

CURRICULUM VITAE

Name: Vadivel Ganapathy
Title: Grover Murray Professor and Chair
Welch Endowed Chair in Biochemistry
Office Address: Department of Cell Biology and Biochemistry
Texas Tech University Health Sciences Center
Lubbock, TX 79430
Office Telephone: (806) 743-2518

Personal

Home Address: 17 Tuscan Villa Circle, Lubbock, TX 79423
Cell Telephone: (806) 773-9284
Date of Birth: July 1, 1951
Place of Birth: Vettuvanam, Tamil Nadu, India
Citizenship: U.S.A.
Sex: Male
Race: Asian Indian
Marital Status: Married - Malliga Eshwari Ganapathy

Children: Preethi S. Ganapathy, Pramodh K. Ganapathy

Education

High School: Govt. Boys' High School, Pallikonda, Tamil Nadu, India
Undergraduate: Madras University, India, B.Sc., Chemistry, June 1968 - April 1971.
Graduate: Madras University, India, M.Sc., Biochemistry, June 1971 - April 1974;
Madras University, India, Ph.D., Biochemistry, June 1974 - Dec. 1978.
Post-doctoral Training: Hyderabad University, India, Dec. 1978 - Dec. 1979; University of Georgia,
Athens, Ga., Dec. 1979 - Dec. 1981; Medical College of Georgia, Augusta, Ga., Jan. 1981 - July
1982.

Professional

Academic Appointments:

Assistant Research Scientist, Department of Cell and Molecular Biology, Medical College of
Georgia, Georgia Regents University (GRU) Aug. 1982 - June 1984
Assistant Professor, Department of Cell and Molecular Biology, GRU, July 1984 - June 1988
Assistant Professor, Department of Physiology and Endocrinology, GRU, July 1986 - June 1990
Associate Professor, Department of Biochemistry and Molecular Biology, GRU, July 1988 - June
1993
Associate Professor, Department of Physiology and Endocrinology, GRU, July 1990 - June 1993
Professor, Department of Biochemistry and Molecular Biology, GRU, July 1993 - 1998
Regents' Professor, Departments of Biochemistry and Molecular Biology, GRU, 1998 - 2014
Professor, Department of Physiology and Endocrinology, GRU, July 1993 - 2014

Professor, Department of Obstetrics and Gynecology, GRU, January 1997 – 2014
Professor, Department of Surgery, GRU, January 2009 - 2014
Director, Perinatal Research Laboratory, GRU, July 1997 - 2004
Interim Chair, Department of Biochemistry and Molecular Biology, GRU, July 2001 - 2004
Chair, Department of Biochemistry and Molecular Biology, GRU, July 2004 – 2014
Program Leader, Signaling & Angiogenesis Program, GRU Cancer Center, July 2012-September 2014
Professor and Chair, Department of Cell Biology and Biochemistry, TTUHSC, Lubbock, TX, October 1014 - present

Membership in Professional Societies

American Association of Pharmaceutical Scientists
American Society of Biochemistry and Molecular Biology
Association of Medical and Graduate Departments of Biochemistry
Association for Research in Vision and Ophthalmology
American Association for Cancer Research

Administrative Responsibilities/Appointments

Editorial Board Member

American Journal of Physiology (2000-2003)
Journal of Physiology (2000-2005)
Journal of Pharmacology and Experimental Therapeutics (2000-present)
Pharmaceutical Research (2005-present)

Editorial reviewer: *American Journal of Physiology, Metabolism, Pediatric Research, Journal of Receptor Research, Biochimica et Biophysica Acta, Placenta, Biochemistry, Journal of Biological Chemistry, Journal of Physiology, American Journal of Obstetrics and Gynecology, Life Sciences, FEBS Journal, Canadian Journal of Pharmacy and Pharmacology, Molecular Pharmacology, Journal of Ocular Pharmacology and Therapeutics, Molecular Pharmaceutics, Experimental Physiology, Current Eye Research, Cellular and Molecular Life Sciences, Investigative Ophthalmology and Visual Science, Pharmaceutical Research, Journal of Pharmacology and Experimental Therapeutics, Physiology, Journal of Experimental Biology, Journal of Neurochemistry*

Grant Review

Ad hoc reviewer, Human Embryology and Development Study Section, National Institutes of Health
Ad hoc reviewer, British Columbia Health Care Research Foundation
Member, Human Embryology and Development Study Section, NIH, 1995-1999
Co-chair, FASEB Summer Research Conference on “New Perspectives in Transport Biology”
Member, Pregnancy and Neonatology Study Section, NIH, 2004
Member, Review committee for Program Projects and Kidney Center grants
Member, VA Merit Review, Gastroenterology Study Section, 2012
NIH/NCI Study Section to review Provocative Questions, Group A R21 applications, October

2013

NIH/NCI Special Emphasis Panel, U01 applications on the role of gut microbiome in colon cancer, 2015

NIH Study Section to review fellowship applications in oncology as a member of the Fellowship: Oncological Sciences Fellowship Panel, 2016

Service to the Institution

Member, Medical College of Georgia Research Institute grants review committee, September 1989 - June 1993

Member, Graduate Education Committee, 1991 - 1993

Member, Department Faculty Search Committee, 1990, 1992, 2000

Member, Graduate Education Curriculum Committee, 1991

Member, Committee on Animal Use for Research and Education, July 1990 - June 1994

Member, Search Committee for the Chair, Department of Cellular Biology and Anatomy, 1998-1999

Chair, Departmental Promotion and Tenure Committee, 1999-2000

Member, School of Graduate Studies Curriculum Committee, 1999-2000

Member, Committee on Undergraduate Medical Education, 2000

Member, Biomedical Research Council, 2001

Member, School of Medicine Promotion and Tenure Committee, 2001- 2005

Member, Department of Obstetrics and Gynecology Chair Search Committee, 2005

Chair, Biochemistry and Molecular Biology Faculty Search Committee, 2006

Member, Cancer Research Center Faculty Search Committee, 2006

Member, Research Planning Committee, 2006-

Member, Executive Committee of the School of Medicine, 2007-

Chair, Biochemistry and Molecular Biology Distinguished Faculty Search Committee, 2007

Member, Branch Campus Dean Search Committee, 2008

Member, Director for the Office of Laboratory Animal Services Search Committee, 2008

Member, Research Planning Committee, School of Medicine, 2008

Member, SOM Executive Committee, 2008

Member, Cancer Center Director Search Committee, 2010

Member, Gastroenterology Division Chief Search Committee, 2010

Member, Faculty Search Committee, GRU Cancer Center, 2012 - 2014

Member, Executive Committee, GRU Cancer Center, 2012 – 2014

Member, Executive Committee, Medical College of Georgia, GRU, 2009 - 2014

Institutional Awards / Recognition

August Roesel Memorial Award: Faculty Advisor for Graduate Student Research, 1994

August Roesel Memorial Award: Faculty Advisor for Graduate Student Research, 1995

Distinguished Research Award, School of Graduate Studies, 1995

Distinguished Faculty Award for Basic Science Research, School of Medicine Faculty Senate, 1995

The Quarter Award for Outstanding Teaching, Freshman Class of Medical Students, 1996

The Quarter Award for Outstanding Teaching, Freshman Class of Medical Students, 1997

Educator of the Year Award, Freshman Class of Medical Students, 1998

Educator of the Year Award, Freshman Class of Medical Students, 1999

Distinguished Faculty Award for Basic Science Teaching, School of Medicine Faculty Senate, 1999
The Semester Award for Outstanding Teaching, Freshman Class of Medical Students, 2000
Excellence in Teaching Award, Freshman Class of Medical Students, 2000
The Semester Award for Outstanding Teaching, Freshman Class of Medical Students, 2001
Excellence in Teaching Award, Freshman Class of Medical Students, 2001
The Semester Award for Best Teacher in Medical Biochemistry, Freshman Class of Medical Students, 2002
The Semester Award for Best Teacher in Medical Biochemistry, Freshman Class of Medical Students, 2003
The Semester Award for Best Teacher in Medical Physiology, Freshman Class of Medical Students, 2003
Educator of the Year Award, Freshman Class of Medical Students, 2003
Educator of the Year Award, Freshman Class of Medical Students, 2004
“Most Outstanding Biochemistry Professor” Award, Freshman Class of Medical Students, 2004
Educator of the Year Award, Freshman Class of Medical Students, 2005
Educator of the Year Award, Freshman Class of Medical Students, 2006
Educator of the Year Award, Freshman Class of Medical Students, 2007
Innovation in Teaching Award, The Students of the Medical College of Georgia School of Medicine, 2007
Educator of the Year Award, Freshman Class of Medical Students, 2008
Outstanding Graduate School Faculty Award, 2008
Educator of the Year Award, Freshman Class of Medical Students, 2009
Exemplary Teaching Award for Medical Student Education, 2009
Exemplary Teaching Award for Medical Student Education, 2010
Outstanding Faculty Award, School of Medicine, 2010
Exemplary Teaching Award for Medical Student Education, 2011
Educator of the Year Award, Freshman Class of Medical Students, 2011
Students’ Faculty Choice Award from SEEP program, 2011
Exemplary Teaching Award for Medical Student Education, 2012
Students’ Faculty Choice Award from SEEP program, 2012
Educator of the Year Award, Freshman Class of Medical Students, 2013
Exemplary Teaching Award for Medical Student Education, 2013
Students’ Faculty Choice Award from SEEP program, 2013
Educator of the Year Award, Freshman Class of Medical Students, 2014
Exemplary Teaching Award for Medical Student Education, 2014
Students’ Faculty Choice Award from SEEP program, 2014
Dean’s Basic Science Teaching Award-Year 1, TTUHSC, 2016
SGA Outstanding Faculty, MSI 2015-2016, TTUHSC, 2016
DOME/SOM Block Teaching Award for Biology of Cells and Tissues, TTUHSC, 2016
John Buessler Award for Basic Sciences Teaching, TTUHSC, 2016
University Distinguished Faculty, TTUHSC, 2016
SGA Outstanding Faculty, MSI 2015-2016, TTUHSC, 2017
John Buessler Award for Basic Sciences Teaching, TTUHSC, 2017
Dean’s Douglas M. Stocco Scholarship/Research Award, TTUHSC, 2017
Grover Murray Endowed Professor, TTUHSC, 2017

National/International Awards

Rank Prize for Year 2003, awarded by the Rank Prize Funds, United Kingdom, in recognition of the work on the identification, molecular characterization and control of cellular nutrient transporters

Elected as the Fellow of the Japanese Society for the Study of Xenobiotics, 2009

Elected to the Alpha Omega Alpha Honor Medical Society, 2013

Research Funding

PAST

Grant	Project Period	Total Budget (Direct Cost)
1. Medical College of Georgia Research Institute Grant Maternal-Fetal Exchange of Small Peptides and Its Regulation Vadivel Ganapathy, Principal Investigator	04/15/85 – 04/14/86	\$6,134
2. Medical College of Georgia Research Institute Grant Identification of Na ⁺ -H ⁺ Exchanger in Human Placental Brush-border Membrane Vadivel Ganapathy, Principal Investigator	11/01/86 – 10/31/87	\$7,800
3. NIH Grant DK 28389 Protein Nutrition-Peptide Transport in Gut and Kidney Vadivel Ganapathy, Co-Investigator	01/01/86 – 12/30/88	\$283,805
4. NIH Grant DK 36827 (subcontract) Potential Role of Insulin in the Mammalian Colon Vadivel Ganapathy, Principal Investigator for the subcontract	12/01/86 – 11/30/89	\$67,988
5. NIH Grant HD 22103 Human Placental Na ⁺ -H ⁺ Exchanger: Function and Regulation Vadivel Ganapathy, Principal Investigator	04/01/87 – 03/31/90	\$216,886
6. Medical College of Georgia Research Institute Grant Molecular Aspects of the Placental Serotonin Transporter Vadivel Ganapathy, Principal Investigator	12/01/90 – 11/30/91	\$9,930
7. NIH Grant DK 28389 Protein Nutrition-Peptide Transport in Gut and Kidney Vadivel Ganapathy, Co-Investigator	12/01/89 – 11/30/92	\$208,438
8. NIH Grant HD 24451 Human Placental Amino Acid Transport: Molecular Aspects Vadivel Ganapathy, Principal Investigator	04/01/89 – 03/31/94	\$375,249
9. NIH Grant DK 42069 Dipeptidylpeptidase IV Deficiency: Biochemical Consequences Vadivel Ganapathy, Co-Investigator	02/01/90 – 01/31/95	\$449,362

10. NIH Grant HD 22103 Human Placental Na ⁺ -H ⁺ Exchanger: Function and Regulation Vadivel Ganapathy, Principal Investigator	04/01/90 – 03/31/95	\$476,724
11. NIH Grant HD 27487 Molecular Aspects of the Placental Serotonin Transporter Vadivel Ganapathy, Principal Investigator	08/01/92 – 07/31/95	\$212,950
12. Medical College of Georgia Research Institute Grant Potocytosis and Placental Transport Function Vadivel Ganapathy, Principal Investigator	10/01/95 – 09/30/96	\$9,800
13. Veterans Administration Grant The 5-HT Transporter: Function and Expression in Antidepressant Therapy Vadivel Ganapathy, Principal Investigator for a subcontract	09/01/94 – 08/31/97	\$109,200
14. NIH Grant HD 24451 Placental Amino Acid Transport: Molecular Aspects Vadivel Ganapathy, Principal Investigator	12/01/95 – 11/30/98	\$286,322
15. Sigma Tau Pharmaceuticals, Inc. Carnitine Transport in Human Tissue Vadivel Ganapathy, Co-Investigator	09/01/96 – 12/12/99	\$198,201
16. NIH Grant T32 HD 07253 Endocrine and Population Aspects of Reproductive Biology Vadivel Ganapathy, Co-Investigator	07/01/94 – 06/30/99	\$217,233
17. Grant MH 50366 5HT1A Receptor & 5-HTT: Role in Antidepressant Response Vadivel Ganapathy, Co-Investigator	08/01/96 – 07/31/01	\$846,207
18. NIH Grant EY 13089 Protection of Diabetes-Induced Retinopathy by Sigma Ligands Vadivel Ganapathy, Co-Investigator	02/01/00 – 01/31/02	\$200,000
19. NIH Grant DA 10045 Cellular Targets for Abusable Drugs in Human Placenta Vadivel Ganapathy, Principal Investigator	09/01/96 – 08/31/02	\$559,616
20. NIH Grant DA 10045-S1 Cellular Targets for Abusable Drugs in Human Placenta Vadivel Ganapathy, Principal Investigator	09/01/97 – 08/31/02	\$98,994
21. NIH Grant HD 33347 Potocytosis and Placental Transport Function Vadivel Ganapathy, Principal Investigator	09/01/96 – 08/31/02	\$447,261
22. NIH Grant HL 60137 Macrophage-mediated Immunoregulation via Tryptophan Vadivel Ganapathy, Co-Investigator	01/01/99 – 12/31/02	\$713,439

23. NIH-Sponsored RSDP Fellowship Molecular Basis of IUGR in Fetal Alcohol Syndrome Vadivel Ganapathy, Mentor (Mentee, Chandra R. Jones, MD)	07/01/02 – 06/30/04	\$251,000
24. NIH Grant AI 49849 Immune Tolerance: Sigma Receptor as a Therapeutic Target Vadivel Ganapathy, Principal Investigator	08/15/01 – 12/31/04	\$450,000
25. NIH Grant EY 12830 Retinal Pigment Epithelium: Vectorial Transport Function Vadivel Ganapathy, Co-Investigator	09/30/00 – 08/31/05	\$700,000
26. NIH Grant HD 37150 Placental Vitamin Transport: Molecular & Cellular Aspects Vadivel Ganapathy, Co-Investigator	09/01/00 – 06/30/05	\$540,000
27. NIH Grant HL 64196 Carnitine Transporters: Structure, Function & Regulation Vadivel Ganapathy, Principal Investigator	09/15/00 – 07/31/05	\$700,000
28. UNCF/Merck Postdoctoral Fellowship HIV Tat & Pathogenesis of AIDS Dementia Vadivel Ganapathy, Mentor (Mentee, Pamela Martin, PhD)	09/01/04 – 08/31/06	\$70,000
29. NIH Grant P50 HD 44404 Role of OCT3 in Drug Pharmacokinetics During Pregnancy Vadivel Ganapathy, Principal Investigator	09/01/02 – 07/31/07	\$1,047,980
30. NIH Grant EY 14560 Diabetic Retinopathy: σ R1 as a Novel Therapeutic Target Vadivel Ganapathy, Co-Investigator	01/01/04 – 12/31/07	\$900,000
31. NIH Grant GM 65344 Amino Acid Transporter B ^{0,+} : Pharmacology & Therapeutic Use Vadivel Ganapathy, Co-Investigator	04/01/02 – 03/31/08	\$728,000
32. NIH Grant AG 22468 INDYs: A Link Between Membrane Transport and Life Span Vadivel Ganapathy, Principal Investigator	06/01/04 – 05/31/08	\$405,000
33. NIH Grant K08 HD 48867 Placental Carnitine: Role in Fetal Development Vadivel Ganapathy, Mentor (Mentee, Prem Shekhawat, MD)	01/01/05 – 12/31/08	\$625,000
34. NIH Grant (Univ. of Washington) Electrophysiology of PMAT Vadivel Ganapathy, Principal Investigator for a subcontract	08/01/07 – 06/30/09	\$69,180
35. Scientist Training Program from MCGRI HM74/PUMA-G (GPR109) as a Link Between Gut Flora and Intestinal/Colonic Health Vadivel Ganapathy, Mentor (Mentee, Gail Cresci, MS)	07/01/06 – 06/30/09	\$375,000

36. NIH Grant DA 021560 Molecular Analysis of a Novel Opioid Peptide Transporter Vadivel Ganapathy, Principal Investigator	07/01/06 – 06/30/08	\$200,000
37. NIH Grant EY 018053 SMCT1 & SMCT2: Expression in Retina and Relevance to Diabetic Retinopathy Vadivel Ganapathy, Mentor (Mentee, Pamela Martin, PhD)	09/30/07 – 08/31/09	\$674,830
38. DOD Grant BC 074289 SLC5A8-Mediated Switching of STAT3 from a Pro- OncogenicSignal into a Pro-Apoptotic Signal in Breast Cancer Vadivel Ganapathy, Co-Investigator	02/01/08 – 01/31/11	\$300,000
39. HRSA Grant MC 08967 Serotonin in Utero-Placental Unit & Genesis of Postpartum Depression Vadivel Ganapathy, Co-Investigator	02/01/08 – 01/31/11	\$544,179
40. NIH Grant CA 152396 Starve the Tumor Cells to Death: SLC6A14 as a Drug Target for Colon Cancer Vadivel Ganapathy, Principal Investigator	07/01/10 – 06/30/12	\$275,000
41. NIH Grant EY 012380 Analysis of Neural Retina Transport Function Vadivel Ganapathy, Co-Investigator	07/01/07 – 06/30/12	\$1,125,000
42. NIH Grant CA 131402 Tumor-Suppressive Function of SLC5A8 in Mammary Gland and its Relevance to Breast Cancer Vadivel Ganapathy, Co-Investigator	04/15/08 – 03/31/13	\$830,000
43. NIH Grant EY 019672 Retinal Iron Homeostasis in Health and Disease Vadivel Ganapathy, Principal Investigator	03/01/10 – 02/28/14	\$1,050,000
44. NIH Grant DC 003686 Defining antigenic targets of autoimmune Sensorineural hearing loss Subcontract from University of Michigan Vadivel Ganapathy, PI for subcontract	08/12/10 – 07/31/15	\$145,406

CURRENT

Grant	Project Period	Total Budget (Direct Cost)
1. NIH/NCI CA190710 SLC5A8 is a conditional tumor suppressor in colon linked to dietary fiber content Vadivel Ganapathy, Principal Investigator	08/01/15 – 07/31/20	\$ 1,189,780

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| 2. | Abbott Nutrition
Transport mechanisms for 3-hydroxy-3-methylbutyrate in mammalian cells and the regulation of its uptake skeletal muscle cells
Vadivel Ganapathy, Principal Investigator | 06/01/15 – 12/31/18 | \$185,000 |
| 3. | Synergia Biotech
Role of the G-protein-coupled receptor GPR81 in mouse and human vaginal and cervical epithelial cells
Vadivel Ganapathy, Principal Investigator | 10/01/17 – 09/30/18 | \$35,000 |

Teaching Experience

Taught Advanced Enzymology and Amino Acid Metabolism to M.Sc. and Ph.D. students, Hyderabad University, India, 1977-1979

Taught Amino Acid Metabolism to SEEP program students, Medical College of Georgia, Augusta, Ga., 1983, 1984, 1990-2014

Taught Vitamins, Coenzymes and Enzymes to Allied Health students, Medical College of Georgia, Augusta, Ga., 1983

Taught Recent Advances in Intermediary Metabolism to Graduate Students, Medical College of Georgia, Augusta, Ga., 1984, 1987, 1991-2014

Taught an advanced course on Endocrine Pancreas and Gastrointestinal Hormones to Graduate Students, Medical College of Georgia, Augusta, Ga., 1986, 1987, and 1988

Taught Behavioral Neuroscience to Psychiatry Residents, Medical College of Georgia, Augusta, Ga., 1997-2007

Taught Gastrointestinal Physiology to Medical Students, Medical College of Georgia, Augusta, Ga., 1987-2014

Taught Biochemistry (bioenergetics, electron transport and oxidative phosphorylation, TCA cycle, membranes and membrane transport, cytochrome P-450 and biotransformations, oxygen radicals) to Medical Students, Medical College of Georgia, Augusta, Ga., 1993-2014

Taught Regulation of Cellular Metabolism to Graduate Students, Medical College of Georgia, Augusta, Ga., 1988-2014

Taught Biochemistry (bioenergetics, enzymes, electron transport chain, carbohydrate metabolism, and amino acid metabolism) to first-year medical students, Texas Tech University Health Sciences Center, Lubbock, TX., 2015 – present

Taught physiology (biliary secretion, digestion & absorption, vitamins) to first-year medical students, Texas Tech University Health Sciences Center, Lubbock, TX., 2015 – present

Taught bile pigment metabolism and jaundice to second-year medical students, Texas Tech University Health Sciences Center, Lubbock, TX., 2014 – present

Major Advisor for Graduate Students (Ph. D. & M. D./Ph. D.)

Wei Liu, 1993-1996

Viviana Zamorano, 1995-1997

Pankaj Seth, 1996-1999

Xiang Wu, 1997-1999

Ronald George, 1998-2002

Huankai Hu, 2002-2005
Guoliang Jiang, 2002-2005
Naren Gupta, 2002-2005
Senthil Karunakaran, 2004-2010
Jaya Gnana-Prakasam, 2005-2009
Gail Cresci, 2006-2009
Paresh Chothe, 2006-2010
Ashish Gurav, 2010-2014
Bojana Ristic, 2016 -
Mohd Omar Sikder, 2016 -
Timothy Brown, 2017 -

Student Advisory Committee

Daniel F. Balkovetz, Ph.D., Dept. of Cell and Molecular Biology, 1987-1989
David R. Cool, Ph.D. program, Dept. of Cell and Molecular Biology, 1988-1991
Deepak Lala, Ph.D. program, Dept. of Cell and Molecular Biology, 1988-1991
Charles Holsey, M.S. program, Dept. of Cell and Molecular Biology, 1988-1990
Charles Holsey, Ph.D. program, Dept. of Immunology and Microbiology, 1990-1992
Han He, Ph.D. program, Dept. of Physiology and Endocrinology, 1993-1997
Pedro Zamorano, Ph.D. program, Dept. of Physiology and Endocrinology, 1994-1997
Hong Wang, Ph.D. program, Dept. of Biochemistry and Molecular Biology, 1995-1998
Hui W. Li, Ph.D. program, Dept. of Biochemistry and Molecular Biology, 1995-1999
Anna Marie Sanchez, Ph.D. program, Dept. of Biochemistry and Molecular Biology, 1993-1998
Philip George, Ph.D. program, Dept. of Physiology and Endocrinology, 1994-1997
Charisee Lamar, Ph.D. program, Dept. of Physiology and Endocrinology, 1995-1998
Chris Buchanan, Ph.D. program, Dept. of Physiology and Endocrinology, 1997-2000
Russell Timm, Ph.D. program, Dept. of Biochemistry and Molecular Biology, 1997-2002
Christy Chancy, Ph.D. program, Dept. of Cellular Biology and Anatomy, 1997-2000
Jingjiang Nie, Ph.D. program, Dept. of Pharmacology and Toxicology, 1997-2000
Liming Jin, Ph.D. program, Dept. of Pharmacology and Toxicology, 1997-2001
Pamela Moore, Ph.D. program, Dept. of Cellular Biology and Anatomy, 1999-2003
Hany Naggar, Ph.D. program, Dept. of Cellular Biology and Anatomy, 2000-2003
Barbara Mysona, Ph.D. program, Dept. of Cellular Biology and Anatomy, 2003-2008
Lakiea Bailey, Ph.D. program, Molecular Medicine, 2005-2011
Yewei Xing, Ph. D. program, Dept. of Physiology, 2008-2011
Renee Bozard, Ph. D. program, Dept. of Cellular Biology and Anatomy, 2008-2012
Mary Zimmerman, Ph. D. program, Dept. of Biochemistry and Molecular Biology, 2010-2012
Xiaolin Hu, Ph. D. program, Dept. of Biochemistry and Molecular Biology, 2010-2012
Rochelle L. Tiedemann, Dept. Biochemistry and Molecular Biology, 2010-present
Kankana Bardhan, Dept. Biochemistry and Molecular Biology, 2010-2013
Ravi Padia, Dept. of Biochemistry and Molecular Biology, 2010-2014
Rajneesh Pathania, Dept. of Biochemistry and Molecular Biology, 2010-2014

National and International Meetings

Properties of mammalian renal peptide transporter. Second International Meeting on Molecular and

Cellular Regulation of Enzyme Activity, Halle/Saale, GDR, 1986

Characterization and identification of the human placental Na⁺-H⁺ exchanger. The Sixth International Congress on Placental and Endometrial Proteins - Basic and Clinical Aspects, Nagoya, Japan, 1987

Concentrative uptake of lactate in human placental BBMV is energized by a proton gradient. XXXI International Congress of Physiological Sciences, Helsinki, Finland, 1989

Use of human choriocarcinoma cells to investigate placental transport. International Conference on Placenta, Tokyo, Japan, 1990

Placental transport and metabolism of monoamines. IVth Meeting of the European Placenta Group-Joint Meeting with the Rochester Trophoblast Conference, Gwatt, Switzerland, 1991

Serotonin transporters: Biochemical and pharmacological characteristics. Conference on Serotonin Pharmacology, sponsored by International Business Communications USA Inc., Philadelphia, USA, 1991

Potential interactions of cocaine with neuronal, platelet and placental serotonin transporters. Biogenic amine transporters biology workshop: basic principles, organized by Alcohol, Drug Abuse and Mental Health Administration, Rockville, MD, 1992

Second messenger-mediated regulation of the expression and function of placental transporters. Vth Meeting of the European Placenta Group, Manchester, United Kingdom, 1993

Molecular cloning, expression, chromosomal localization, and regulation of the human placental taurine transporter. Annual meeting of the Chilean Physiological Society, Concepcion, Chile, 1994

Expression of cocaine target proteins in human placenta. XVIth International Congress on Biochemistry, New Delhi, India, 1995

Molecular nature of the folate receptor and the folate transporter in the human placental trophoblast. Symposium on Membrane Transport and Polyglutamylation of Folates and Antifolates, Airlie, VA, 1995

Monoamine transporters in human placenta and their relevance to the detrimental effects of abusable drugs on pregnancy. XIIIth Rochester Trophoblast Conference, Banff, Canada, 1996

Molecular and regulatory aspects of the amino acid transporter B⁰. Frontiers in Biology and Biotechnology, Vellore, India, 1997

Amino acid transport and Hartnup disease. XVth Annual Workshop of the GRTM, University of Montreal, Montreal, Quebec, Canada, 1997

Cloning and functional characterization of a system B⁰-like amino acid transporter. Vth International Congress on Amino Acids, Chalkidiki, Greece, 1997

Cloning and functional expression of a potential-sensitive organic cation transporter (OCT3) from kidney. 3rd European Kidney Research Forum, Manchester, England, 1998

Cloning, function expression, and tissue distribution of organic cation transporters. Gordon Conference on Membrane Transport Proteins Frontiers, Tilton, NH, 1998

Cloning of a new organic cation transport hOCTN2 from a human placental trophoblast cell line. 4th Conference of the International Federation of Placental Associations, Tokyo, Japan, 1998

Physiological and pharmacological functions of the organic cation/carnitine transporter. FASEB Summer Research Conference on Transport of Amino Acids, Peptide and Neurotransmitters, Copper Mountain, Colorado, 1999

Molecular biology of transport systems for neutral amino acids. 6th International Congress on Amino Acids, Bonn, Germany, 1999

Interaction of pharmacologically active drugs with OCTN2, an organic cation/carnitine transporter. 6th International Congress on Amino Acids, Bonn, Germany, 1999

The organic cation/carnitine transporter: A potential candidate for drug delivery. Pharma Conference

99 on Membrane Transporters: New Perspectives in Drug Delivery and Drug Targeting, Monte Verita, Ascona, Switzerland, 1999

Structure and function of transporters for water-soluble vitamins. The Rank Prize Funds Symposium on Nutrient Transport, Grasmere, England, 2001

Amino acid transporter B^{0,+}: Physiological functions and therapeutic potential. FASEB Summer Conference on "New Perspectives in Transporter Biology," Tucson, AZ, 2001

Pharmacology and Therapeutic potential of amino acid transporter ATB^{0,+}. Pharma Conference on "Membrane Transporters: From Identification to Drug Discovery," Interlaken, Switzerland, 2001

Influence of HIV-1 TAT expression on amino acid transporters and drug transporters in mammalian cells. International Symposium on Membrane Transport and Transporters. Kloster Seeon, Germany, 2002

Placental transporters relevant to drug disposition at the maternal-fetal interface. Special lecture at the Annual Meeting of the Japanese Society for the Study of Xenobiotics, Sapporo, Japan, 2003

Monoamine transporters and their function in human placenta. Invited lecture at the NIDA-sponsored workshop on "Placental Proteins, Drug Transport, and Fetal Development," Washington, D.C., 2003

Transporters for peptides and amino acids and their roles in the handling of pharmacological agents in different organs. Invited lecture at the NIDA-sponsored workshop on "Drug Metabolism: Role of Pharmacogenomics, Transporters, and Drug/Drug Interactions," Washington, D.C., 2003

Influx transporters in human placenta. Invited lecture at the AAPS-sponsored workshop on "Pharmacokinetics and Pharmacodynamics of Drugs in Pregnant and Lactating Women: Issues and Challenges," Washington, D.C., 2004

Placental transporters. Invited lecture at the Precongress Symposium on "Drug transport across placenta," Tampere, Finland, 2004

Placental transporters relevant to drug disposition across the maternal-fetal interface. Invited lecture at the 10th International Congress of Toxicology, Tampere, Finland, 2004

Functional identity of SLC5A8, a candidate tumor suppressor gene, as a sodium-coupled transporter for short-chain fatty acids. Invited lecture at Transporters 2004: International symposium on membrane transport and transporters, Cambridge, United Kingdom, 2004

Mechanism of N-acetylaspartate transport. Invited lecture at the First International Symposium on N-acetylaspartate, Bethesda, MD, 2004

Functional identity of SLC5A8, the first transporter to be recognized as a tumor suppressor. Invited lecture at the 2005 FASEB Summer Research Conference, "Perspectives in Transporter Biology", Saxtons River, VT, 2005

ATB^{0,+}, an amino acid transporter, as a delivery system for drugs and prodrugs. Invited lecture at the 2005 AAPS Annual Meeting, Nashville, TN, 2005

SLC5A8 as a Na-coupled transporter for short-chain fatty acids. Invited lecture at the Fourth CMC Winter Symposium, "Molecular Insights into Digestive Disorders", Vellore, India, 2005

(incomplete)

Abstracts (Incomplete)

1. Hellier, M.D., **GANAPATHY, V.**, Radhakrishnan, A.N., and Baker, S.J. (1975) A comparative study of intestinal absorption in normal Indian and English subjects using a perfusion technique. **Gut** 16: 844.
2. Hellier, M.D., Radhakrishnan, A.N., **GANAPATHY, V.**, and Baker, S.J. (1976) Mucosal uptake of amino acids and dipeptide - a shared transport system or not? **Gut** 17: 818.
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