

NAME:

Joshua R. Berlin , Ph.D.

POSITION TITLE:

Professor

INSTITUTION AND LOCATION	DEGREE	YEAR(S)	FIELD OF STUDY
Northwestern Univ., Evanston, IL	B.A.	1979	Chemistry
Northwestern Univ., Evanston, IL	M.S.	1979	Chemistry
Michigan State Univ., E. Lansing, MI	Ph.D.	1984	Pharmacology

A. Positions and Honors**POSITIONS HELD**

1987-1989: Research Assistant Professor, Univ. of Maryland School of Medicine.

1989-1996: Research Scientist, Bockus Resreach Institute, Graduate Hospital, P.A.

1997-1998: Associate Professor, Dept. of Physiology, MCP-Hahnemann School of Medicine, Allegheny University of the Health Sciences.

1998-2004: Associate Professor, UMDNJ- New jersey Medical School, Dept. of Pharmacology and Physiology, Newark, NJ.

2004-date: Professor, UMDNJ - New Jersey Medical School, Dept. of Pharmacology and Physiology, Newark, NJ.

HONORS

1992 Dan Charitable Trust Research Fellowship

1994 Lakian Research Fellowship, Marine Biological Laboratory in Woods Hole, MA

1996 Fellowship, Japanese Society for the Promotion of Science

1996 Stunkard Research Fellowship, Marine Biological Laboratory in Woods Hole, MA

1999 Dan Charitable Trust Fellowship

2005 UMDNJ-Stuart Cook Master Educator Guild

2009 MSU Department of Pharmacology and Toxicology Outstanding Alumni Award

B. Selected Peer-Reviewed Publications.

Peluffo RD, Gonza◆lez-Lebrero RM, Kaufman SB, Kortagere S Orban B, Rossi RC, **Berlin JR** :

Quaternary benzyltriethylammonium ion binding to the Na,K-ATPase: a tool to investigate extracellular K + binding reactions. *Biochemistry* (DOI: 10.1021/bi900687u).

Wang M, **Berlin JR** : Voltage-dependent modulation of L-type calcium currents by intracellular magnesium in rat ventricular myocytes. *Arch Biochem Biophys* 458:65-72, 2007.

Wang M, **Berlin JR** : Channel phosphorylation and modulation of L-type calcium currents by cytosolic magnesium ion concentration. *Am J Physiol* 291:C83-92, 2006.

Lott DA, Li M, **Berlin JR** : Effectiveness of numerical techniques for calculating the quantity of Ca 2+ species during calcium sparks in heart muscle. *J Interdiscipl Math* 8:343-368, 2005.

Peluffo RD, Hara Y, **Berlin JR** : Quaternary amines inhibit Na,K-pump current in a voltage-dependent manner: Direct evidence of an extracellular access channel in the Na,K-ATPase. *J Gen Physiol* 123:249-263, 2004 .

Wang M, Tashiro M, **Berlin JR** : Regulation of L-type calcium current by intracellular magnesium in rat cardiac myocytes. *J Physiol (Lond)* 555:383-396, 2004 .

Yasukochi M, Uehara A, Kobayashi S, **Berlin JR** : Ca²⁺ and voltage dependence of cardiac ryanodine receptor channel block by sphingosylphosphorylcholine. *Pflügers Archiv* 445:665-673, 2003.

Peluffo RD, Argüello JM, Lingrel JB, **Berlin JR** : Electrogenic sodium-sodium exchange carried out by Na,K-ATPase containing the amino acid substitution Glu779Ala. *J Gen Physiol* 116:61-73, 2000.

Peluffo RD, Argüello JM, **Berlin JR** : The role of Na,K-ATPase α -subunit serine 775 and glutamate 779 in determining the extracellular K⁺ and membrane potential dependent properties of the Na,K-pump. *J Gen Physiol* 116:47-59, 2000.

Spencer CI, Barsotti RJ, **Berlin JR** : Loading of calcium and strontium into the sarcoplasmic reticulum in rat ventricular muscle. *J Molec Cell Cardiol* 32:1285-1300, 2000.