

CURRICULUM VITAE

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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

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*

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. boil. Chem.* 273(14) : 8225-8231.