

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 Mand 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.