

Curriculum Vitae

Rampyari Raja Walia, PhD

Business Address :

Targeting Systems

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Education:

Graduate

- Ph.D., (Biochemistry), 1987
- Department of Human Biological Chemistry and Genetics
- University of Texas Medical Branch, Galveston, Texas
- Dissertation: "Biochemical Basis of Cellular Interactions with Hyaluronic Acid"
- Thesis Advisor: Paul H. Weigel, PhD

Undergraduate

- B.Sc Chemistry (with minor in Microbiology), 1978
Sophia College, Bombay University, India
 - M.Sc. Biochemistry (1980)
Sophia College, Bombay University, India
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Research Experience:

Positions Held

- CEO, Targeting Systems, Santee, CA, 5/96 - present
- CEO, Pluristem Innovations, Santee, CA, Jan 2007 - present
- Technical Director, Shakti Biosystems, Hyderabad, India, 2005 - present
- Adjunct Faculty, Department of Biology, San Diego State University 1998 - present

Instructor, 1992 - 1995

- Division of Cardiology, Department of Medicine
- Vanderbilt University, Nashville, TN

Assistant Professor, 1989 - 1991

- Division of Endocrinology, Department of Medicine
Birmingham, AL

- Fellowship from the National Kidney Foundation, 1987- 1989
Department of Biochemistry - Birmingham, AL

- Graduate Student, 1981- 86
Department of Biochemistry, UTMB, Galveston

Research Grant Support: No Active Grant Support

Have previously received grants **from:**

- American Heart Association
 - American Diabetes Association
 - Cystic Fibrosis Foundation
 - National Kidney Foundation
 - National Institutes of Health - Phase I SBIR
(Small Business Innovation Research) Targeting Systems
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Research Publications

(Note publications **1-12** are in Dr Walia's maiden name **Raja**)

- 1) Raja RH, LeBoeuf RD, Stone G, and Weigel PH (1984) Preparation of alkylamine and I125- labeled derivatives of hyaluronic acid uniquely modified at the reducing end. *Anal. Biochem.* 139: 168- 177
- 2) Raja RH, Herzig MH, Grissom M, and Weigel PH (1986). Preparation and use of synthetic cell culture surfaces. *J Biol. Chem.* 281: 8505- 8513
- 3) LeBoeuf RD, Raja RH, Fuller GM and WEigel PH (1986). Human fibrinogen specifically binds to hyaluronic acid. *J. Biol. Chem.* 261: 12586- 12592
- 4) Raja RH, McGary CT, and Weigel PH (1988). Affinity and distribution of surface and intracellular hyaluronic acid receptors in isolated rat liver endothelial cells. *J. Biol. Chem.* 263: 16661- 16668
- 5) Frost SJ, McGary CT, Raja RH, and Weigel PH (1988) Specific intracellular hyaluronic acid binding to isolated rat hepatocytes is membrane associated. *Biochim. Biophys. Acta* 946 (1) 66- 74
- 6) Frost SJ, McGary CT, Raja RH, and Weigel PH (1990) Characterization of an intracellular hyaluronic acid binding site in isolated rat hepatocytes. *Biochemistry.* Nov 13;29(45):10425- 32.
- 7) McGary CT, Raja RH and Weigel PH (1989) Endocytosis of hyaluronic acid by rat liver endothelial cells. *Biochemical J.* 257: 875- 884.
- 8) Hook M, Raucci G, Raja RH, Signas C, Jonsson K, Lindgren PE and Lindberg M. (1989). A fibronectin binding protein from *Staphylococcus aureus* and its role in bacterial adherence. In *Molecular Mechanisms of Microbial Adhesion.* LM Switalski, M Hook, E. Beachy. Eds. Springer Verlag, Berlin, pp 107- 117.
- 9) Raja RH, Raucci G and Hook M. (1990) Peptide analogs to a fibronectin receptor inhibit attachment of *Staphylococcus aureus* to fibronectin- coating substrates. *Infect. Immune.* 58: 2593- 2598
- 10) Hook M, McGavin M, Switalski LM, Raja RH, Raucci G, Lindgren PE, Lindgren M and Signas C. (1990) Interaction of bacteria with extra cellular matrix proteins. *Cell Diff. and develop.* 32: 433- 438.
- 11) Raja RH, Paterson AJ, Shin TH and Kudlow JE (1991) Transcriptional regulation of the human transforming growth factor alpha gene. *Molec. Endocrinol.* 5(4): 514- 520.

- 12) Nabell LM, Raja RH, Sayeski PP, Paterson AJ, and Kudlow JE (1994) Human immunodeficiency virus 1 tat stimulates transcription of the transforming growth factor alpha gene in an EGF- dependant manner. *Cell Growth Diff.* 5 (1): 87- 93.
- 13) Raja- Walia R, Weber JC, Chapman GD, Naftilan J and Naftilan AJ (1995) Enhancement of liposome-mediated gene transfer to vascular tissue by replication- deficient adenovirus. *Gene Therapy.* 2: 521- 5.
- 14) Stecenko A, King G, Torli K, Gao X, Persmark M, Shih K, Brigham K, Raja- Walia R (2000) Enhancement of liposome- mediated gene transfer to airway epithelial cells by replication- deficient adenovirus. *Exp. Lung Res.* : 179- 201.
- 15) Chen YQ, Su M, Walia RR, Hao Q, Covington JW and Baughan DE (1998) SP1 sites mediate activation of the plasminogen activator inhibitor- 1 promoter by glucose in vascular smooth muscle cells. *J. Biol. Chem.* 273(14) : 8225- 8231.
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Presentations :

Walia R., December 2009, Presentations describing use of the Live Response reporters:
LiveResponse-A panel of 5 novel ultrasensitive luciferase reporters for cell-based HTS applications
Presented at the American Society for Cell Biology meeting, San Diego.
Walia R., Tannous B., Ph. D. Massachusetts General Hospital, Harvard Medical School, 2007,
Gaussia Luciferase-a Novel Bioluminescent Reporter for Tracking Stem Cells Survival, Proliferation
and Differentiation in Vivo Presented at the SBE International stem cell bioengineering conference.

Invited Talks :

Roche GmbH, Penzberg, Germany, December 2004, Gaussia luciferase – A novel secreted luciferase
for studying mammalian gene expression
Perkin Elmer, Montreal, Canada, November 2006, Gaussia luciferase – A novel secreted luciferase for
studying mammalian gene expression
Thermo Fisher (Pierce), Rockwood, Illinois, Novel ultrasensitive luciferase reporters and multiplexed
assays for drug discovery and imaging applications
Pfizer Inc., San Diego, California, February 2011, Novel strategies for non-invasive analysis and imaging
of inflammation and metastasis in vivo