 8-015 – 8-119)

8-015. Sarah Loew

Lurbinectedin Promotes Immune Response Through STING Activation in Small Cell Lung Cancer

Georgetown University (District of Columbia)

Preceptors: Dr. Nitin Roper, Dr. Yoo Sun Kim

8-016. Kaylah Longmore

A Novel Method for Mapping the Interactome Of Essential Proteins

Pennsylvania State University (Pennsylvania)

Preceptor: Dr. Francis O'Reilly

8-017. Jorge Lopez-Nava

Investigation of Transcriptional Networks Modulated by Varied Fusion Oncoprotein Expression in a Human Myoblast Model of Rhabdomyosarcoma

Swarthmore College (Pennsylvania)

Preceptors: Dr. Frederic Barr, Dr. Wenyue Sun

8-018. Michelle Luo

Characterization of Extracellular Vesicles in Cancer

University of North Carolina at Chapel Hill (North Carolina)

Preceptor: Dr. Jennifer Jones

8-019. James Ma

Combination Therapy Using CAR-T and CAR-NK in Solid Tumor Treatment

Washington University in St. Louis (Missouri)

Preceptors: Dr. Raffit Hassan, Dr. Qun Jiang

8-020. Nthabeleng MacDonald

The Functional Characteristics of RRP1B Through Deletions Mapping

Gallaudet University (District of Columbia)

Preceptors: Dr. Wan-Ning "Chloe" Li, Dr. Kent Hunter

8-021. Alina Majid

Examining the Relationship between Patient-Centered Communication and Employment Communication among Cancer Survivors in the United States: A HINTS-SEER Analysis

University of Maryland, College Park (Maryland)

Preceptor: Dr. Janet de Moor

8-022. Sebastian Malespini

Design and Synthesis of a Granzyme A Probe

University of Connecticut (Connecticut)

Preceptor: Dr. Luna Yoo

* Denotes that poster number was updated after the index was completed

8-023. Madhura Managoli

Coping Strategies on Mood-Related Outcomes in Adult Patients with Brain Tumors: A Scoping Review

University of Florida (Florida)

Preceptors: Dr. Terri Armstrong, Ms. Alvina Acquaye-Mallory

8-024. Puneet Mann

Surfaceome Analysis of Sensitive and Drug Resistant Breast Cancer Lines

Pepperdine University (California)

Preceptors: Dr. Senthil Muthuswamy, Dr. Rachel Carter

8-025. Alexandra Marcin

Structural Characterization of Arf GAPs with Soluble Phosphoinositide Analogs

Bard College at Simon's Rock (Massachusetts)

Preceptor: Dr. Paul Randazzo

8-026. Charles Marquardt

In Vitro Stimulation of mTCR Transduced T Cells Against Human Neoantigens Leads To Specific Cell Proliferation, Better Phenotypes, and Warrants Evaluation For Clinical Translation

Arizona State University (Arizona)

Preceptors: Dr. Noam Levin, Dr. Peter Kim

8-027. Alondra Martinez Osorno

Development of Multiplex Panels to Examine Remodeling of the Extracellular Matrix in the Tumor Microenvironment (TME)

Washington & Jefferson College (Pennsylvania)

Preceptor: Dr. Rosandra Kaplan

8-028. Carolyn Maslanka

Characterizing the Role of TMEM205 Suggests A Novel Cellular Detoxification Pathway in Cisplatin Resistance

Rhodes College (Tennessee)

Preceptors: Dr. Di Xia, Dr. Jingyu Zhan

8-029. Tyler Masuda

Identifying novel protein interactions with 5mCpA in neurons

University of Wisconsin-Madison (Wisconsin)

Preceptor: Dr. Lisa Boxer

8-030. Bennett Ann McIver

Evaluating clinical and sociodemographic risk for symptom-related functional interference in the primary brain tumor population

Wake Forest University (North Carolina)

Preceptors: Dr. Terri Armstrong, Dr. Michelle Wright

* Denotes that poster number was updated after the index was completed

8-031. Rilyn McKallip

Atomic-resolution liquid-cell TEM: Unsupervised atomic model building in nanocrystal 3D density maps through density peak detection.

University of Richmond (Virginia)

Preceptor: Dr. Hans Elmlund

8-032. Ryan McLellan

Protein folding and reactivation: Investigating the interaction between Hsp90 and CbpA, a J-domain protein co-chaperone of Hsp70

University of Virginia (Virginia)

Preceptor: Dr. Sue Wickner

8-033. Tsion Mekonnen

Overcome the defects of exhausted CAR T-cells via Engineered Hematopoietic Stem and Progenitor Cells

Towson University (Maryland)

Preceptors: Dr. Naomi Taylor, Dr. Marie Pouzolles

8-034. Paige Milhon

Subcellular localization of driver mutant proteins in Angioimmunoblastic T-cell Lymphoma cells

Kenyon College (Ohio)

Preceptors: Dr. Samuel Ng, Dr. Kosuke Toyoda

8-035. Jacob Minin

Exploiting cancer stem cells' super-sensitivity to microenvironmental quality to block metastatic progression

University of Illinois at Urbana-Champaign (Illinois)

Preceptors: Dr. Lalage Wakefield, Dr. Binwu Tang

8-036. Mona Miraftab

The Sherlock Framework for Pathological Classification of Lung Cancer in Never-Smokers

University of California Los Angeles (California)

Preceptors: Dr. Maria Teresa Landi, Dr. Phuc Hoang

8-037. Alexandra Misciagna

Investigating the Role of Let-7 Binding Within the 5' Untranslated Region of IGF2

University of Maryland, Baltimore County (Maryland)

Preceptors: Dr. Shuo Gu, Dr. Chunmei Shi

8-038. Rebecca Moffat

Spatial Localization of Cancer Stem Cell Phenotypes, CD8+ Cytotoxic T cells, Vasculature, and Hypoxia in 4T1 Tumors: A Mouse Model of Triple-Negative Breast Cancer

Southern Utah University (Utah)

Preceptor: Dr. Stephen Lockett

* Denotes that poster number was updated after the index was completed

- 8-039. Thomas Mossington
Development, Implementation, and Benchmarking of Metagenomic Assembled Genome Quality Control within the JAMS Framework.
Georgetown University (District of Columbia)
Preceptors: Dr. Giorgio Trinchieri, Dr. John McCulloch
- 8-040. Divya Nambiar
Isolation and Characterization of an Anti-CD147 Nanobody from a Llama-Derived Phage Display Library
University of Illinois at Urbana Champaign (Illinois)
Preceptor: Dr. Freddy Escorcía
- 8-041. Ariana Nelson
Alteration of biochemical and metabolic profiles are a potential mechanism of NAMPT inhibitor OT-82 resistance in pediatric RMS
Grove City College (Pennsylvania)
Preceptor: Dr. Christine Heske
- 8-042. Anna Newen
Distinct B Cell Apoptosis-Dependent Checkpoints Limit Autoimmune Disease
Rutgers University-New Brunswick (New Jersey)
Preceptor: Dr. Christian Mayer
- 8-043. Kilyna Nguyen
Development of a Human CD22 Transgenic Mouse Model for Preclinical Studies
Virginia Commonwealth University (Virginia)
Preceptor: Dr. Kazusa Ishii
- 8-044. Ngoc Thuy Nguyen
Type I interferon and IL27 modulate regulatory T cells in a Lupus-prone mouse model
Pomona College (California)
Preceptors: Dr. Julio Valencia, Dr. Howard Young
- 8-045. Bilal Niazi
Defining WNT10A's Role in Regulating Stem Cell Proliferation and Differentiation in the Developing Mucocilliary Epidermis
College of William and Mary (Virginia)
Preceptor: Dr. Jaeho Yoon
- 8-046. Michael Nirula
Spatial Transcriptomics and Liver Reprogramming in Small Cell Lung Cancer.
University of California, Los Angeles (California)
Preceptor: Dr. Anish Thomas
- 8-047. Hunter Noel
Mutation of the SP1 sequence of HIV Gag Protein Prevents Normal Virion Assembly
University of Northern Colorado (Colorado)
Preceptors: Dr. Alan Rein, Dr. Siddhartha Datta
- * Denotes that poster number was updated after the index was completed

8-048. Favour Nwagugo

Exploring Immune Infiltration in Triple Negative Breast Cancer: Spatial Analysis of 3D Tumor Microenvironment for Therapeutic Insights

University of Maryland Baltimore County (Maryland)

Preceptors: Dr. David Scheiblin, Dr. Stephen Lockett

8-049. Tara O'Shea

A CD3xMSLN Bispecific Antibody Induces T Cell-Mediated Tumor Killing and is Not Blocked by Shed Mesothelin

Vanderbilt University (Tennessee)

Preceptor: Dr. Ira Pastan

8-050. Krishna Patel

Building a cohort of Pancreatic Acinar Cell Carcinoma (PACC) patients

Clemson University (South Carolina)

Preceptor: Dr. Christine Alewine

8-051. Lisette Pham

ARID1A Expression is Required for Plasma Cell Development

Haverford College (Pennsylvania)

Preceptors: Dr. Jagan Muppidi, Dr. Ryan Young

8-052. Dhruv Pillai

Investigating Disparities in Prostate Cancer Treatment and Genomic Data Availability Across Major Social Determinants of Health: A Cross-Sectional Study in the All of Us Research Program

Georgetown University (District of Columbia)

Preceptors: Dr. William Figg, Dr. Cindy Chau

8-053. Gopika Pillai

Radiation-induced Functional Memory Deficits Are Modulated by Sirt2-mediated Dendritic Plasticity in Hippocampal Neurons

University of Pittsburgh (Pennsylvania)

Preceptors: Dr. DeeDee Smart, Dr. Alexandra Lin

8-054. Eleanor Pope

Genome-wide CRISPR screenings identify essential genes for CAR-T immunotherapy against neuroblastoma

Northwestern University (Illinois)

Preceptors: Dr. Meijie Tian, Dr. Javed Khan

8-055. Caroline Pruitt

Carcinogenic industrial air pollution and breast cancer risk in the NIH-AARP Diet and Health Study

University of North Carolina at Chapel Hill (North Carolina)

Preceptors: Dr. Jessica Madrigal, Dr. Rena Jones

8-056. Aidan Pursley

Isolating T Cell Receptors Recognizing Mutant Nucleophosmin1 for Acute Myeloid Leukemia Immunotherapy

University of Virginia (Virginia)

Preceptor: Dr. Vid Leko

* Denotes that poster number was updated after the index was completed

- 8-057. Alex Quan
Engineering T Cells Targeting GPC2 for the Treatment of Neuroblastoma
University of California, Los Angeles (California)
Preceptor: Dr. Mitchell Ho
- 8-058. Ashley Rainey
Single Cell Analysis of Archived Neuroendocrine Liver Metastases
Spelman College (Georgia)
Preceptor: Dr. Jonathan Hernandez
- 8-059. Shreya Rajhans
Single-nuclei RNA and ATAC Sequencing Uncovers Subtypes In Pancreatic Neuroendocrine Tumors
University of Texas at Austin (Texas)
Preceptor: Dr. Efsun Arda
- 8-060. Ruwaida Rajna
Role of Tumor-associated Macrophages in Cancer Immunity
Georgia State University (Georgia)
Preceptor: Dr. Zheng-Gang Liu
- 8-061. Nicole Ramos
Impact of coreceptors on kinase usage of NKT cells
University of California, San Diego (California)
Preceptors: Dr. Miho Shinzawa, Dr. Alfred Singer
- 8-062. Neha Rana
CRISPR-Cas9 Mediated Editing of Splicing Factor U2AF in Human Primary Cells
University of Virginia (Virginia)
Preceptors: Dr. Daniel Larson, Dr. Murali Palangat
- 8-063. Juliette Rault-Wang
Phenotypic and functional analysis of clinical tumor infiltrating lymphocyte (TIL) infusion products given to patients with metastatic epithelial cancer
Scripps College (California)
Preceptors: Dr. Frank Lowery, Dr. Nivedita Ratnam
- 8-064. Jansen Redler
Validating the synergistic interaction between NAMPT inhibitors and 5-FU in RMS cell lines
Wake Forest Medical School (North Carolina)
Preceptors: Dr. Christine Heske, Mr. Choh Yeung
- 8-065. Deanna Riley
CXCR3 promotes recruitment of T cells to mediate immunopathology during mucosal candidiasis in AIRE-deficiency
University of Tennessee, Knoxville (Tennessee)
Preceptors: Dr. Stefania Pittaluga, Dr. Michail Lionakis

* Denotes that poster number was updated after the index was completed

8-066. Kristina Rinaldi

Characterization of SWI/SNF Dependency in Multiple Myeloma

Johns Hopkins University (Maryland)

Preceptors: Dr. Ryan Young, Dr. Arnold Bolomsky

8-067. Howard Rong

Core promoter and activator DNA binding site mutations hinder the formation of a transcriptionally active biomolecular condensate

University of Maryland, College Park (Maryland)

Preceptors: Dr. Dave Levens, Dr. Brian Lewis

8-068. Maxine Rubin

Proteolysis-Targeting Chimeras: A Novel Approach for the Treatment of 3q Amplicon Positive Squamous Cell Carcinomas

University of Maryland College Park (Maryland)

Preceptors: Dr. John Brognard, Dr. Meghri Katerji

8-069. Daniel Ryan

Determining whether deltaN p63 expression promotes more aggressive and chemoresistant pancreatic cancer

Duke University (North Carolina)

Preceptor: Dr. Christine Alewine

8-070. Sashank Sabbineni

Development of a high-throughput zebrafish model of blood-brain barrier disruption

North Carolina State University (North Carolina)

Preceptor: Dr. Michael Gottesman

8-071. Jeffrey Sagun

Clinical assessment of neurological disease severity in xeroderma pigmentosum patients with XPA germline mutations reveal associations between genotype and phenotype

Trinity College (Connecticut)

Preceptors: Dr. Kenneth Kraemer, Dr. Sikandar Khan

8-072. Sahil Sahni

Melanoma renders resistant to Immune Checkpoint Blockade via deactivation of ligand-receptor interactions enhancing lymphocyte infiltration

McGill University (Canada)

Preceptors: Dr. Kun Wang, Dr. Eytan Ruppin

8-073. Carter Sellner

Abrogation of Myeloid-Specific TGF- β Signaling: Immunological Model to Identify Mediators of Tumor Dormancy

University of Minnesota Twin Cities (Minnesota)

Preceptor: Dr. Li Yang

* Denotes that poster number was updated after the index was completed

8-074. Swati Sharma

Developing combinatorial CRISPR activation screening platform to modulate target genes in mammalian cells

Shiv Nadar University (India)

Preceptor: Dr. Michael Aregger

8-075. Julia Sheehan-Klenk

Generation and characterization of HepG2- and Hep3B-CD147 knockout liver cancer cell lines

Grinnell College (Iowa)

Preceptor: Dr. Freddy Escorcía

8-076. Meredith Showler

Lambda Phage Displaying EGFRvIII Antigen for Glioblastoma Immunotherapy

Wheaton College (Illinois)

Preceptor: Dr. Sankar Adhya

8-077. Aamna Siddiqui

Investigating Multiciliogenesis mechanism in primary brain ependymal cells

Virginia Commonwealth University (Virginia)

Preceptor: Dr. Christopher Westlake

8-078. Elelta Sisay

Optimizing HiChIP workflow to assess chromatin interactions of lung cancer risk-associated variants upon smoking-related BaP exposure

Pomona College (California)

Preceptor: Dr. Jiyeon Choi

8-079. Alisa Sivapiromrat

Clinical and Genomic Characteristics of Primary Thymic Adenocarcinomas – A Rare Variant of a Rare Cancer

Emory University (Georgia)

Preceptors: Dr. Arun Rajan, Dr. Meredith McAdams

8-080. Kaitlynn Slattery

Serum IL-10 is Associated with Neurologic Symptoms and Interference in Primary Brain Tumor Patients

George Washington University (District of Columbia)

Preceptors: Dr. Terri Armstrong, Dr. Vivian Guedes

8-081. Marlaine Soliman

Spp1+ Macrophages Impair Tumor Reactive CD8 T Cells in Liver Cancer

University of California, Irvine (California)

Preceptor: Dr. Tim Greten

8-082. Bhavya Soni

Characterizing the functional role of histone acetyltransferases P300 and CREBBP during Zygotic Genome Activation

Nova Southeastern University (Florida)

Preceptors: Dr. Sergio Ruiz Macias, Dr. Maria Vega Sendino

* Denotes that poster number was updated after the index was completed

8-083. Karrie Spain

Mapping functional microRNA targets in vivo by RNA editing

Mercer University (Georgia)

Preceptors: Dr. Shuo Gu, Dr. Acong Yang

8-084. Hannah Stack

PTK7- and GPC2-CAR T Cells Effectively Target Neuroblastoma Subtype Heterogeneity

Colgate University (New York)

Preceptors: Dr. Carol Thiele, Dr. Ming Sun

8-085. Hannah Stepp

Optimization of an Ex Vivo Perfusion Machine for Tumor-bearing Organs

Vanderbilt University (North Carolina)

Preceptor: Dr. Jonathan Hernandez

8-086. Ian Stukes

Developing Models of Enfortumab Vedotin Antibody-Drug Conjugate Resistance in Urothelial Carcinoma

University of Wisconsin-Madison (Wisconsin)

Preceptors: Dr. Salah Boudjadi, Dr. Andrea Apolo

8-087. Noelle Tesi

Exploring the Oncogenic Role of ACK1/TNK2 in Cancers with the 3q Amplicon

University of Maryland- College Park (Maryland)

Preceptors: Dr. John Brognard, Dr. Sweta Dash

8-088. Gudrun Thorkelsdottir

Deep Multi-Task Learning to Assess Spatial Gene Expression Predictability Based on Tissue Morphology

University of Maryland, College Park (Maryland)

Preceptor: Dr. Peng Jiang

8-089. Haley Tran

Mechanism of Sp5 and Sp8 Transcription Factors in the Regulation of Wnt Target Gene Expression

Princeton University (New Jersey)

Preceptor: Dr. Terry Yamaguchi

8-090. Emma Treco

The Effects of Novel Cereblon-E3 Ligase Modulators on Primary Effusion Lymphoma

University of Iowa (Iowa)

Preceptors: Dr. Robert Yarchoan, Dr. Prabha Shrestha

8-091. Kaitlyn Tremble

Cohesin complex composition & function in neuroblastoma

Baylor University (Texas)

Preceptor: Dr. Carol Thiele

* Denotes that poster number was updated after the index was completed

- 8-092. Tri Truong
Understanding tumor heterogeneity and cellular plasticity in a PDX derived prostate cancer metastasis model
University of Texas at Austin (Texas)
Preceptors: Dr. Kathleen Kelly, Dr. Ivy Yin
- 8-093. Olivia Tuckey
Treatment of acute myeloid leukemia with DNA Methyltransferase (DNMT1) inhibitor and immune checkpoint inhibitor leads to improved survival in a murine model
University of South Florida (Florida)
Preceptors: Dr. Peter Aplan, Dr. Yang Jo Chung
- 8-094. Joe Twohig
A novel mCRPC PDX model with distinct genomic and pathological characteristics
Northwestern University (Illinois)
Preceptors: Dr. Adam Sowalsky, Dr. Ivy Yin
- 8-095. Sophia Ty
Detection and Classification of Small Cell Lung Cancer Metastasis on Computed Tomography
University of Texas at Austin (Texas)
Preceptors: Dr. Baris Turkbey, Dr. Stephanie Harmon
- 8-096. Caroline Tyndall
Alterations to Chromatin Architecture in Treatment Resistant Prostate Cancer
University of Virginia (Virginia)
Preceptor: Dr. David Takeda
- 8-097. Jonah Unthank
Regulation of Higher Order Actin Structures by ASAP1
Arizona State University (Arizona)
Preceptor: Dr. Paul Randazzo
- 8-098. Rahul Vadakath
Ga13 Inhibits Myc Expression and mTORC1 Activation in Germinal Centers
University of Illinois at Chicago (Illinois)
Preceptors: Dr. Jagan Muppidi, Dr. Hang Nguyen
- 8-099. Charan Vemuri
Probing Topoisomerase Binding and Activity During Mitotic Chromosome Condensation
University of Virginia (Virginia)
Preceptors: Dr. Chongyi Chen, Dr. Shuai Li
- 8-100. Giana Vitale
Epithelial-Mesenchymal Transition is Directed by Hypoxic Gradients in an Engineered Breast Cancer Tumor Microenvironment
University of Miami (Florida)
Preceptors: Dr. William Heinz, Dr. Stephen Lockett

* Denotes that poster number was updated after the index was completed

8-101. Timothy West

Exploration of Individual Leukocyte Antigen Encoding via Machine Learning

Georgia Institute of Technology (Georgia)

Preceptor: Dr. Gregoire Altan-Bonnet

8-102. Karley White

ClpP Agonist TR-107 and MCL1 Inhibitor Synergistically Kill Breast Cancer Cells

Oklahoma State University (Oklahoma)

Preceptors: Dr. Stan Lipkowitz, Dr. Yoshimi Greer

8-103. Kari Wilson

Preclinical Evaluation of a Novel CAR T Immunotherapy Targeting HERV-K in Glioblastoma Multiforme

Eastern Virginia Medical School (Virginia)

Preceptors: Dr. Naomi Taylor, Dr. Saliha Majdoul

8-104. Matthew Witterholt

Effect of aging on people living with HIV and cancer

Wake Forest University (North Carolina)

Preceptors: Dr. Ramya Ramaswami, Dr. Kathryn Lurain

8-105. Zalman Wong

Therapeutic Evaluation of Topoisomerase Inhibition in Meningioma In Vitro and In Vivo

University of Maryland, College Park (Maryland)

Preceptors: Dr. Jinkyu Jung, Dr. Byram Ozer

8-106. Emily Xu

Identification of Small Molecule Binders of Meak-7 for Use in Cancer Therapies

University of Michigan (Maryland)

Preceptors: Dr. Beverly Mock, Dr. Joe Nguyen

8-107. Rachel Yang

Unveiling Novel Therapeutic Targets and Insights into Nuclear Expulsion (NE)

University of Illinois at Urbana Champaign (Illinois)

Preceptor: Dr. Li Yang

8-108. Srujana Yellapragada

The Influence of Cancer Associated Fibroblasts on the Increased Growth of Pancreatic Neuroendocrine Tumors

Florida International University (Florida)

Preceptor: Dr. Samira Sadowski

8-109. Joshua Yon

Partitioning cutaneous melanoma heritability using UV-dependent multi-omic melanocyte cell states

University of Rochester (New York)

Preceptor: Dr. Kevin Brown

* Denotes that poster number was updated after the index was completed

8-110. Amy Yu

Investigating downstream effects of nicotinamide phosphoribosyltransferase (NAMPT) inhibition in neuroblastoma cells

Hunter College (New York)

Preceptors: Dr. Christine Heske, Dr. Sophia Varriano

8-111. Madeline Yuen

Investigating The Role Of RNA Post-transcriptional Regulation In Cancer Immune Evasion

Vanderbilt University (Tennessee)

Preceptor: Dr. Pedro Batista

8-112. Rebecca Zacuto

Social Media Analysis: Using X (formerly Twitter) to Reach and Engage Scientists and the Community on Brain and Spine Tumors, 2022 to 2024

Tulane University (Louisiana)

Preceptors: Dr. Terri Armstrong, Brittany Cordeiro

8-113. Danny Zelmanovich

The Generation and Characterization of CRISPR-modified Cell Lines for the Selective Analysis of RNA-binding Proteins

Colgate University (New York)

Preceptor: Dr. Natasha Caplen

8-114. Flora Zhang

Epigenetic Regulation of Regulatory T Cell Development in the Thymus

Colgate University (New York)

Preceptors: Dr. Xuguang Tai, Dr. Alfred Singer

8-115. David Zhao

Investigation of a Cysteine-Targeting Dual-Warhead Covalent Ligand for Modification of Succinic Semialdehyde Dehydrogenase

University of Maryland College Park (Maryland)

Preceptor: Dr. Euna Yoo

8-116. Dia Zheng

Investigating the role of the transcription factor Thpok in CD4 T cell development

Lehigh University (Pennsylvania)

Preceptor: Dr. Rémy Bosselut

8-117. Keri Zhou

Comparison of T-Cell Activation in Response to IL2, IL2+IL15, or IL7+IL15 Cytokine Stimulation

University of Maryland, College Park (Maryland)

Preceptors: Dr. Jason Yovandich, Dr. Tanusree Sen

* Denotes that poster number was updated after the index was completed

8-118. Xiao Bin Zhu
TM4SF1 maintains cancer stemness in cholangiocarcinoma
Emory University (Georgia)
Preceptor: Dr. Changqing Xie

8-119. Sophie Zhuang
The molecular mechanisms of small cell lung cancer (SCLC) plasticity and heterogeneity
Kalamazoo College (Michigan)
Preceptors: Dr. Anish Thomas, Dr. Ajit Sharma

NIBIB - National Institute of Biomedical Imaging and Bioengineering (Posters 8-120 – 8-133)

8-120. Amanda Bluem
Emergent Mechanical Properties of Growing Epithelial Monolayers on Soft 2D Confined Surfaces
University of Michigan (Michigan)
Preceptor: Dr. Alexander Cartagena-Rivera

8-121. Madison Daminato
Development of Microfluidic Models for Sickle Cell Disease Induced Vascular Remodeling Analysis of the Carotid Artery Bifurcation
University of Michigan (Michigan)
Preceptors: Dr. Nicole Morgan, Dr. Manu Platt

8-122. Daphna Fertil
Response of Lymphocytes to Biomaterial Treated Skeletal Muscle Injury
Lafayette College (Pennsylvania)
Preceptor: Dr. Kaitlyn Sadtler

8-123. Julia Frank
ScRNA-seq Data Informs Research on Sickle Cell Disease Arteriopathy
University of Pittsburgh (Pennsylvania)
Preceptors: Dr. Manu Platt, Dr. Hannah Song-Lee

8-124. Joshua Kim
*Trained Image Analysis Techniques for Characterizing Cell Phenotype in Electron Microscopy Images of Mouse *Thrombi**
University of North Carolina at Chapel Hill (North Carolina)
Preceptors: Dr. Maria Aronova, Dr. Richard Leapman

8-125. Arushi Kotru
Development of a Microfluidic Device for White Blood Cell Isolation from Whole Blood
University of Alabama at Birmingham (Alabama)
Preceptors: Dr. Nicole Morgan, Dr. Manu Platt

* Denotes that poster number was updated after the index was completed

- 8-126. Michelle Kwarteng
Development of a 3D model system to characterize the effect of oxygenation on multidrug resistance
Howard University (District of Columbia)
Preceptors: Dr. Nicole Morgan, Dr. Michael Gottesman
- 8-127. Sarah Porche
Imaging Mass Spectrometry: Harnessing MALDI-TOF MS for Spatial Molecular Analysis of Tissue Samples
Johns Hopkins University (Maryland)
Preceptor: Dr. Heather Kalish
- 8-128. Anagha Rama Varma
Bacterial Extracellular Vesicles: An Investigation of Their Stability and Their Potential for Molecular Mimicry
University of Maryland, College Park (Maryland)
Preceptor: Dr. Parinaz Fathi
- 8-129. Zillay Saleem
Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES): A Robust Technique for Elemental Quantification
University of Maryland, Baltimore County (Maryland)
Preceptor: Dr. Heather Kalish
- 8-130. Sanjana Srinivasan
Expression of SARS-CoV-2 Nucleocapsid Protein Phosphomimetic 12D Mutant
University of Massachusetts- Amherst (Massachusetts)
Preceptor: Dr. Peter Schuck
- 8-131. Han Tran
Real-Time Measurement of Intracellular Oxygen Using Inducible FLIM-FRET Probes: Myoglobin-mCherry and Myoglobin-mScarlet
Virginia Commonwealth University (Virginia)
Preceptors: Dr. Nicole Morgan, Dr. Jay Knutson
- 8-132. Zijie (Jed) Yang
Semi-Automated Texture-Based Segmentation in 3D Electron Microscope Images
Duke University (North Carolina)
Preceptors: Dr. Richard Leapman, Dr. Maria Aronova
- 8-133. Samuel Zhang
Computational Fluid Dynamics of Stenotic and Aneurysmal Carotid Arteries in Mice with Sickle Cell Disease
Purdue University (Indiana)
Preceptor: Dr. Manu Platt

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NHLBI - National Heart, Lung, and Blood Institute (Poster 8-134)

8-134. Aneesha Baral

Images in Vascular Medicine: High-resolution CT imaging of arterial calcification in the hands and legs of patients with CD73 deficiency

University of Texas at Austin (Texas)

Preceptor: Dr. Han Wen

NIDA - National Institute on Drug Abuse (Poster 8-135)

8-135. Justine Hill

Corticostriatal reconfiguration under methylphenidate is tied to drug-induced changes in brain network temporal dynamics

University of Wisconsin - Madison (Wisconsin)

Preceptor: Dr. Amy Janes

NIMH - National Institute of Mental Health (Poster 8-136)

8-136. Anne Claire Tangen

Investigation of the relationship between pupil diameter and learning from symbolic reinforcement

Colorado State University (Colorado)

Preceptors: Dr. Bruno Averbeck, Dr. Diana Burk

NCATS - National Center for Advancing Translational Sciences (Posters 8-137 – 8-138)

8-137. Kathleen McDaniel*

Generation and Characterization of Alagille Syndrome patient-derived iPSCs and their isogenic CRISPR-corrected lines.

Kansas State University (Kansas)

Preceptors: Dr. Catherine Chen, Dr. Zeenat Shyr

8-138. Eli Vanlal*

Drug Repurposing for Glioblastoma Multiforme: Experimental Evaluation for AI Candidates

University of the District of Columbia (District of Columbia)

Preceptors: Dr. Catherine Chen, Dr. Miao Xu

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