

Paramjeet K. Randhawa

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(919) 886-4553

HIGHLIGHTS

- Effective managing and multi-tasking skills
- Recipient of American Heart Association Pre-doctoral Fellowship
- Certificate of Completion for “Essential Skills for Success in Industry”
- Successful publication record
- Research interests include developmental vascular biology, diabetes, hypertension and cancer

EDUCATION

Doctorate, PhD in Molecular, Cell, and Developmental Biology 2004-2011
University of North Carolina (UNC-CH), Chapel Hill, NC
Advisor: Victoria Bautch
Title: *The Ras activator RasGRP3 mediates diabetes-induced embryopathy and endothelin-1-induced vessel morphogenesis.*

Undergraduate, Bachelor of Science in Molecular Biology, Minor in Psychology 2004-present
Graduated with High Honors, G.P.A. 3.32
Lehigh University, Bethlehem, PA
Advisor: Barry Bean
Honors Thesis: *Antibodies to zona pellucida proteins may contribute to Premature Ovarian Failure.*

FELLOWSHIPS, AWARDS AND HONORS

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| American Heart Association Pre-doctoral Fellowship (0715187U) for \$40,000 | 2007- 2009 |
| Certificate of Completion for “Essential Skills for Success in Industry” | 2009 |
| Office of Undergraduate Research Mentor Award | 2008 |
| Integrative Vascular Biology/Carolina Cardiovascular Biology Center Symposium Best Poster Award | 2008 |
| Developmental Biology Training Grant travel award to American Society for Cell Biology meeting | 2007 |
| Cell and Molecular Biology Training Grant travel award to North American Vascular Biology Organization meeting | 2006 |
| Who’s Who The Chancellor’s List | 2004-2005 |
| Biology Honors Program | 2000-2001 |
| Howard Hughes Grant Recipient | 2000 |

PUBLICATIONS

Randhawa PK, Rylova S, Heinz JY, Kiser S, Fried JH, Dunworth WP, Anderson AL, Barber AT, Chappell JC, Roberts DM, Bautch VL. (2011) The Ras activator RasGRP3 mediates diabetes-induced embryonic defects and affects endothelial cell migration. *Circulation Research*. E-pub ahead of print. (Recognized as a featured article.)

Rylova SN, **Randhawa PK**, Bautch VL. (2008) *In vitro* differentiation of mouse embryonic stem cells into primitive blood vessels. *Meth Enzymol, Angiogenesis: In Vitro Systems* (ed. D Cheresch). 443:103-117, San

Diego CA: Elsevier Academic Press.

Funaki M, Benincasa K, **Randhawa PK**. (2007) Peptide rescues GLUT4 recruitment, but not GLUT4 activation in insulin resistance. *Biochemical and Biophysical Research Communications*. 360(4): 891-6.

Funaki M, **Randhawa PK**, Janmey PA. (2004) Separation of Insulin Signaling into Distinct GLUT4 Translocation and Activation Steps. *Mol Cell Biol*. 24(17): 7567-77.

Bucki R, Pastore JJ, **Randhawa PK**, Vegners R, Weiner DJ, Janmey PA. (2004) Antibacterial activities of rhodamine B-conjugated gelsolin-derived peptides compared to those of the antimicrobial peptides cathelicidin LL37, magainin II, and melittin. *Antimicrobial Agents and Chemotherapy*. 48:1526-1533.

Michaud SE, Wang LZ, Korde N, Bucki R, **Randhawa PK**, Pastore JJ, Falet H, Hoffmeister K, Kuuse R, Uibo R, Herod J, Sawyer E, Janmey PA. (2002) Purification of salmon thrombin and its potential as an alternative to mammalian thrombins in fibrin sealants. *Thrombosis Research*.107: 245-254.

RESEARCH EXPERIENCE

Doctoral Candidate, UNC-CH, Chapel Hill, NC 2004-2011
Responsibilities: Explore how misregulation of a novel endothelial Ras activator affects vessel formation using techniques in biochemistry, cell biology, and molecular biology. Isolated endothelial cells from tissue and conducted activation and migration assays to assess signaling and behavioral changes in endothelial cells.

Research Specialist B, University of Pennsylvania, Institute for Medicine and Engineering, Philadelphia, PA 2001-2004
Responsibilities: Served as lab manager and conducted research for several projects (platelet aggregation, GLUT4 signaling in adipocytes, gelsolin activity, and thrombin-catalyzed fibrin polymerization) under Dr. Paul Janmey, Dr. Makoto Funaki, and Dr. Robert Bucki.

PROFESSIONAL EXPERIENCE

Managing Editor, American Journal Experts, Durham, NC 2011-present
Responsibilities: Oversee editors to provide high-quality editing for manuscripts of non-native English speakers.

Senior Editor, American Journal Experts, Durham, NC 2011-2011
Responsibilities: Edited and provided detailed feedback for manuscripts of non-native English speakers in the fields of pharmacology, clinical medicine, public health and healthcare, biological modeling, and biological sciences.

In-house Editor, American Journal Experts, Durham, NC 2011-2011
Responsibilities: Edited over 200 manuscripts of non-native English speakers in the fields of cardiovascular, developmental, cancer, and plant biology.

Teaching Intern, Contemporary Science Center, Durham, NC 2010-2011
Responsibilities: Teaching biology-based field studies and providing students the opportunity to use laboratory science to address real-world problems (Cystic Fibrosis module sponsored by Inspire Pharmaceuticals).

Contract Editor, American Journal Experts, Durham, NC 2010-2011
Responsibilities: Edited 20 manuscripts in the fields of cardiovascular, developmental, cancer, and plant biology.

DNA Day Ambassador, UNC-CH, The Training Initiative in Biomedical and Biological Sciences, Chapel Hill, NC 2007-2010
Responsibilities: Led discussion with high school students about how genetics impact everyday life. Educated students about diverse careers obtainable with a background in science.

Mentor, UNC-CH, Chapel Hill, NC 2006-2010
Responsibilities: Mentored 4 rotating graduate students and 2 undergraduates working on independent projects (JY Heinz, SURF Recipient, HVP Wilson Award winner; and SB Kiser, CURE program, poster award). Recognized by the Office of Undergraduate Research with a Mentor Award.

Teaching Assistant, Biology 011 Laboratory, UNC-CH, Chapel Hill, NC 2004
Responsibilities: Led two undergraduate laboratory sections, graded laboratory reports and developed and graded exams.

MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS

American Association for the advancement of Science: Student Member since 2010
Sigma Xi (UNC Chapter): Associate (Student) Member since 2009
North American Vascular Biology Organization: Student Member since 2005
American Society for Cell Biology: Student Member since 2004

SELECTED FROM 18 POSTER PRESENTATIONS

Randhawa PK, Roberts DM, Dunworth W., Rylova S. Anderson A., Heinz JY, Der CJ, Patterson C., Bautch VL. RasGRP3 mediates DAG/phorbol ester signaling to endothelial junctions via a MEK/ERK pathway. UNC Cell and Molecular Biology Training Grant Symposium 2009.

Randhawa PK, Roberts DM, Dunworth W., Rylova S. Anderson A., Heinz JY, Der CJ, Patterson C., Bautch VL. RasGRP3 mediates DAG/phorbol ester signaling to endothelial junctions via a MEK/ERK pathway. North American Vascular Biology Organization Meeting 2008.

Randhawa PK, Roberts D., Dunworth W., Anderson A., Bautch VL. (2008) RasGRP3, a novel Ras activator, is involved in disruption of endothelial adherens junctions. UNC Integrative Vascular Biology/Carolina Cardiovascular Biology Center Symposium 2008 (received poster award).

Randhawa PK, Roberts DM, Dunworth W., Rylova S. Anderson A., Heinz JY, Der CJ, Patterson C., Bautch VL. RasGRP3 mediates DAG/phorbol ester signaling to endothelial junctions via a MEK/ERK pathway. UNC Developmental Biology Training Grant Symposium 2008.

Randhawa PK, Roberts DM, Dunworth W., Anderson A., Bautch VL. A novel Ras activator, RasGRP3, is involved in disruption of endothelial adherens junctions. American Society for Cell Biology 2007.

Randhawa PK, Roberts DM, Dunworth W. Anderson A., Stanford W., Bautch VL. Exploring the role of RasGRP3 and its downstream pathways in VEGF-induced dysmorphogenesis. GPP-NIH Research Day 2005.