

NATIONAL GRADUATE STUDENT RESEARCH CONFERENCE

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OCTOBER 6-8, 2013

NATIONAL INSTITUTES OF HEALTH
BETHESDA, MARYLAND



National Institutes of Health

8TH NIH NATIONAL GRADUATE STUDENT RESEARCH CONFERENCE

OCTOBER 6-8, 2013

NATIONAL INSTITUTES OF HEALTH | BETHESDA, MARYLAND

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AGENDA: SUNDAY, OCT 6

Hyatt Regency Bethesda

- 3:00 – 7:00 PM** **Check In and Registration**
Cabinet/Judiciary Foyer
- 5:15 – 5:30 PM** **Welcome and Opening Remarks**
Jackie A. Lavigne, PhD, MPH
Co-Chair, NGSRC Organizing Committee
Cabinet/Judiciary Rooms
- 5:30 – 6:45 PM** **NIH 101**
What is the NIH, how is it organized, and how does it work?
Sharon L. Milgram, PhD
Director, NIH Office of Intramural Training & Education
Cabinet/Judiciary Rooms
- 7:00 – 9:00 PM** **DineArounds***

AGENDA: MONDAY, OCT 7

NIH Campus

- 8:00 – 9:00 AM** **Information Session with the NIH Institute/Center Training Directors**
Building 50, Room 1227
- 9:15 – 11:15 AM** **NIH Research Festival Plenary Session**
Building 10, Masur Auditorium
- 11:30 AM – 1:00 PM** **NGSRC Poster Session**
Building 10, FAES Academic Center, Terrace
- 1:00 – 2:00 PM** **The David E. Barmes Global Health Lecture**
Building 10, Masur Auditorium
- 2:00 – 4:00 PM** **NIH Research Festival Concurrent Scientific Sessions**
Building 10, FAES Academic Center, Classrooms
- 4:15 – 5:45 PM** **Resources for Trainees and Trainee Panel**
Natcher Conference Center (Building 45), Conference Room E1/E2
- Lori M. Conlan, PhD, *Moderator*
Director, Offices of Postdoctoral Services and Career Services,
Office of Intramural Training & Education
- Panelists:*
- Suman Das, PhD
Assistant Professor, J. Craig Venter Institute
- Audray Harris, PhD
Chief, Structural Informatics Unit, Laboratory of Infectious Diseases, NIAID, NIH
- Jennifer Schrack, PhD
Assistant Professor of Epidemiology, Johns Hopkins Bloomberg School of Public Health
- Edward Wright, PhD
Program Manager, The Henry M. Jackson Foundation for the Advancement of Military
Medicine, Uniformed Services University of the Health Sciences
- 6:00 PM** **FelCom Networking Event****
Dinner on Your Own

AGENDA: TUESDAY, OCT 8

NIH Campus

Activities are optional; interviews can be scheduled during any of these time slots

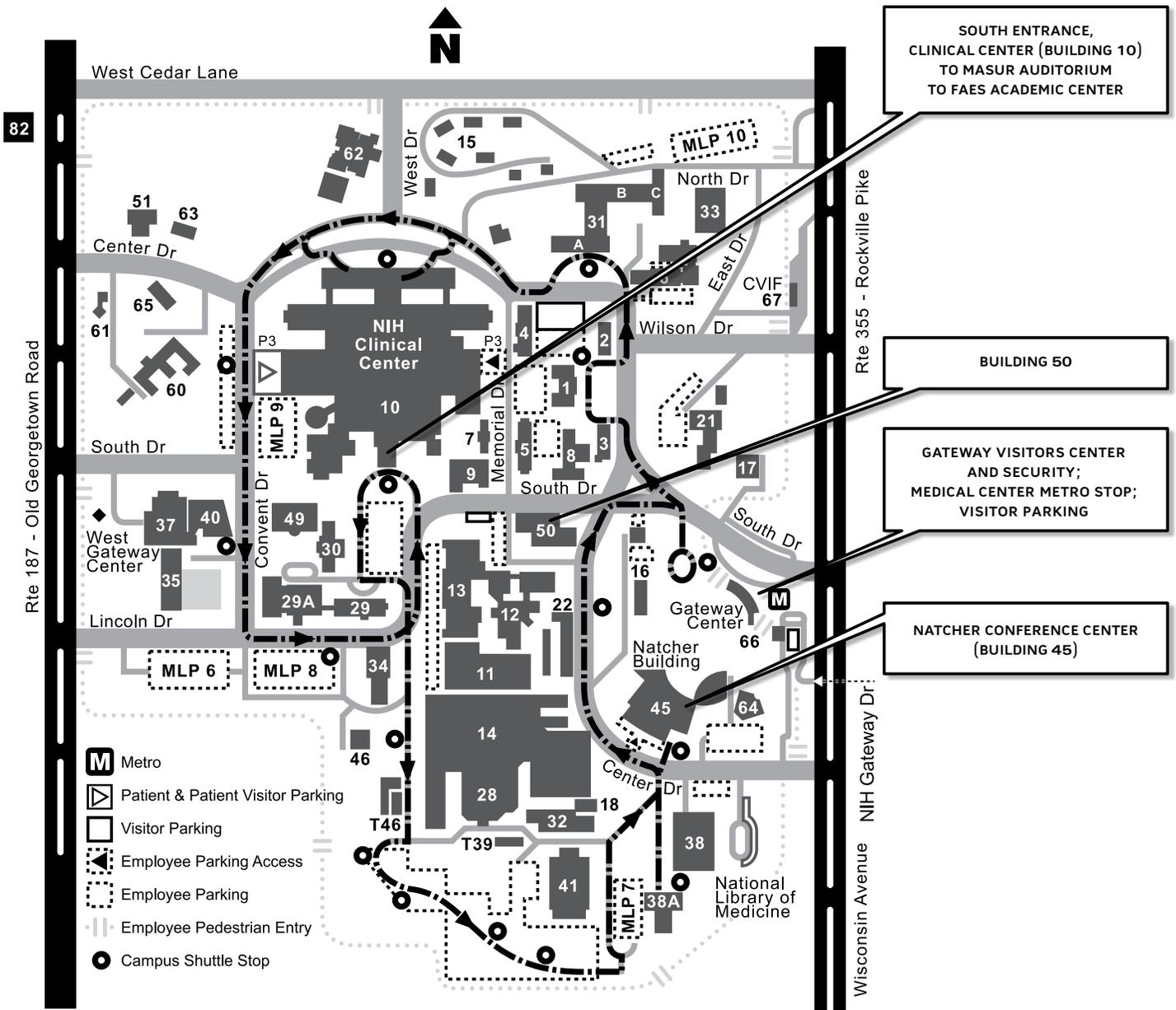
- 8:00 – 9:30 AM Career Workshop I: Planning for Career Satisfaction and Success**
Sharon L. Milgram, PhD
Director, NIH Office of Intramural Training & Education
Natcher Conference Center (Building 45), Conference Room E1/E2
- 10:30 – 11:30 AM Career Workshop II: Grant Writing**
Jonathan S. Wiest, PhD
Director, Center for Cancer Training, National Cancer Institute, NIH
Natcher Conference Center (Building 45), Conference Room E1/E2
- Lunch on Your Own
- 1:00 – 2:00 PM Career Workshop III: What Next? Succeeding in Your Postdoc Job Hunt**
Jackie A. Lavigne, PhD, MPH
Co-Chair, NGSRC Organizing Committee
Natcher Conference Center (Building 45), Conference Room E1/E2
- ALL DAY Attend NIH Research Festival; Meetings with NIH Scientists**

Attendees will be responsible for meals and/or light refreshments on their own, at their own cost. The government and/or government contractor is not involved in facilitating the provision of food and/or light refreshments.

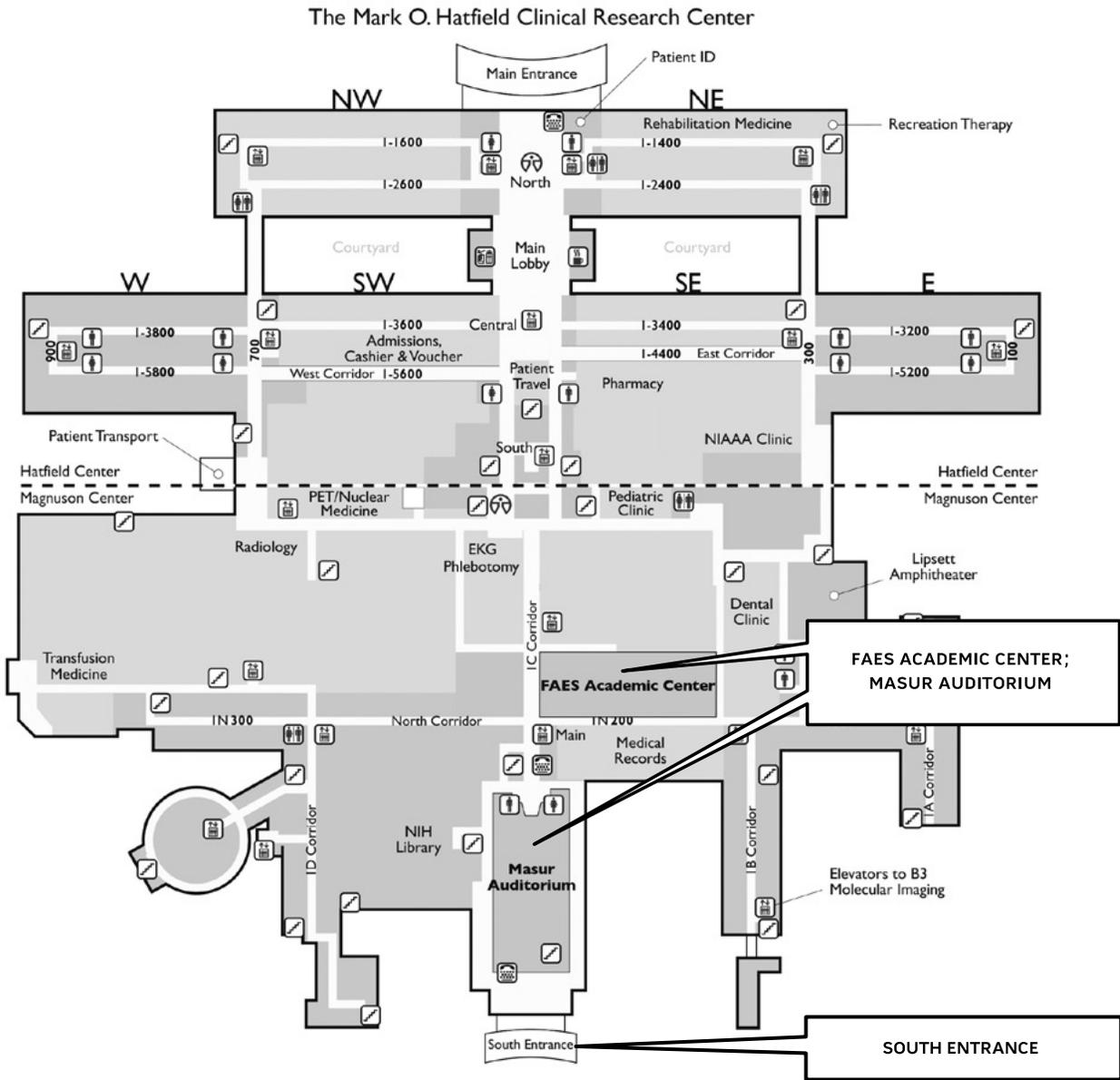
*Reservations will be made for groups of 10 at a selection of Bethesda restaurants. Conference participants can sign up at registration to “dine” at the restaurant that interests them most. Each group will be “hosted” by a current NIH postdoc. Participants will cover the cost of their own dinners.

**NIH Fellows Committee (Felcom) Networking Event organized by FelCom Social Committee

NIH CAMPUS MAP

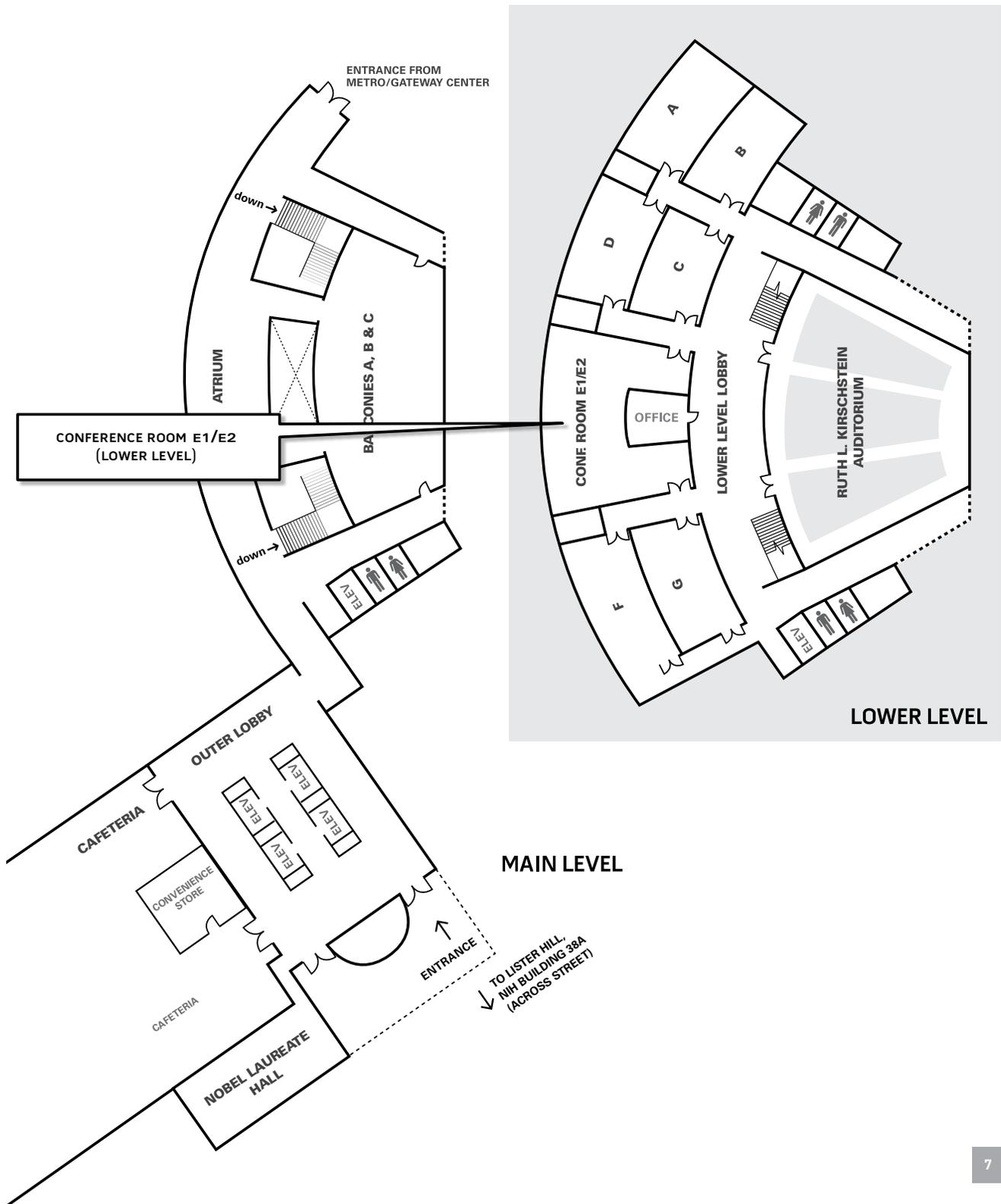


NIH CLINICAL CENTER (BUILDING 10) MAP



The Warren Grant Magnuson Clinical Center

NATCHER CONFERENCE CENTER MAP



NIH INSTITUTES AND CENTERS

OD	The Office of the Director
CIT	Center for Information Technology
CSR	<i>Center for Scientific Review</i>
FIC	<i>John E. Fogarty International Center for Advanced Study in the Health Sciences</i>
NCATS	National Center for Advancing Translational Sciences
NCCAM	National Center for Complementary and Alternative Medicine
NCI	National Cancer Institute
NEI	National Eye Institute
NHLBI	National Heart, Lung, and Blood Institute
NHGRI	National Human Genome Research Institute
NIA	National Institute on Aging
NIAAA	National Institute on Alcohol Abuse and Alcoholism
NIAID	National Institute of Allergy and Infectious Diseases
NIAMS	National Institute of Arthritis and Musculoskeletal and Skin Diseases
NIBIB	National Institute of Biomedical Imaging and Bioengineering
NICHD	<i>Eunice Kennedy Shriver</i> National Institute of Child Health and Human Development
NIDCD	National Institute on Deafness and Other Communication Disorders
NIDCR	National Institute of Dental and Craniofacial Research
NIDDK	National Institute of Diabetes and Digestive and Kidney Diseases
NIDA	National Institute on Drug Abuse
NIEHS	National Institute of Environmental Health Sciences
NIGMS	<i>National Institute of General Medical Sciences</i>
NIMH	National Institute of Mental Health
NIMHD	National Institute on Minority Health and Health Disparities
NINDS	National Institute of Neurological Disorders and Stroke
NINR	National Institute of Nursing Research
NLM	National Library of Medicine
CC	NIH Clinical Center

NOTE: Institutes shown completely in italics do not participate in the Intramural Research Program.

POSTER SESSION OVERVIEW

Poster Session Topics:

Biomedical Engineering/Imaging

Biophysics

Cancer

Epidemiology/Biostatistics

Genetics/Genomics

HIV/AIDS

Immunology

Microbiology and Viruses

MMP/ECM/Cytoskeleton

Modeling/Computational Biology/Informatics

Neurobiology – Cognition and Behavior

Neurobiology – Electrophysiology

Neurobiology – Receptors, Channels, Transporters

Neurological Diseases

Physiology

Protein Complexes

Protein Structure/Function

Public Health/Global Health

Regenerative Medicine/Tissue Engineering

Regulation of Gene Expression

Signaling

Social/Behavioral Science

Stem Cells

POSTER SESSION

Biomedical Engineering/Imaging

- 1.1 **Ajlan Al Zaki**, Predicting Therapeutic Response to External Beam Radiation Therapy Using a Novel Nanoplatfom
- 1.2 **Jamie Maciaszek**, Single Cell Force Nanoscopy as a Prognostic Tool in Sickle Cell Disease
- 1.3 **Yen-Hsiang Wang**, Towards a Complete Set of Genetic Arithmetic Operators: Implementing a Genetic Operational Amplifier Using RNA

Biophysics

- 1.4 **Emily Danoff**, Elucidating the Folding Pathway of Outer Membrane Protein A
- 1.5 **Joseph Schonhoft**, How to Find U: Defining the Mechanism of Facilitated Diffusion for Uracil DNA Glycosylase

Cancer

- 1.6 **Amanda Balboni**, Bone Morphogenic Protein Signaling Governs Stem Cell Plasticity in Mammary Epithelial Cells
- 1.7 **Waipan Chan**, Molecular Mechanisms of Mutant CARD11 Signaling to NF-kappaB in Human Diffuse Large B Cell Lymphoma
- 1.8 **Dianne Dapito**, Activated Hepatic Stellate Cells Are a Link between Hepatic Fibrosis and Hepatocellular Carcinoma
- 1.9 **Turgut Dogruluk**, A High-throughput Functional Genomics Pipeline to Prioritize Exomic Aberrations in Cancer
- 1.10 **Kamonwan Fish**, Empowering MYC: A Cooperative Role of EBV LMP2A and MYC in Promoting Cell Cycle Progression
- 1.11 **Alexandra Greenberg**, Differences in Clinical Characteristics by Cytogenetic Subtype in Multiple Myeloma
- 1.12 **Monica Mann**, Elucidating and Targeting the Epigenetic Pathways of the Oncogene PELP1
- 1.13 **Jillian Pope**, Claudin-1 Overexpression Increases Susceptibility to Colon Tumorigenesis in APCmin Mice
- 1.14 **Ashley Swanson**, Translesion Synthesis of Ribonucleotides in DNA in Vitro
- 1.15 **Hayley Wall**, TTT-3002 Overcomes Many Limitations of Current FLT3-Targeted Therapeutics in Acute Myeloid Leukemia
- 1.16 **Kelli Wilson**, A Quantitative High Throughput Drug Screen based on a Glioma Oncosphere Panel

Epidemiology/Biostatistics

- 1.17 **Reinou Groen**, Untreated Surgical Conditions in Sierra Leone: a Cluster Randomised, Cross-sectional, Countrywide Survey

Genetics/Genomics

- 1.18 **John Eicher**, Genetic Overlap of Two Prevalent Communication Disorders: Reading Disability and Language Impairment
- 1.19 **James Novak**, Elucidating the Physiological Role of Elongation Factor 2 Kinase
- 1.20 **Victoria Schulman**, Syd Regulates Myonuclear Positioning and Muscle Function: Implications for Muscle Disease Etiology
- 1.21 **Donna Werling**, Investigation of Genetic Mechanisms Influencing Sex Differences in Autism Spectrum Disorder

HIV/AIDS

- 1.22 **Leia Miller**, Proteasome Inhibitors Act as Bifunctional Antagonists of HIV-1 Latency and Replication

Immunology

- 1.23 **Rachel Ames**, The Role of NFAT in T Cell Exhaustion
- 1.24 **Serkan Belkaya**, Transgenic Expression of MicroRNA-185 Impairs T Cell Development
- 1.25 **Abhisek Bhattacharya**, Novel, Critical Roles of Autophagy in Dendritic Cells and Neutrophils to Mediate EAE in Mice
- 1.26 **Angel Byrd**, An ECM-Matrix Based Mechanism of Rapid Neutrophil Extracellular Trap Formation in Response to *Candida albicans*
- 1.27 **Jessica Chacon**, Activating the 4-1BB pathway for Tumor Infiltrating Lymphocyte Expansion for Adoptive Cell Therapy
- 1.28 **Erin Harberts**, MyD88 Dependent TLR4 Signaling Controls Cell Fate and Constrains DNA Repair after UV-Irradiation
- 1.29 **Weishan Huang**, Innate Memory CD4+ T Cells Suppress Autoimmune Graft-versus-Host Disease
- 1.30 **Arun Kannan**, Complex Role for ITK Signaling in T Cell Development and Effector Function during Inflammation and Autoimmunity
- 1.31 **Alfreda Nelson**, The Physical Arrangement of Bivalent TCR/CD3 Ligands Can Regulate T Cell Division versus Apoptosis
- 1.32 **Alissa Rothchild**, iNKT Cell Production of GM-CSF Controls *Mycobacterium tuberculosis*
- 1.33 **Saheli Sadanand**, Anti-Hemagglutinin BCR IgH Knockin Mouse: a New Model for Studying Memory B Cells

Microbiology/Viruses

- 1.34 **Lisa Bono**, Competition and the Origins of Novelty: Experimental Evolution of the Host Range Expansion of a Virus
- 1.35 **Rita Czako**, Human Norovirus Infection Elicits Cross-reactive Surrogate Neutralizing Antibodies
- 1.36 **Adriana Forero**, Role of IRF4 in IFN-stimulated Gene Induction and Maintenance of KSHV Latency in PEL Cells
- 1.37 **Morgan Johnson**, *N. gonorrhoeae* Phagosomes Delay Fusion with Primary Granules to Enhance Bacterial Survival inside Human PMNs
- 1.38 **Joseph Kulinski**, The Role of ATM Kinase in Balancing Host-Virus Dynamics during Chronic Gammaherpesvirus Infection
- 1.39 **Janet Liu**, Zinc Sequestration by the Neutrophil Protein Calprotectin Enhances Salmonella Growth in the Inflamed Gut
- 1.40 **Harald Messer**, Temporal Removal of H3K27me3 during Reactivation of HSV-1 Reveals a Biphasic Pattern of Chromatin Remodeling
- 1.41 **Jenish Patel**, ATPase-driven Oligomerization of RIG-I on RNA Allows Optimal Activation of Type-I Interferon
- 1.42 **Jared Pitts**, The Herpesvirus UL37 Protein: a Tether between Viral Capsids and Cytoplasmic Budding Vesicles
- 1.43 **Valerie Ray**, Identification of Novel Genes Involved in Biofilm Formation by *Vibrio fischeri*
- 1.44 **Kevin Roelofs**, Systematic Identification of cdiGMP Binding Proteins in *Vibrio cholerae*
- 1.45 **Jason Schifano**, Mycobacterial Toxin MazF-mt6 Inhibits Translation through Cleavage of 23S rRNA at the Ribosomal A Site
- 1.46 **Jaturong Sewatanon**, PML Protein Modulates Establishment and Maintenance of Gammaherpesvirus Latency in Peritoneal Cells
- 1.47 **Emily Stevenson**, HCMV-induced STAT1 is Required for Survival, Differentiation, and Polarization of Infected Monocytes
- 1.48 **Kevin Tsai**, Disruption of Daxx-ATRX Chromatin Remodeling Complex by Epstein-Barr Virus Tegument Protein BNRF1
- 1.49 **Yan Zheng**, The Dynamics of Structural Proteins during Alphavirus Entry and Exit

MMP/ECM/Cytoskeleton

- 1.50 **Cristina Rohena**, Molecular Mechanism of Actions of the Taccalonolides: Novel Microtubule Stabilizers

Modeling/Computational Biology/Informatics

- 1.51 **Valerie Fako**, Molecular Mechanism of Orlistat Hydrolysis by Fatty Acid Synthase for Targeted Drug Discovery

Neurobiology – Cognition and Behavior

- 1.52 **Amanda Barkley-Levenson**, Neuropeptide Y in High Drinking in the Dark Selectively Bred Mice
- 1.53 **Paul Brown**, A Role for the Lateral Habenula in Encoding Negative Valence via the RMTg
- 1.54 **Jonathan Power**, Network Measures Predict Locations where Lesions Especially Disrupt Cognition
- 1.55 **Katherine Reding**, Chronic Psychosocial Stress and Estradiol Alter Amygdalo-cortical Intrinsic Functional Connectivity
- 1.56 **Jared Saletin**, Hippocampus Structure Predicts Memory Vulnerability to Sleep Deprivation, and Restoration following Sleep
- 1.57 **Andrea Spaeth**, Effects of Chronic Sleep Restriction on Caloric Intake in Healthy Adults
- 1.58 **Andrew Wikenheiser**, Hippocampal Contributions to Prospective and Retrospective Decision Making

Neurobiology – Electrophysiology

- 1.59 **Aimee Franklin**, Inhibition of GSK3 Reverses Deficits in Long Term Potentiation in Dentate Gyrus of Fmr1^{-/-} Mice
- 1.60 **Emily Petrus**, Potentiation of Feed-forward Inputs in Auditory Cortex after Visual Deprivation
- 1.61 **Giulia Quattrocchio**, Postsynaptic Effects of Cajal-Retzius Cells onto Interneurons and Pyramidal Cells of the Hippocampal Formation
- 1.62 **Benjamin Scholl**, Intracellular Recordings and LFP Measurements from V1 of the Awake Behaving Macaque

Neurobiology – Receptors, Channels, Transporters

- 1.63 **Meghan Kerrisk**, Fundamental Mechanisms that Regulate Synapse and Dendrite Stability
- 1.64 **Agila Somasundaram**, Store-operated Calcium Signaling in Neural Stem Cells

Neurological Diseases

- 1.65 **Seemin Ahmed**, Understanding Canavan's disease: Novel Insights and Potential Therapeutics
- 1.66 **Yang Cao**, Dnr1 Mutations Cause Neurodegeneration in Drosophila by Activating the Innate Immune Response in the Brain
- 1.67 **Noah Gubner**, Combined Effects of Nicotine and Ethanol on Conditioned Reward and Neuroadaptation in DBA/2J Mice
- 1.68 **Jaime Kaminer**, The Role of Beta Band Oscillatory Activity in Blink Reflex Abnormalities in a Rat Model of Parkinson's Disease
- 1.69 **Brittany Wright**, Lipid Kinase Regulation of Nociceptive Signaling and Sensitization: Implications for Novel Analgesics

Physiology

- 1.70 **Yi-Chun Chen**, Mitogen-inducible Gene 6 Haploinsufficiency Protects Mice against Streptozotocin-induced Diabetes
- 1.71 **Karlie Jones**, Elevation of GSK3b Is a Key Determinant of Muscle Pathology in Myotonic Dystrophy 1

Protein Complexes

- 1.72 **Natalia Khuri**, Modeling of Dynamic Multimolecular Assemblies: Application to Sick Cell Hemoglobin Aggregation

Protein Structure/Function

- 1.73 **Alexander Patananan**, Defying Protein Isomerization in Aging: Baker's Yeast Limit Damage with Novel Mechanisms
- 1.74 **Anand Ramanathan**, Structural Basis of RNA Recognition and Activation by the Human Innate Immune Receptor RIG-I

Public Health/Global Health

- 1.75 **Joshua Radke**, An ApiAP2 Transcription Factor Regulates Formation of the Clinically Relevant Toxoplasma Tissue Cyst

Regenerative Medicine/Tissue Engineering

- 1.76 **Mariana Garcia**, Myopia Control through Polymer-Mediated Scleral Regeneration
- 1.77 **Noah Johnson**, Growth Factor Delivery Platform for Tissue Repair and Regeneration
- 1.78 **Lindsey Ott**, Material Composition Gradients and Protein-Loaded Fibrous Scaffolds: An Animal Model Study for Trachea Repair
- 1.79 **Patrick Stahl**, Encoding Physico-Chemical Cues in Hydrogels by Triple Helix Assembly of Collagen Mimetic Peptides

Regulation of Gene Expression

- 1.80 **Jessica Chery**, An Evolutionarily Conserved Zinc Finger Protein Promotes X-specific Targeting of *Drosophila* Dosage Compensation
- 1.81 **Kimberly Keil**, Role for DNA Methylation in the Outgrowth of Developing Mouse Prostate Epithelium
- 1.82 **Anna Lyubetskaya**, Reconstructing the Regulatory Network of TB: Transcription Factor Binding Distribution and Properties
- 1.83 **Amanda Suchanek**, Dietary Intake Regulates G6PD mRNA Splicing Via A Bifunctional ESE/ESS Element
- 1.84 **Jennifer West**, Discovery and Identification of Hfq-bound nanoRNAs in *Escherichia coli*

Signaling

- 1.85 **Danielle Huk**, Nuclear Exclusion of Sox9 in Valve Interstitial Cells Is Associated with Calcific Phenotypes in Heart Valves
- 1.86 **Alexander Lohman**, TNFa Promotes ATP Release from Venous Endothelial Cell Pannexin1 Channels

Social/Behavioral Science

- 1.87 **Brian Anderson**, Attentional Bias for Non-drug Reward Is Magnified in Addiction
- 1.88 **Christy Olson**, An fMRI Study of Source Memory in Obsessive-Compulsive Disorder

Stem Cells

- 1.89 **Bryan Fioret**, Endothelial-like Progenitor Cells Generate Ventricular Cardiomyocytes during Cardiac Homeostasis
- 1.90 **Sophia Gayle**, Identification of a Role for Nuclear RHOA in hESC Differentiation with piggyBac Insertional Mutagenesis
- 1.91 **Lama Tarayrah**, Histone Demethylase dUTX Antagonizes JAK-STAT Signaling to Maintain Drosophila Testis Niche

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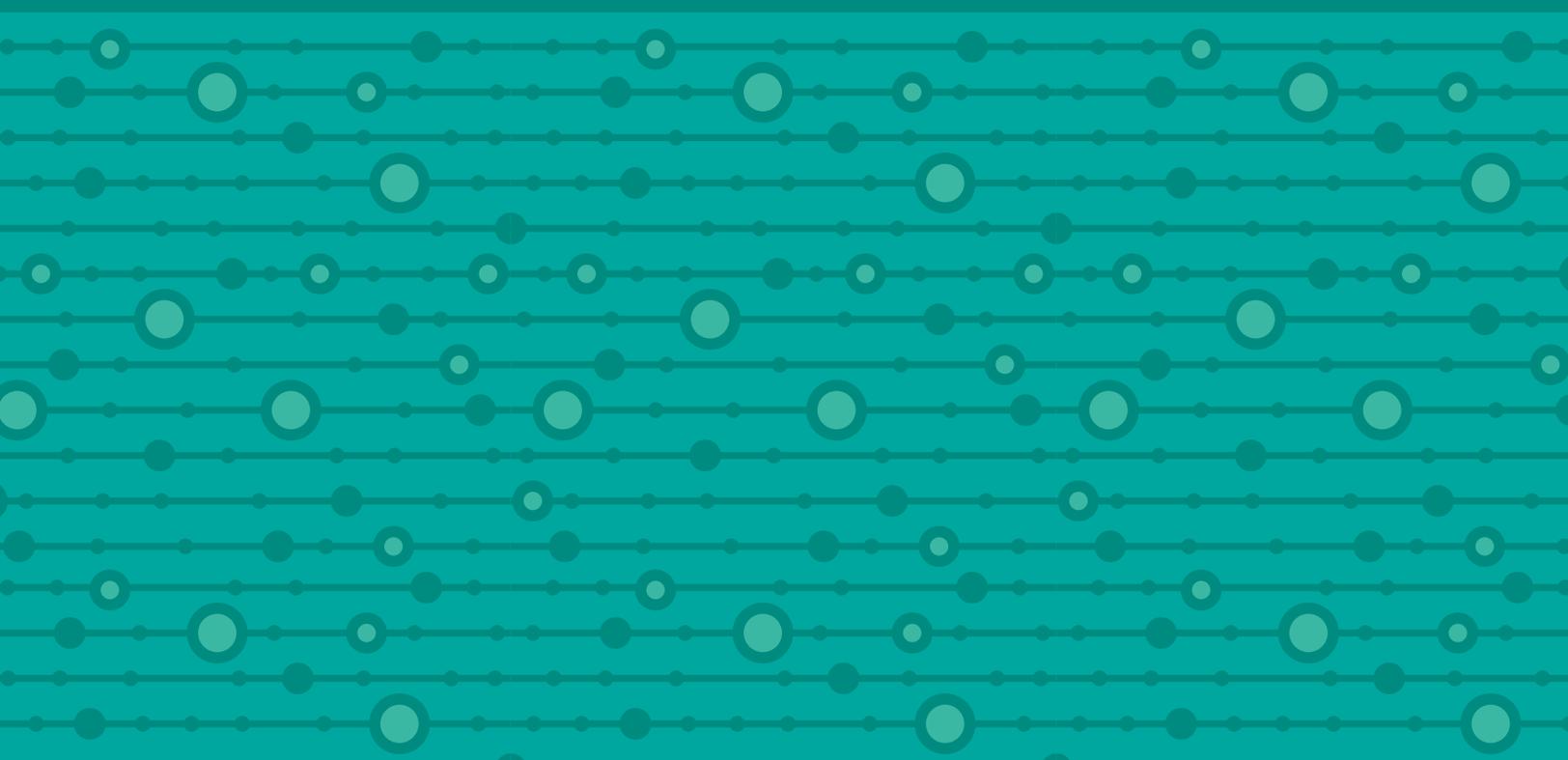
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