Research Intensive

Curiculum Vitae

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Education

2000 – 2004	Postdoctoral Fellow, Departments of Cell Biology, Biochemistry, and Neuroscience; Howard Hughes Medical Institute; Duke University. Durham, North Carolina Vann E. Bennett, Advisor
1995 – 2000	PhD; Cell and Molecular Physiology; University of North Carolina at Chapel Hill, Chapel Hill, North Carolina Sharon L. Milgram, Advisor
1990 – 1995	BS (Biology), *cum laude*, Wake Forest University, Winston Salem, North Carolina

Awards & Honors:

2003	Duke University Medical School Nominee, Burroughs Wellcome Career Award in Biomedical Science
1999 – 2000	Dissertation Fellowship, University of North Carolina at Chapel Hill
1999	Worthington Fellowship, American Society of Cell Biology
1995	Honors in Biology, Wake Forest University; Dr. Carole L. Browne, Advisor, 1995

Teaching Experience

1999	Teaching assistant; *Molecular Mechanisms of Disease* (Physiology 225), UNC-Chapel Hill, School of Medicine
1998	Teaching assistant; *Medical Physiology*, UNC-Chapel Hill, School of Medicine; 1997 and 1998

Invited seminars

May 2003	Department of Pulmonary Medicine, University of North Carolina at Chapel Hill
February 2002	University of Maryland/UMBI
June 2001	Duke University Cardiology Grand Rounds
May 2001	UNC-Chapel Hill Department of Cell Biology Annual Retreat
October 1999	North American Cystic Fibrosis Conference

Leadership

2001	Co-organizer, Duke University Postdoctoral Fellow Journal Club
1996 – 1997	Graduate student representative; Department of Cell and Molecular Physiology Graduate Program Review Committee

Publications

Mohler PJ, S Guatimosim, LH Davis, L-S Song, WH duBell, P Michaely, SK Jones, JA Hoffman, HA Rockman, TB Rogers, WJ Lederer, and V Bennett. Ankyrin-B-coupled Na/K pump is the physiological target for cardiac glycosides in the heart. *Under review***.**

Mohler PJ, I Splawski, C Napolitano, JA Hoffman, JQ Davis, G Bottelli, L Sharpe, C-R Kim, K Timothy, KM Abdi, SK Jones, LH Davis, KF Roberts, SG Priori, MT Keating, and V Bennett. Cardiac arrhythmia associated with ankyrin-B mutation that blocks interaction with co-chaperone Hsp40. *Submitted – **PNAS.***

Wehrens, XHT, SE Lehnart, F Huang, JA Vest, SR Reiken, **PJ Mohler**, J Sun, S Guatimosim, LS Song, N Rosemblit, JM D'Armiento, C Napolitano, M Memmi, SG Priori, WJ Lederer, and AR Marks. 2003. FKBP12.6 deficiency and defective calcium release channel (ryanodine receptor) function linked to exercise-induced sudden cardiac death. ***Cell.*** 113: 829-840.
Comment in: Most, P., and W.J. Koch. 2003. Sealing the leak, healing the heart. ***Nature Medicine***. 9:993-994.

Mohler, PJ, JJ Schott, AO Gramolini, KW Dilly, S Guatimosim, WH DuBell, LS Song, K Haurogne, F Kyndt, ME Ali, TB Rogers, WJ Lederer, D Escande, H LeMarec, and V Bennett. 2003. Ankyrin-B mutation causes type 4 long-QTcardiac arrhythmia and sudden cardiac death. ***Nature***. 421:634-9

Mohler, PJ, AO Gramolini, and V Bennett. 2002. Ankyrins. ***Journal of Cell Science*****.** 115:1565-6.

Mohler, PJ, AO Gramolini, and V Bennett. 2002. The Ankyrin-B C-terminal Domain Determines Activity of Ankyrin-B/G Chimeras in Rescue of Abnormal Inositol 1,4,5-Trisphosphate and Ryanodine Receptor Distribution in Ankyrin-B (-/-) Neonatal Cardiomyocytes. ***Journal of Biological Chemistry***. 277:10599-607.

Mohler, PJ, PL Kultgen, MJ Stutts, and SL Milgram. 2002. Biochemical assays for studying indirect interactions between CFTR and the cytoskeleton. ***Methods in Molecular Medicine*****.** 70:383-94.

Goy, MF, PM Oliver, KE Purdy, JW Knowles, JE Fox, **PJ Mohler**, X Qian, O Smithies, and N Maeda. 2001. Evidence for a novel natriuretic peptide receptor that prefers brain natriuretic peptide over atrial natriuretic peptide. ***Biochemical Journal*** 358:379-87.

Mohler, PJ, SM Kreda, RC Boucher, M Sudol, MJ Stutts, and SL Milgram. 1999. Yes-associated protein 65 localizes p62(c-Yes) to the apical compartment of airway epithelia by association with EBP50 (NHERF). ***Journal of Cell Biology*** 147:879-90.

Browne, CL, R Creton, E Karplus, PJ Mohler, RE Palazzo, and AL Miller. 1996. Analysis of the calcium transient at nuclear envelope breakdown during the first cell cycle in dividing sea urchin eggs. Biological Bulletin 191: 5-16.