

CURRICULUM VITAE

RAMAN VENKATARAMANAN, Ph.D ; F.C.P.
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I. GENERAL INFORMATION

A. Educational Background:

University of British Columbia, Vancouver, British Columbia, Canada	Ph.D., 1979 Biopharmaceutics and Pharmacokinetics
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Birla Institute of Technology and Science Pilani, India	Master of Pharmacy, 1974, Pharmaceutics (Physical Pharmacy)
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Madras Medical College University of Madras Madras, India	Bachelor of Pharmacy, 1972
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B. Employment Record:

University of Pittsburgh Cancer Institute University of Pittsburgh	Professor – since 2004
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Department of Pharmacy and Therapeutics University of Pittsburgh	Professor - since 1991
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McGowern Institute of Regenerative Medicine University of Pittsburgh	Professor – since 2001
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K.J. Post Graduate Education and Research Foundation Madras, India	Adjunct Professor December 1994
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University of Pittsburgh Center for Clinical Pharmacology	Professor – since 1995
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University of Pittsburgh Dept. of Pathology Thomas E. Starzl	Professor – since 1993
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Transplant Institute	Member - since 1984
University of Pittsburgh School of Pharmacy, Dept. of Pharmaceutical Sciences	Professor since April 1991 Associate Professor, Tenured July 1986-March 1991 Assistant Professor, July 1980 - June 1986
University of Washington School of Pharmacy	Research Associate with Dr. Milo Gibaldi Oct. 1978 - June 1980
Stanley Hospital Madras, India	Hospital training for three months 1971-1972

C. Awards and Distinctions:

1. Undergraduate:

Bashyam Memorial Prize for Best Outgoing Pharmacy Student, University of Madras, B. Pharm. 1972

National Merit Scholarship, Government of India, During Pre-University and Bachelor of Pharmacy 1967-72

Best Outgoing Student, SRM High School, Madras, S.S.L.C. 1967

2. Graduate:

Canadian Heart Foundation Fellowship, Canadian Heart Foundation, Ph.D. 1978-79

British Columbia Heart Foundation Fellowship, British Columbia Heart Foundation, Ph.D. 1977-78

U.B.C. Graduate Fellowship, U.B.C., Ph.D. 1975-77

Summer Session Research Scholarship, U.B.C., Master of Pharmacy 1975

Graduate Student Teaching Assistantship, U.B.C., Master of Pharmacy, Ph.D. 1974-75

Stanley Drug Product - Novo Group Scholarship, Stanley Drug Products - Novo Group, Master of Pharmacy 1974-75

University Grants Commission Junior Fellowship, University Grants Commission, Master of Pharmacy 1972-74

3. Faculty:

a. Alberta Heritage Foundation - Visiting Scientist - at the University of Alberta at Edmonton, Alberta 1985

b. Medical Research Council, Canada - Special Visiting Scientist - at University of British Columbia, Vancouver, B.C. Canada 1990

c. Fellow of the American College of Clinical Pharmacology, since 1989

- d. Visiting Scientist, K .J. Hospital Madras, India December 1994-May 1995.
- e. Orator – SLANT - First scientific session of the Sri Lanka Association of Nephrology and Transplantation May 1995.
- f. Fellow of the American Association of Pharmaceutical Scientists- October 1996.
- g. Distinguished Research Scientist Award. The Insitute of Kidney Diseases and Research center and the Institute of Transplantation, Ahmadabad, India, January 1998.
- h. Ranbaxy Research Award in Pharmceutical Sciences 1997-1998, Awarded by Ranbaxy Limited India. Awarded in October 1998
- i. University of Pittsburgh Rho Chi Society Award – Outstanding scholarly contribution award March 2007

Nominated for:

- a. **University of Pittsburgh Provost’s Mentor of the year Award nominee 2005-2006; 2006-2007; 2007-2008 (Nominated by Anil D’Mello – former graduate student; currently professor at Philadelphia College of Pharmacy in Philadelphia; nominated by Bernie Komoroski – former graduate student; currently research scientist at BMS).**
- b. AAPS PPDM Research Achievement Award nominee – October 2006
(Nominated by Patricia Kroboth – Dean School of Pharmacy)
- c. **AAPS CPTR Research Achievement Award nominee – October 2007**
(Nominated by Ken Bauer, Associate Professor, University of Maryland)

II. TEACHING (COURSES TAUGHT):

Course # and Title

University of Pittsburgh School of Pharmacy

Undergraduate Courses Taught:

Biopharmaceutics and Pharmacokinetics 131
Physical Pharmacy 130
Dosage Form Design 121
Special Topics in Pharmaceutics 179
Pharmacy Mathematics 120

Drug development 2-Biopharmaceutics and Pharmacokinetics – 4 credits
2007 Fall: Taught approximately 40-45% of the content – 113
students

Research Rotations for P-4 students – several years
2007-2008: Fall: Dustin Walsch

Research Rotations for P-4 students – several years
2007-2008: Spring: Brandy Pinkatore

APC -2 PBL session Facilitator:
2008 Spring – Diabetes case

Maria's elective course – 1 lecture Fall 2004, 2005, 2006, 2007 – Herb Drug
Interactions
2007 Fall: 1 lecture

Graduate Courses:

Chemical Kinetics and Drug Stability 301
Advanced Physical Pharmacy 302
Special Topics in Pharmaceutics 179
Advanced Biopharmaceutics and Clinical Pharmacokinetics 200
Pharmaceutics 325/326
Advanced Drug Analysis

Advanced Pharmacokinetics 3002 (Coordinator)-every alternate year – 4
CREDITS
2007-2008: Spring for 11 students (taught approximately 70%)

Topics in Biopharmaceutics and pharmacokinetics 3027 (every Fall and
Spring) (100%) 1 credit
2007-2008: FALL 10 students

2007-2008: Spring 5 students

Graduate Research Rotation 3063 (Fall and Spring-100%) 3 credits

2007-2008: Fall: (Coordinator) – 7 students; supervised 1 student: Mohammed

2007-2008 Spring: (coordinator) -7 students; supervised 1 student:

Bhasha

Teach Me To Teach You – 3043: Fall 2006, Fall 2007 1 credit (course coordinator -100%)

2007-2008: Eight students

MS Thesis 2010:

2007-2008: Fall: 1 student – Asish Sharma

2007-2008: Spring: 1 student: Asish Sharma

Ph.D. Dissertation: 3010:

2007-2008: Fall: 1 student

2007-2008: Spring: 2 students

GEARUP program 2005, 2006, 2007 (February and December)

2007-2008: Marilyn Torch summer 2007 (T-32)

Others in Health Sciences, University of Pittsburgh:

Health Related Profession and Critical Care Division:
Pharmacokinetics Principles; Therapeutic Drug Monitoring
Clinical Research Training Program Mentor - 2004-2005

Cell Transplantation -2004, 2005, 2006, 2007, 2008

2007-2008: Three lectures (4.5 hrs)

University of British Columbia, Vancouver, Canada

Undergraduate Courses:
Physical Pharmacy Laboratory
Biopharmaceutics Laboratory

Birla Institute of Technology and Science, Pilani, India

Undergraduate Courses:
Pharmaceutical Microbiology Laboratory
Pharmaceutical Analysis Laboratory

West Virginia School of Pharmacy:

Undergraduate Courses:
Pharmacokinetics 203(West Virginia School of Pharmacy) - 1998

Others (General):

- a. During the years 1983-1987, I have been responsible for conducting weekly journal club meetings for graduate students in Pharmaceutics. During the years 1990-current in charge of conducting journal club sessions in the Clinical Pharmacokinetics group. These meetings have attracted graduate students and faculty from other departments and have contributed significantly to the growth of our graduate program.

- b. Coordinated Informal Exchange of Information Session.
 1. Development of a new drug from a chemical - 1989-90
 2. Academic Integrity - 1989-90
 3. Phase I, II, III & IV in Drug Development - 1989-90
 4. Research integrity & conflict of interest - 1990-91

III. RESEARCH AND SCHOLARLY ACTIVITIES

A. Publications:

1974:

1. Venkataramanan, R. "Drug Action-Planar Aspects". J Pharm Soc Pilani 12:27-29 (1974).

1978:

2. Venkataramanan, R. and Axelson, J.E. "An Electron Capture Detector Gas Chromatographic Technique for the Estimation of Tocainide in Biological Fluids". J Pharm Sci. 67:201-205 (1978).

1980:

3. Venkataramanan, R. and Axelson, J.E. "Dose Dependent Pharmacokinetics of Tocainide in the Rat". J Pharmacol Exp. Ther 215:231-234 (1980).
4. Venkataramanan, R. and Axelson, J.E. "The Effect of Phenobarbital and SKF 525A on Tocainide in the Rat". J Pharmacol Exp Ther 215:235-239 (1980).

1981:

5. Venkataramanan, R. and Axelson, J.E. "3-(2,6 xylyl)-5 Methyl Hydantoin - A Metabolite or a Metabonate of Tocainide in Rats?" Xenobiotica 11:259-265 (1981).

1982:

6. Venkataramanan, R. and Axelson, M. "Metabolism of Tocainide in the Rat". J Pharm Sci 71:491-494 (1982).
7. Patel, I.H., Venkataramanan, R., Levy, R.H., Vishwanathan, C.T. and Ojermann, L.M. "Diurnal Oscillations in the Plasma Protein Binding of Valproic Acid and Phenytoin". Epilepsia 23:283-290 (1982).

1984:

8. Kunka, R.L., Venkataramanan, R., Stern, R.M. and Ladik, C.F. "Excretion of Propoxyphene and Norpropoxyphene into Breast Milk". Clin Pharmacol Ther 35:675-680 (1984).
9. Venkataramanan, R., Ptachcinski, R.J., Burckart, G.J., Yang, S.L., Starzl, T.E. and Van Thiel, D.H. "The Clearance of Cyclosporine by Hemodialysis". J Clin Pharmacol 24:528-531 (1984).
10. Burckart, G.J., Venkataramanan, R. and Ptachcinski, R.J. "Response to Usefulness of Cyclosporine Monitoring Questioned" - Letter. Clin Pharmacy 3:243 (1984).

1985:

11. Ptachcinski, R.J., Venkataramanan, R. and Burckart, G.J. "Cyclosporine - A Review". Drug Intel Clin Pharm 19:90-100 (1985).
12. Venkataramanan, R., Ptachcinski, R.J., Burckart, G.J., Yang, S.L. and Starzl, T.E. "Extraction Ratio of Cyclosporine". J Pharm Sci 74:901-902 (1985).
13. Howrie, D.L., Ptachcinski, R.J., Griffith, B., Hardesty, R.L., Rosenthal, J.T., Burckart, G.J. and Venkataramanan, R. "Cyclosporine - Associated Anaphylactoid Reactions: Possible Role of Cremophor EL". Drug Intel Clin Pharm 19:425-427 (1985).

14. Venkataramanan, R., Starzl, T.E., Yang, S., Burckart, G.J., Ptachcinski, R.J., Shaw, B.W., Iwatsuki, S., Van Thiel, D.H., Sanghvi, A. and Seltman, H. "Biliary Excretion of Cyclosporine in Liver Transplant Patients". Transplant Proc 27:286-289 (1985).
15. Burckart, G.J., Starzl, T., Williams, L., Sanghvi, A., Gartner, C., Venkataramanan, R., Zitelli, B., Malatack, J., Urbach, A., Diven, W., Ptachcinski, R., Shaw, B. and Iwatsuki, S. "Cyclosporine Monitoring and Pharmacokinetics in Pediatric Liver Transplant Patients". Transplant Proc 27:1172-1175 (1985).
16. Ptachcinski, R.J., Venkataramanan, R., Rosenthal, J.T., Taylor, R.J. and Hakala, T.R. "The Effect of Food on the Absorption of Cyclosporine". Transplant 40:174-176 (1985).
17. Ptachcinski, R.J., Gray, J., Venkataramanan, R., Burckart, G.J., Van Thiel, D.H. and Rosenthal, J.T. "Cyclosporine Associated Anaphylaxis - Additional Precautions". Lancet 1:636-637 (1985).
18. Ptachcinski, R.J., Venkataramanan, R., Rosenthal, J.T., Burckart, G.J., Taylor, R. and Hakala, T. "Cyclosporine Pharmacokinetics in Renal Transplant Patients". Clin Pharmacol Ther 38:296-300 (1985).
19. Burckart G, Venkataramanan R, Ptachcinski R. Cyclosporine Monitoring. American Association of Clinical Chemistry. 6: 1-11, 1985.

1986:

20. Stoehr, G.P., Venkataramanan, R. and Dauber, J.H. "Comparison of Methods for Determining Unbound Theophylline Concentrations". Therap Drug Mon 8:42-46 (1986).
21. Ptachcinski, R.J., Venkataramanan, R. and Burckart, G.J. "The Clinical Pharmacokinetics of Cyclosporine". Clin Pharmacokin 11:107-132 (1986).
22. Ptachcinski, R.J., Hakala, T.R., Schleicher, C., Rosenthal, J.T., Taylor, R.J., Carpenter, B., Burckart, G.J., Venkataramanan, R. and Zheng, S. "Cyclosporine (CyA) in Cadaveric Renal Transplantation: Analysis of Three Administration Regimens". Transplant Proc 18: 789-790 (1986).
23. Ptachcinski, R.J., Burckart, G.J., Rosenthal, J.T., Venkataramanan, R., Howrie, D.L., Taylor, R.J., Avner, E.D., Ellis, D. and Hakala, T.R. "Cyclosporine (CyA) Pharmacokinetics in Children Following Cadaveric Renal Transplantation". Transplant Proc 18: 766-767 (1986).
24. Zaghoul, I., Burckart, G.J., Starzl, T.E., Todo, S., Ptachcinski, R.J. and Venkataramanan, R. "Cyclosporine G Analysis and Monitoring by High Pressure Liquid Chromatography". Transplant Proc 18: 771-773 (1986).
25. Venkataramanan, R., Burckart, G.J., Ptachcinski, R.J., Lee, A., Hardesty, R.L. and Griffith, B.P. "Cyclosporine Pharmacokinetics in Heart Transplant Patients". Transplant Proc 18: 768-770 (1986).
26. Todo, S., Porter, K.A., Kam, I., Lynch, S., Venkataramanan, R., DeWolf, A. and Starzl, T.E. "Canine Liver Transplantation under Nva²-Cyclosporine versus Cyclosporine". Transplant 41:296-300 (1986).

27. Huang, M.L., Burckart, G.J. and Venkataramanan, R. "Sensitive high-performance Liquid Chromatographic Analysis of Vitamin E and Vitamin A Using Amperometric and Ultraviolet Detection". J. Chrom 380: 331-338 (1986).
28. Mehta, M.U., Venkataramanan, R., Burckart, G.J., Ptachcinski, R.J., Yang, S.L., Gray, J.A. and Van Thiel, D.H. "Antipyrine Kinetics in Liver Disease and Transplantation". Clin Pharmacol Therap 39:372-377 (1986).
29. Ptachcinski, R.J., Logue, L.W., Burckart, G.J. and Venkataramanan, R. "Stability and Availability of Cyclosporine 5% Dextrose Injection or 0.9% Sodium Chloride Injection". Am J Hosp Pharm 43:94-97 (1986).
30. Venkataramanan, R., Yang, S., Burckart, G.J., Ptachcinski, R.J., Van Thiel, D.H. and Starzl, T.E. "Diurnal Variation in Cyclosporine Kinetics". Therap Drug Monit 8: 380-381 (1986).
31. Burckart, G.J., Venkataramanan, R., Ptachcinski, R.J., Starzl, T.E., Gartner, C.J., Zitelli, B.J., Malatack, J.J., Shaw, B.W., Iwatsuki, S. and Van Thiel, D.H. "Cyclosporine Absorption following Orthotopic Liver Transplantation". J Clin Pharmacol 26:647-651 (1986).
32. Ptachcinski, R.J., Carpenter, B.J., Burckart, G.J., Venkataramanan, R. and Rosenthal, J.T. "Cyclosporine - Erythromycin interaction". NEJM 313:1416-1417 (1986).
33. Ptachcinski, R.J., Walker, S., Burckart, G.J. and Venkataramanan, R. "Stability and Availability of Cyclosporine Stored in Plastic Syringes". Am J Hosp Pharm 43:692-694 (1986).
34. D'Souza, M., Venkataramanan, R., D'Mello, A. and Niphadkar, R. "An Alternative Pro-drug Approach for Reducing Pre-systemic Metabolism of Drugs". Inter J. Pharmaceutics 31: 165-167 (1986).
35. Ptachcinski, R.J., Burckart, G.J. and Venkataramanan, R. "Cyclosporine Concentration Determinations for Monitoring and Pharmacokinetic Studies" - Commentary. J Clin Pharmacol 26:358-366 (1986).
36. Venkataramanan, R., Perez, H.D., Schwinghammer, T., Burckart, G.J., Ptachcinski, R.J., Van Thiel, D.H. and Starzl, T.E. "Effect of Bile on Cyclosporine Absorption in Dogs". Res Comm Chem Pathol. Pharmacol. 53: 137-140 (1986).
37. Venkataramanan, R., Burckart, G.J., Ptachcinski, R.J., Blaha, R., Logue, L.W., Bahnson, A., Giam, C.S. and Brady, J. "Leaching of Diethylhexyl Phthalate from Polyvinyl Chloride Bags into Intravenous Cyclosporine Solution". Am J Hosp Pharm 43: 2800-2802 (1986).
38. Burckart, G.J., Ptachcinski, R.J., Venkataramanan, R., Iwatsuki, S., Esquivel, C., Van Thiel, D.H. and Starzl, T.E. "Cyclosporine Trough Concentration Monitoring in Liver Transplant Patients". Transplant Proc 18:188-193 (1986).
39. Burckart, G.J., Venkataramanan, R., Ptachcinski, R.J., Starzl, T.E., Griffith, B.P., Hakala, T.R., Rosenthal, J.T., Hardesty, R.L., Iwatsuki, S., Brady, J. and Van Thiel, D.H. "Cyclosporine Pharmacokinetic Profiles in Liver, Heart, and Kidney Transplant Patients as Determined by HPLC". Transplant Proc 18:129-136 (1986).

40. Burckart, G.J., Starzl, T.E., Venkataramanan, R., Hashim, H., Wong, L., Wang, P., Makowka, L., Zeevi, A., Ptachcinski, R.J., Knapp, J.E., Iwatsuki, S., Esquivel, C., Sanghvi, A. and Van Thiel, D.H. "Excretion of Cyclosporine and Its Metabolites in Human Bile". Transplant Proc 18:46-49 (1986).
41. Makowka, L., Svanas, G., Esquivel, C., Venkataramanan, R., Todo, S., Iwatsuki, I., Van Thiel, D. and Starzl, T.E. "Effect of Cyclosporine on Hepatic Regeneration". Surgical Forum 37:352-354 (1986).

1987:

42. Ptachcinski, R.J., Venkataramanan, R., Burckart, G.J., Gray, J.A., Van Thiel, D.H., Sanghvi, A., Rosenthal, J.T. "Cyclosporine Kinetics in Healthy Volunteers". J Clin Pharmacol 27:243-248 (1987).
43. Venkataramanan, R., Todo, S., Zaghoul, I., Lynch, S., Kam, I., Ptachcinski, R.J., Burckart, G.J. and Starzl, T.E. "Comparative Pharmacokinetics of Cyclosporine and NVa²-Cyclosporine in Dogs". Transplant Proc 19:1265-1266 (1987).
44. Takaya, S., Zaghoul, I., Iwatsuki, S., Starzl, T.E., Noguchi, T., Ohmori, Y., Burckart, G.J., Ptachcinski, R.J. and Venkataramanan, R. "Effect of Liver Dysfunction on Cyclosporine Pharmacokinetics". Transplant Proc 19:1246-1247 (1987).
45. Ericzon, B.G., Todo, S., Lynch, S., Kam, I., Ptachcinski, R.J., Burckart, G.J., Van Thiel, D.H., Starzl, T.E. and Venkataramanan, R. "Role of Bile and Bile Salts on Cyclosporine Absorption in Dogs". Transplant Proc 19:1248-1249 (1987).
46. Ptachcinski, R.J., Hakala, T.R., Rosenthal, J.T., Venkataramanan, R., Burckart, G.J., Taylor, R.J. and Carpenter, B.J. "Cyclosporine - High Dose Steroid Interaction in Renal Transplant Recipients: Assessment by HPLC". Transplant Proc 19:1728-1729 (1987).
47. Burckart, G.J., Fricker, F.J., Venkataramanan, R., Ptachcinski, R.J., Hardesty, R.A., Trento, A., Howrie, D. and Griffith, B.P. "Cyclosporine Kinetics in Pediatric Patients with Congestive Heart Failure". Transplant Proc 19:1528-1529 (1987).
48. Zaghoul, I., Ptachcinski, R.J., Burckart, G.J., Van Thiel, D.H., Starzl, T.E. and Venkataramanan, R. "Blood Protein Binding of Cyclosporine in Transplant Patients". J Clin Pharmacol 27:240-242 (1987).
49. Burckart, G.J., Ptachcinski, R.J., Jones, D.H., Howrie, D.L., Venkataramanan, R. and Starzl, T.E. "Impaired Clearance of Ceftizoxime and Cefotaxime after Orthotopic Liver Transplantation". Antimicro Agents and Chemother 31:323-324 (1987).
50. Burckart, G.J., Wang, C.P., Venkataramanan, R. and Ptachcinski, R.J. "Cyclosporine Metabolites". Transplantation 43:932 (1987).
51. Venkataramanan, R.V., Warty, V.S., Zemaitis, M.A., Sanghvi, A.J., Burckart, G.J., Todo, S., Makowka, L. and Starzl, T.E. "Biopharmaceutical Aspects of FR 900506". Transplant Proc 19:30-35 (1987).

52. Bowers, L., Demers, L., Freeman D., Moyer T., Sanghvi, A., Seltman, H., Shaw, L.M., Venkataramanan, R. "Critical Issues in Cyclosporine Monitoring: Report of the Task Force on Cyclosporine Monitoring". Clin Chem 33/7:1269-1288 (1987).
53. D'Souza, M.J., Zemaitis, M.A., Burckart, G.J. and Venkataramanan, R. "Simple High-Performance Liquid Chromatographic Method for Simultaneous Determination of Aminopyrine and Its Metabolites". J Chrom 421: 198-205 (1987).

1988:

54. Burckart, G.J., Wang, C.P., Zeevi, A., Venkataramanan, R., Ptachcinski, R.J., Hashem, H., Wong, L., Makowka, L. and Starzl, T.E. "Cyclosporine Metabolites in Human Bile: Recovery and Immunologic Activity". Transplant Proc 20:190-192 (1988).
55. Hashem, H., Venkataramanan, R., Burckart, G., Starzl, T. and Wong, L. "Identification of Aldehydic Metabolites of Cyclosporine in Human Bile". Transplant Proc 20:176-178 (1988).
56. Habucky, K., Venkataramanan, R., Ptachcinski, R.J. and Burckart, G.J. "Effect of Chronic Therapy on Absorption and Disposition of Cyclosporine". Transplant Proc 20:162-163 (1988).
57. Wang, C.P., Burckart, G.J., Venkataramanan, R., Ptachcinski, R.J., Cuellar, R.E., Makowka, L. and Starzl, T.E. "Cyclosporine Metabolite Profiles in the Blood of Liver Transplant Patients". Transplant Proc 20:173-175 (1988).
58. Venkataramanan, R., Wang, C.P., Burckart, G., Ptachcinski, R., Todo, S., Koneru, B. and Starzl, T. "Species-specific Cyclosporine Metabolism". Transplant Proc 20:680-683 (1988).
59. Wang, C.P., Burckart, G., Ptachcinski, R., Venkataramanan, R., Schwinghammer, T., Hakala, T., Griffith, B., Hardesty, R., Shaddock, R. and Starzl, T. "Cyclosporine Metabolite Concentrations in Blood in Renal, Liver, Heart, and Bone Marrow Transplant Patients". Transplant Proc 20:591-596 (1988).
60. Zeevi, A., Eiras, G., Burckart, G., Makowka, L., Venkataramanan, R., Wang, C.P., Van Thiel, D.H., Murase, N., Starzl, T.E. and Duquesnoy, R. "Immunosuppressive Effect of Cyclosporine Metabolites from Human Bile on Alloreactive T Cells". Transplant Proc 20:115-121 (1988).
61. Zeevi, A., Venkataramanan, R., Burckart, G., Wang, P., Murase, N., Van Thiel, D.H., Makowka, L., Duquesnoy, R.J. and Starzl, T.E. "Sensitivity of Activated Human Lymphocytes to Cyclosporine and Its Metabolite". Hum Immun 21:143-153 (1988).
62. Takaya, S., Iwatsuki, S., Starzl, T.E., Zaghoul, I., Noguchi, T., Ohmori, Y., Burckart, G.J., Ptachcinski, R.J. and Venkataramanan, R. "Experimental Study About the Influence of Liver Dysfunction upon Cyclosporine Pharmacokinetics". Trans Proc 20:154-156 (1988).
63. Mehta, M.U., Venkataramanan, R., Burckart, G.J., Ptachcinski, R.J., Delamos, B., Stachak, S., Van Thiel, D.H., Iwatsuki, S. and Starzl, T.E. "Effect of Bile on Cyclosporine Absorption in Liver Transplant Patients". Br J Clin Pharmac 25: 579-584 (1988).

64. Huang, M-L., Venkataramanan, R., Burckart, G.J., Ptachcinski, R.J., Van Thiel, D.H. and Starzl, T.E. "Drug Binding Proteins in Liver Transplant Patients". J Clin Pharmacol 28:505-506, 1988.
65. Caritis, S.N., Lin, L.S., Venkataramanan, R. and Wong, L.K. "Effect of Pregnancy on Ritodrine Pharmacokinetics". Am J Obstet Gynecol 159:328-332, 1988.
66. Wang, C.P., Burckart, G.J. and Venkataramanan, R. "Separation of Cyclosporine Metabolites: Evaluation of High Pressure Liquid Chromatographic Column Performance". Ther Drug Monit 1988; (10) (3):306-309.
67. Todo, S., Ueda, Y., Demetris, J.A., Imventarza, O., Nalesnik, M., Venkataramanan, R., Makowka, L. and Starzl, T.E. "Immunosuppression of Canine, Monkey, and Baboon Allografts by FK 506: With Special Reference to Synergism with Other Drugs, and to Tolerance Induction." Surgery 104:239-249 (1988).
68. Venkataramanan, R., Koneru, B., Wang, C-C.P., Burckart, G.J., Caritis, S.N. and Starzl, T.E. "Cyclosporine and Its Metabolites in Mother and Baby". Transplantation. 46:468-469, 1988.

1989:

69. Todo, S., Podesta, L., Ueda, Y., Imventarza, O., Casavilla, A., Oks, A., Okuda, K., Nalesnik, M., Venkataramanan, R., and Starzl, T.E. "A Comparison of UW with Other Solutions for Liver Preservation in Dogs". Clin Transplant 3:253-259, 1989.
70. Venkataramanan, R., Huang, M.L., Delamos, B., Burckart, G.J., Ptachcinski, R.J., Van Thiel, D.H. and Starzl, T.E. "Steroid Metabolism in Liver Transplant Patients". Transplant Proc 21:2452, 1989.
71. Venkataramanan, R., Kalp, K., Rabinovitch, M., Cuellar, R., Ptachcinski, R.J., Teperman, L., Makowka, L., Burckart, G.J., Van Thiel, D.H. and Starzl, T.E. "Conjugative Drug Metabolism in Liver Transplant Patients". Transplant Proc 21:2454, 1989.
72. Todo, S., Tzakis, A., Nery, J., Yanaga, K., Venkataramanan, R., Podesta, L., Miele, L., Scantlebury, V., Gordon, R., Makowka, L., Stieber, A., Koneru, B., Marsh, W., Iwatsuki, S. and Starzl, T.E. "Extended Preservation of Human Liver Grafts with U.W. Solution". JAMA 261:711-714, 1989.
73. Starzl, T.E., Rowe, M., Todo, S., Jaffe, R., Tzakis, A., Hoffman, A.L., Esquivel, C., Porter, K.A., Venkataramanan, R., Makowka, L., and Duquesnoy, R. "Transplantation of Multiple Abdominal Viscera". JAMA 261:1449-1457, 1989.
74. Venkataramanan, R., Habucky, K., Burckart, G.J. and Ptachcinski, R.J. "Clinical Pharmacokinetics of Organ Transplant Patients". Clin Pharmacokin 16:134-161, 1989.
75. Caritis, S.N., Venkataramanan, R., Cotroneo, M. and Chiao, J.-P. "Pharmacokinetics of Orally Administered Ritodrine". Am J Obstet Gynecol 161:32-35, 1989.

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132. Patil SD, Venkataramanan R, Frank P, Xu Z. The effect of Ritonavir, Indinavir, Nelfinavir and Delaviridin on the in vitro metabolism of (+) calonilide A. Presented at AAPS to be held in New Orleans, November 1999.
133. Strom SC, Kostubsky VE, Ramachandran V, Venkataramanan R, Dorko, K and Esplen JE: Isolation and cryopreservation of human hepatocytes for clinical transplantation. Presented at the American Association of Study of Liver Disease at Dallas, TX, November 1999.
134. Kostubsky VE, Ramachandran V, Venkataramanan R, Wen M, Rose K, Sinz M and Strom SC: Troglitazone toxicity in primary cultures of human hepatocytes. Presented at the 39th Annual Meeting of the Society of Toxicology, Philadelphia, PA, March 2000.
135. Ramachandran V, Komoroski BJ, Kostubsky VE, Fisher MB, Wrighton WA, Strom SC and Venkataramanan R: Modulation of glucuronidation by UDPGA in human hepatocyte cultures. Presented at the ASBMB/ASPET 2000, Boston, MA, June 2000. Abstracted in FASEB J 2000 14(8), A1445.

136. Sindhi R, Jaskowski S, Venkataramanan R, Iurlano K, Baird C, Smith A, McGhee W, Mazareigos G, Fung J and Reyes J. Rapamycin rescue in pediatric liver recipients with tacrolimus (TAC) toxicity. Presented at AST. May 14, 2000.
137. Sindhi R, Agarwala S, Venkataramanan R, McGhee W, Reyes J, Zeevi A. Rapamycin rescue in pediatric liver recipients with Tacrolimus toxicity. A preliminary effect : concentration analysis. Presented at AST. May 14, 2000.
138. Mamun A, Venkataramanan R, Logar AJ, Rao AS, Griffith B, Keenan R, Stanton D, Shapiro R, Fung JJ, Zeevi A. Quantitation of immunosuppression by FK506 using flow cytometric analysis of IL-2 and INF- γ inhibition in peripheral blood T-cells. Presented at AST. May 14, 2000.
139. Venkataramanan R Ramachandran V, Komoroski B, Zhang S, Strom S. Milk Thistle, a Herbal Product, decreases the activity of drug metabolizing enzymes in primary cultures of human hepatocytes. Presented at the Gordon Research Conference, Holderness School , NH. July 2000
140. Sindhi R , Venkataramanan R, Webber S, McGhee W, Mazareigos G, Fung J and Reyes J. Rapamune as rescue agent in children receiving Tacrolimus after solid organ transplantation. Presented at the World Congress for Pediatric Hepatology, Gastroenterology and Nutrition. August 9, 2000.
141. Sindhi R, Agarwala S, Venkataramanan R, McGhee W, Webber S, Kocoshis S, Reyes J and Zeevi A. Rapamycin rescue in children receiving Tacrolimus after transplantation. Relating dose and concentration to effect. Presented at the First International Congress of Pediatric Transplantation on August 29, 2000 in Venice, Italy.
142. Ramachandran V, Komoroski BJ, Cai H, Zhang S, Habucky K, Strom SC and Venkataramanan R: Modulation of CYP3A4 by Troglitazone, Rosiglitazone and Pioglitazone in Human Hepatocyte Cultures. Presented at the 15th Annual Meeting of the American Association of Pharmaceutical Scientists, Indianapolis, IN, October 2000.
143. Komoroski BJ, Ramachandran V, Venkataramanan R, Zhang S, Schiff P and Strom SC: Milk Thistle, A Herbal Product, Decreases the Activity of Drug Metabolizing Enzymes in Primary Cultures of Human Hepatocytes. Presented at the 15th Annual Meeting of the American Association of Pharmaceutical Scientists, Indianapolis, IN, October 2000.
144. Ishikawa T, Iwanami K, Okuda T, Zhu Y, Fukuda A, Zhang S, Ou J, Nalesnick M, Murase N, Venkataramanan R. Influence of Ex-vivo graft irradiation on canine small bowel transplantation. Presented at the 34 th annual meeting of the American association of Surgeons, Miami, Fl. October 2000.
145. Pisupati J, Vyas S, Ou J, Venkataramanan R. Tacrolimus Impairs the Urinary and Biliary Excretion of Glucuronide Conjugate of Mycophenolic Acid. Presented at the 2000 AAPS meeting at Indianapolis, IN. November 2000.

146. A. M. Al-Mohizea, N. Murase, V. Subbotin, M. Hutzler, T. S. Tracy, R. Venkataramanan: Acute Rejection of Liver After Transplantation Impairs CYP2C Activity in Rats. Presented at the 15th Annual meeting of the American Association of Pharmaceutical Scientists, Indianapolis, IN, October 2000.
147. Jain A, Venkataramanan R Kasyap R, Rohal S, Fung JJ. profound interaction between tacrolimus and HIV drugs in liver transplant patients. ESOT Congress 2001 (July 2001)
148. Rakesh Sindhi, Steven Webber, Raman Venkataramanan, William McGhee, Susan Phillips, Amy Smith, Cynthia Baird, Katherine Iurlano, George Mazariegos, *Brenda Cooperstone, David W Holt, Adriana Zeevi, John J Fung, and Jorge Reyes Sirolimus for the prophylaxis of rejection and for rescue in transplanted children receiving tacrolimus. ASTP May 2001
149. Venkataramanan R, Pisupati J, Ou J, Shaw LM, Glucuronidation of mycophenolic acid is impaired in acute renal failure. Presented at the ITDMCT conference, Washington DC September 2001.
150. Venkataramanan R, Ramachandran V, Komoroski B, Zhang S, Schiff P, Strom S. Milk thistle, a herbal product decreases the activity of drug metabolizing enzymes in primary cultures of human hepatocytes. Presented at the ITDMCT conference, Washington DC September 2001.
151. Venkataramanan R, Al-Mohezea A, Subbatin V, Murase N. Acute rejection of liver impairs the activity of UGT1A9 in rats. Presented at the ITDMCT conference, Washington DC September 2001.
152. Singh N, Zhang S, Gayowski T, Venkataramanan R. Voriconazole Inhibits Tacrolimus Metabolism – A study in Liver Transplant Patient and in Human Liver microsomes. Presented at the IACAC meeting in Chicago September/December 2001.
153. Iwanami K, Ishikawa T, Okuda T, Zhu Y, Tuerler A, Moore BA, Zhang S, Bauer AJ, Venkataramanan R, Abu-Elmagd K, Starzl TE, Nalesnik MA, Murase N. Long term function and morphology of intestinal allografts in outbred canine transplantation model. Presented at the International Small Bowel Transplant Conference in Stockholm Sweden September 2001.
154. Venkataramanan R, Swaminathan A, Zuckerman S, Abu-Elmagd K, Reyes J and Murase N. Intestinal metabolism contributes to decreased bioavailability of tacrolimus. Presented at the International Small Bowel Transplant Conference in Stockholm Sweden September 2001.
155. Al-Mohezea A, Subbatin V, Murase N Venkataramanan R. Acute rejection of liver impairs the activity of UGT1A9 in rats. Presented at the ISSX meeting Munich October 2001.
156. Ramachandran V, Hartman DA, Komoroski B, Halloran K, Lu T, Schmidt E, Ding H, Lu y, Venkataramanan R and Strom SC. Modulation of CYP2D6 activity in human hepatocyte cultures. Presented at the ISSX meeting Munich October 2001.
157. Komoroski B, Zhang S, Cai H², Nakasawa F², Ramachandran V, Hutzler JM, Tracy TS, Frye R, Ang C, Strom SC, Venkataramanan R. Effect of St. John's Wort components on cytochrome P450 enzymes in primary cultures of human hepatocytes. Presented at the ISSX meeting Munich October 2001.

158. Venkataramanan R, Shimin Zhang, Gayowski T, Singh N. Voriconazole Inhibition of the Metabolism of Tacrolimus in a Liver Transplant Recipient and in Human Liver Microsomes. Presented at the IACAC meeting in Chicago. December 2001.
159. Venkataramanan R, Strom S, Patzer J. Functional assessment of Hepatocytes in Biohybrid Liver Support System. Presented at the MIRM Scientific Retreat and Strategy Planning Session at Nemocolin Woods. February 2002.
160. Sindhi R, Reyes J, Venkataramanan R, Shaw L. Sirolimus Pharmacodynamics in pediatric transplant recipients on tacrolimus. Presented at the American Transplant Congress. Washinton DC April 2002.
161. Jain AB, Venkataramanan R, Shapiro, R, Scantlebury V, Potdar S, Bonham A, Ragni M, Fung JJ. The interaction between antiretroviral agents and tacrolimus in liver and kidney transplant patients. Presented at the American Transplant Congress. Washinton DC April 2002.
162. Venkataramanan R, Shimin Zhang, Gayowski T, Singh N. Voriconazole Inhibits tacrolimus metabolism - a study in Liver Transplant Recipient and human liver microsomes. To be presented at the International Transplant Congress in Miami August 2002.
163. Komoroski B, Zhang S, Cai H², Nakasawa F², Ramachandran V, Hutzler JM, Tracy TS, Frye R, Ang C, Strom SC, Venkataramanan R. The inductive effect of hyperforin predominates over its inhibitory potential. Presented at the ISSX meeting Orlando October 2002.
164. Poloyac S, Komoroski BJ, Cai HB, Strom SC Venkataramanan R “Induction of fatty acid hydroxylation in human hepatocytes” Presented at the ISSX meeting Orlando October 2002.
165. Ranade A, Donenberg V, Burckart G, Venkataramanan R, Donenberg A. FTY720 potentiates P-glycoprotein (PGP) activity in human lymphocyte based exvivo assay. Presented at the ISSX meeting in Orlando October 2002.
166. Jain A, Venkataramanan R, Shapiro R, Scantlebury V, Egstead B, Potdar S, Ragni M, Fung J. Profound interaction between tacrolimus, rapamycin and anti HIV drugs in liver and kidney transplant patients. XIX International Congress of the Transplantation Society. 2002.
167. Sindhi, R, Magill A, Yost M, Reyes J, Venkataramanan R. Thymoglobulin preconditioning enhances tacrolimus induced inhibition of lymphocyte function in pediatric liver and intestinal recipients. ATC Washington DC. May 2003
168. Sindhi, R, Magill A, Yost M, Reyes J, Venkataramanan R. Effect of thymoglobulin preconditioning and tacrolimus/sirolimus monotherapy on lymphocyte subpopulation distribution and function in children with abdominal transplant. ATC Washington DC. May 2003
169. Schubert M, Shaw, Holt D, Venkataramanan R, Sindhi R. Pharmacokinetics of sirolimus in pediatric transplant recipients. ATC. Washington DC. May 2003. (Received award).

170. Jain A, Venkataramanan R, Gadomski M, Egstead B, Marcos A, Fung J. Use of mycophenolate mofetil for tacrolimus related chronic nephrotoxicity in post liver transplant patients: Long term prospective trial with minimum of six year follow up. International Liver Transplantation Society 2003.
171. Jain A, Venkataramanan R, Egstead B, Marcos A, Ragni M, Shapiro R, Rafail A, Fung J. Profound interaction with a combination of two protease inhibitors and tacrolimus in post liver transplant patients with HIV infection. International Liver Transplantation Society 2003.
172. Alkebulen A, Venkataramanan R, Burckart G. McMahon D. MDR1 genotype and Ritonavir pharmacokinetics. Presented at the Eastern Regional Pharmacy Residents meeting. May 2003.
173. Komoroski BJ, Cai HB, Innocenti F, Ramirez J, Strom SC, Venkataramanan R. Inhibition of hepatic UGT1A1 and UGT1A6 by milk thistle constituents in primary culture of human hepatocytes. Presented at GRSAP meeting June 2003- (Received award).
174. Komoroski BJ, Cai HB, Innocenti F, Ramirez J, Strom SC, Venkataramanan R. Inhibition of hepatic UGT1A1 and UGT1A6 by milk thistle constituents in primary culture of human hepatocytes. Presented at ISSX October 2003.
175. Tian H, Ou J, Warty A, Zhang S, Venkataramanan R. Drug metabolizing enzyme capacity is not reduced in proportion to the reduction in liver mass and recovers differentially for different enzymes after partial hepatectomy. Presented at the ACCP meeting September 2003. Received award.
176. Jain A – Ribavirin –American Transplant Congress May 2004
177. Jain – Ribavirin- International Transplant Congress June 2004
178. Rakesh – Sirolimus-American Transplant Congress June 2004.
179. Yan F, Zhang S, Strom S, Venkataramanan R, Protease inhibitors inhibit CYP3A activity in human liver microsomes. Presented at the AAPS annual meeting in Baltimore, November 2004.
180. Yan F, Zhang S, Strom S, Venkataramanan R, Quantitative determination of 13-O-demethyl tacrolimus in human liver microsomes using LC/MS. Presented at the AAPS annual meeting in Baltimore, November 2004.
181. Sivasubramanian R, Schiff P, Frye R, Venkataramanan R. Components of valerian extracts and valerenic acid alter acetaminophen glucuronidation, in vitro. Presented at the AAPS annual meeting in Baltimore, November 2004.
182. Cherala G, Shapiro BH, Venkataramanan R, D’mello AP. Effect of perinatal low protein diet on the activity of select hepatic cytochrome-P450 enzymes. Presented at the AAPS annual meeting in Baltimore, November 2004.

183. Ranade A, Lehmann T, Komoroski B, Strom S, Venkataramanan R. Effect of pro-inflammatory cytokines on expression of hepatic drug transporters in human hepatocytes monolayer cultures and Matrigel overlay cultures. Presented at the AAPS annual meeting in Baltimore, November 2004.
184. Tian H, Ou J, Strom S, Venkataramanan R. Differential expression and activity of drug metabolizing enzymes during hepatic regeneration leading to transiently altered pharmacokinetics of tacrolimus and mycophenolic acid. Presented at the AAPS annual meeting in Baltimore, November 2004.
185. Ranade A, Lehmann T, Komoroski B, Strom S, Venkataramanan R. Effect of pro-inflammatory cytokines on expression of hepatic drug transporters in human hepatocytes monolayer cultures and Matrigel overlay cultures. Presented at the ACCP annual meeting in Arizona, September 2004.- Travel award for graduate student.
186. Capitano B, Potoski B, Hussain S, Gilbert S, Peterson DL, McCurry K, Venkataramanan R. Pharmacokinetics of Voriconazole in Lung Transplant Patients. ICAAC Washington, DC, October 2004.
187. Capitano B, Potoski, BA, Zhang S, Paterson D, Hussain S, Studer SM, McCurry K, Venkataramanan R. Intrapulmonary penetration of voriconazole in lung transplant recipients. Presented at the International Society for Heart Lung Transplantation, Philadelphia, PA April 2005.
188. Liu SS, Frye R, Branch R, Venkataramanan R, Fung JJ, Burckart GJ, Changes in CYP450 enzyme activity over time following liver transplantation. Presented at the ASCPT meeting in Orlando, FL. February 2005.
189. Komoroski BJ, Praise RA, Egorin M, Strom SC, Venkataramanan R. Effect of St.John's Wort constituent Hyperforin on docetaxel metabolism by human hepatocyte cultures. American Cancer Research meeting. Los Angeles, CA, April 2005.
190. Yan F, Zhang S, Strom S, Venkataramanan R. Protease inhibitors inhibit CYP3A activity in human liver microsomes. Presented at the AAPS meeting in Nashville TN, November 2005.
191. Ranade R, Strom S, Venkataramanan R. Pro-inflammatory cytokines differentially modulate the expression and activity of Bile salt export pump (BSEP) in human hepatocyte cultures. Presented at the AAPS meeting in Nashville TN, November 2005.
192. Rama Sivasubramanian, M.Pharm., Reginald Frye, Pharm.D, PhD., Raman Venkataramanan. Valerian does not alter acetaminophen glucuronidation. Presented at the AAPS meeting in Nashville TN, November 2005.
193. Sharma S, Ou J, Strom S, Caritis S, Venkataramanan R. Metabolism of 17- α -hydroxyprogesterone caproate by human liver microsomes. Presented at the AAPS meeting in Nashville TN, November 2005.
194. Matzke GR, Dowling TC, Schonder K, Vessel G, Venkataramanan R, Palevsky P. Renal Reserve is maintained in patients with hepatitis C. Presented at the ACCP meeting in October 2005.

195. Bonner J Amadeo Marcos*, Thomas Shaw-Stiffel*, Raman Venkataramanan*. "Metabolic Functional assessment in Living Donor Liver Transplant Patients" American College of Clinical Pharmacology annual meeting September 2006 - submitted May 2006
196. Bonner J Amadeo Marcos*, Thomas Shaw-Stiffel*, Raman Venkataramanan*. "Metabolic Functional assessment in Living Donor Liver Transplant Patients" AAPS annual meeting October 2006- submitted May 2006
197. Ou J, Stephen Strom, Steve Caritis, Raman Venkataramanan Female sex hormones alter the expression of hepatic Cytochrome P450 genes differentially in human hepatocyte cultures AAPS annual meeting October 2006- Submitted May 2006
198. Sharma S Strom S, Caritis S, Venkataramanan R. "CYP 3A4 metabolizes 17- α -hydroxyprogesterone caproate (HPC), a new agent that prevents preterm labor". AAPS annual meeting October 2006- Submitted May 2006
199. Husain S , Corcoran T , Capitano B, Paterson DL, Studer S , Crespo M , Johnson B , Pilewski J , Pakstis DL, Carey ME, Venkataramanan R. Pharmacokinetic profile of inhaled lipid complex amphotericin B (Abelcet ®) in lung transplant recipients. (Abstract 2742). World Transplant Congress, Boston, MA; July, 2006.
200. Choudry SB, Bonner J, Capitano B, Abu-Elmagd K, Bond J, Costa G, Koritsky D, Martin D, Venkataramanan R. Pharmacokinetics of orally administered voriconazole in small bowel and multivisceral transplant patients. Presented at the Eastern States Residency Research Conference. May 2007.
201. Deen D, Martin D, Capitano B, Bonner J, Bond G, Costa G, Abu-Elmagd K, Venkataramanan R. Evaluation of the role of acute rejection on the oral availability of tacrolimus in small bowel transplant patients. Presented at the Eastern States Residency Research Conference. May 2007.
202. Polisetty R. Mada Reddy S, Capitano B, Potaski B, Venkataramanan R. Drug interactions with voriconazole. Presented at the Eastern States Residency Research Conference. May 2007.
- 203. Choudry SB, Bonner J, Capitano B, Abu-Elmagd K, Bond J, Costa G, Koritsky D, Martin D, Venkataramanan R. Pharmacokinetics of orally administered voriconazole in small bowel and multivisceral transplant patients. Presented at the Small Bowel Transplant Congress September 2007.**
- 204. Deen D, Martin D, Capitano B, Bonner J, Bond G, Costa G, Abu-Elmagd K, Venkataramanan R. Evaluation of the role of acute rejection on the oral availability of tacrolimus in small bowel transplant patients. Presented at the Small Bowel Transplant Congress September 2007.**

- 205. Shringi S, Strom S, Caritis S, Venkataramanan R, for OPRU. FETAL METABOLISM OF 17-ALPHA-HYDROXYPROGESTERONE CAPROATE; A NEW AGENT FOR PREVENTING PRE-TERM LABOR. Accepted for presentation at ACCP meeting in Sep 2007.**
- 205. Sharma S, Strom S, Caritis S, Venkataramanan R, Obstetrical Pharmacology Research Unit (OPRU)⁴ Modulation of hepatic transporter activity by 17- α -hydroxyprogesterone caproate (HPC); a new agent that prevents preterm labor. Presented at the 2007 AAPS meeting in San Diego.**
- 206. Caritis, S, Venkataramanan R. Pharmacokinetics of 17-(OH) progesterone caproate in pregnant subjects. Presented at the OBGYN Conference Sep 2007**
- 207. Goyal, R Venkataramanan R. Sirolimus, tacrolimus and fluconazole pharmacokinetics in pediatric BMT patients. Presented at the 2008 BMT Tandem Meetings Feb 2008**
- 208. HJ Johnson, B Capitano, K Han, D Blisard, S Husain, PK Linden, A Marcos, EJ Kwak, B Potoski, DL Paterson, R Venkataramanan Variable Exposure to Fixed-Dose Voriconazole in Liver Transplant Recipients Presented at the American Transplant Congress, Toronto June 2008**
- 209. Zhang S, Mada SR, Sharma S, Torch M, Mattison D, Caritis S, Venkataramanan R. Simultaneous determination of 17-hydroxyprogesterone caproate, hydroxyprogesterone and progesterone in human plasma using LC-MS-MS. Presented at the American Society of Mass Spectrometry annual meeting in Denver June 2008.**
- 210. Afrooz P, Washington K, Pulikkottil BJ, Unadkat JV, Solaria MG, Bureau D, Weber DJ, Sharma S, Venkataramanan R, Granola V, Schneeberger S, Lee A. Optimizing functional outcomes in peripheral nerve injury, retransplantation, and composite tissue allotransplantation. Presented at the University of Pittsburgh Medical Center School of Medicine Symposium 2008 May 2008.**
- 211. S. Sharma, S. Strom, S. Caritis, R. Venkataramanan for the OPRU Network FETAL METABOLISM OF 17-ALPHA-HYDROXYPROGESTERONE CAPROATE (17-OHPC); A NEW AGENT FOR PREVENTING PRE-TERM LABOR. Accepted for presentation at AAPS annual meeting in Atlanta November 2008. (Submitted May 2008).**
- 212 Ghonem N, Sharma A, Zhang S, Strom S, Venkataramanan R. Treprostinil, a PGI₂ analog, has no effect on the metabolism of immunosuppressive drugs. Accepted for presentation at the AAPS annual meeting in Atlanta November 2008 (submitted May 2008)**

- 213. Roberto, Ranade, Fabio, Dorko, Ewa, Shringi, Geller, Venkataramanan, Strom, Strom Rapid evaluation of human hepatocytes for clinical infusion pre and post hypothermic storage. Submitted for presentation at AASLD November 2008 (submitted June 2008)**
- 214. R. Venkataramanan, J. Hou, R. Polistty, B. A. Potoski, J. Pilewski, D. Zaldonis, S. Hussain, K. McCurry. Tacrolimus-Voriconazole interaction in lung transplant patients. Submitted for presentation at the ACAC meeting in September 2008 (Submitted in May 2008).**
- 215. Potaski B, Clarke LG, Venkataramanan R, Clancy CJ. Undetectable Voriconazole levels in patients – An evaluation of various causes. Submitted for presentation at the ACAC September 2008 (submitted in May 2008)**

- E. Invited Lectures, Seminars, and Symposium Talks:
1. "Stereochemical Aspects of Drug Action". Presented to the SYMPOSIUM on "Stereochemistry" in B.I.T.S., Pilani in 1974.
 2. "Biological Fluids for Drug Kinetics and Drug Binding Studies". Presented to the Department of Pharmaceutics, University of Pittsburgh, Oct. 1980.
 3. "Chlordiazepoxide Absorption and Interaction with Alcohol". Presented to the Department of Pharmaceutics, University of Pittsburgh, Nov. 1981.
 4. "Drug Binding and Drug Kinetics". Presented to the Faculty of Pharmaceutical Sciences at the University of British Columbia, Vancouver, Canada, August 1982.
 5. "Cyclosporine A Clinical Monitoring". Presented at the Organ Transplant Conference, University of Pittsburgh, July 1983.
 6. "Sandimmune (Cyclosporine) Pharmaceutical Aspects". Presented at the SYMPOSIUM ON SANDIMMUNE (Cyclosporine) - A New Era in Immunosuppressant Therapy. Preceding the 18th Annual ASHP Mid-year Clinical Meeting, December 4, 1983.
 7. "Transplantation Therapy". Presented at the Michigan Pharmacist Association, 1984 INTERIM MEETING in Detroit, Michigan, March 10, 1984.
 8. "Cyclosporine Pharmacokinetics in Transplant Patients". Presented at Sandoz, Inc., Basel, Switzerland, May 2, 1984.
 9. "Drug Disposition in Transplant Patients". Presented at the Medical College, Baroda, India, May 21, 1984.
 10. "Drug Kinetics in Disease State". Presented at College of Pharmacy, Kasturba Medical College, Manipal, India, May 23, 1984.
 11. "Drug Kinetics in Disease State". Presented at the Indian Pharmacist Association, Tamilnadu Branch Meeting, Madras, India, June 5, 1984.
 12. "Drug Disposition in Transplant Patients". Invited seminar speaker at the State University of New York at Buffalo, New York, October 18, 1984.
 13. "Drug Disposition in Organ Transplant Patients". Presented to the Faculty of Pharmaceutical Sciences, University of Alberta, Edmonton Alberta, Canada. ALBERTA HERITAGE FOUNDATION VISITING SCIENTIST
 14. "Cyclosporine and Drug Interactions". Presented to the Kidney Transplant group at the University of Alberta, Edmonton, Alberta, Canada. ALBERTA HERITAGE FOUNDATION VISITING SCIENTIST

15. "Design of pharmacokinetic and pharmacodynamic studies in animals" Presented to the graduate student Forum at the University of Alberta, Edmonton , Alberta, Canada. ALBERTA HERITAGE FOUNDATION VISITING SCIENTIST.
16. "Cyclosporine Kinetics in Transplant Patients". Presented at Duquesne University, October 1985.
17. "Biopharmaceutical Aspects of FK506". Presented at the SYMPOSIUM IN European Transplant Society Meeting, Gothenburg, Sweden, June 1986. Also Chairman of the Basic Science Section.
18. "Pharmacokinetics and Pharmacodynamics of Cyclosporine". SYMPOSIUM AT APhA annual meeting in Atlanta March 1987.
19. Cyclosporine Monitoring WORKSHOP, at AACC Annual Meeting, San Francisco, July 1987.
20. "Drug Disposition in Liver Transplant Patients". WVU School of Pharmacy, October 1987.
21. "Drug Therapy in Transplant Patients". Western Pennsylvania Hospital Pharmacy meeting, Pittsburgh, January 1988.
22. "Cyclosporine Pharmacokinetics in Transplant Patients". AACC WORKSHOP, New Orleans, July 1988.
23. "Pharmacokinetics of Cyclosporine in Organ Transplant Patients". Presented at SYMPOSIUM in the First International Congress on Therapeutic Drug Monitoring, October 1988.
24. "Therapeutic Monitoring of Cyclosporine". Presented at the MINISYMPOSIUM on "Cyclosporine - Practical Aspects of Drug Monitoring" at the Ist International Therapeutic Drug Monitoring Congress, Osaka, Japan, October 1988. Also Chairman of the Symposium.
25. "Cyclosporine Monitoring in Heart Transplant Patients". Presented at the meeting of the Heart Institute of Osaka, Osaka, Japan, October 1988.
26. "Clinical Pharmacy and Therapeutic Drug Monitoring". Presented at the Osaka TDM Club, Osaka, Japan, October 1988.
27. "Pharmacokinetics and Pharmacological Aspects of FK506". Presented at Fujisawa Pharmaceutical Co., Osaka, Japan, October 1988.
28. "Cyclosporine Monitoring in Heart Transplant Patients". Presented at the meeting of the Heart Surgeons of Tokyo, Tokyo; Japan, October 1988.
29. "Pharmacokinetics and Pharmacodynamics of Drugs in Transplant Patients" Presented at the University of Nebraska School of Pharmacy 1988.

30. "Pharmacokinetics and Pharmacodynamics of Cyclosporine". Presented at the AFPC/MERCK FROST RESEARCH FORUM on Drug Therapy in Organ Transplantation. Portland Oregon. July 1989.
31. "Pharmacokinetics of FK506 - Clinical and Preclinical Studies". SYMPOSIUM TALK Presented at the European Transplant Congress. Barcelona, Spain. October 1989.
32. "FK506 - an Update". Presented at the Clinical Chemistry Division of University of Pittsburgh. December 1989.
33. "Pharmacological Aspects of Immunosuppression". Presented at the Clinical Chemistry 1989 Meeting at Morristown, NJ. October 1989.
34. "Immunosuppression: Cyclosporine and Beyond". Presented to the British Columbia Transplant Foundation, VGH Hospital, Vancouver, B.C. Canada. April 8, 1990. MRC - VISITING FELLOW
35. "Drug Disposition in Liver Transplant Patients". Presented to the University of British Columbia, School of Pharmacy, Vancouver, B.C. Canada. April 20, 1990. MRC - VISITING FELLOW
36. "Immunopharmacokinetics and Pharmacodynamics". Graduate Seminar at the University of British Columbia, Vancouver, B.C. Canada. April 20, 1990. MRC - VISITING FELLOW
37. "Application of HPLC in Monitoring Immunosuppressive Drugs". Presented at the SYMPOSIUM in HPLC 90 in Boston May 1990
38. "Immunosuppression: Cyclosporine and Beyond". SYMPOSIUM TALK. Presented at the Midwest Section of AACC and NSMT Annual Meeting, Omaha, Nebraska. May 3, 1990.
39. "Pharmacokinetics of Newer Immunosuppressants". Presented at Wyeth-Ayerst Research, New Jersey. May 17, 1990.
40. "Pharmacokinetics and Pharmacodynamics of Cyclosporine" - a update." Symposium Talk to be presented in the Symposium on cyclosporine at the II International Therapeutic Drug Monitoring Congress in Barcelona, Spain, October 1990.
41. "Newer Immunosuppressive Agents" Chairman of the workshop at II International Therapeutic Drug Monitoring Congress in Barcelona, Spain, October 1990.
42. "Pharmacokinetics and Pharmacodynamics of FK 506". Presented at Sandoz Pharmaceuticals. Basel Switzerland October, 1990.
43. "Drug Therapy in Organ Transplant Patients". Plenary lecture given at the Indian Pharmaceutical Association Annual Meeting in Manipal December 1990.
44. "Immunosuppression - Cyclosporine and FK 506". Lecture presented at the K. J. Hospital, Madras India December 23, 1990.

45. "FK 506-Pharmacokinetic Aspects". Seminar given at Fujisawa Pharmaceuticals Inc., Chicago, IL June 1991.
46. "Pharmacokinetics of FK 506". Seminar given at Merck-Frosst Inc., Montreal, Canada, April 1992.
47. "FK 506-Pharmacokinetics" Seminar given to Transplant Program, University of Pittsburgh, May 1992.
48. "Pharmacokinetics of FK 506" Seminar". Presented at the Center for Clinical Pharmacology, May 1992.
49. "Recent Trends in Clinical Immunosuppression" Symposium Talk Presented at the World Conference on Medical Technology, held at Dublin, Ireland, July 1992.
50. "Pharmacokinetics and Pharmacodynamics of Cyclosporine and FK506." Symposium Talk Presented at the FDA, Washington, DC, February 1993.
51. "Metabolism and Toxicity of Cyclosporine and FK506" Presented at Graduate School of Public Health, 1992.
52. "New Immunosuppressive Agents". Presented at the TamilNadu Hospital in Madras, India, November 1993.
53. "Recent Developments in Immunosuppressive Therapy". Presented at the Continuing Medical Education Conference for Nephrologist at Madras India, December 1993.
54. "FK506 and Cyclosporine". Presented at Madras Medical College, December 1993.
55. "Pharmacology and Transplantation-Recent Developments". Presented at the Symposium "New Approaches in Transplantation Therapy: Managing the Science" at AACC Annual Meeting in New Orleans, July 1994.
56. "Recent developments in immunosuppressive Therapy" Presented at the K.J.Hospital, Madras, India February 1995
57. "Organ Transplantation and Drug Therapy" Presented at the Tamilnadu chapter of the Indian Pharmaceutical Association, Madras, India, January 1995.
58. "Optimization of Drug Therapy in Transplant Patients". Presented at the Seminar on Recent Trends in Pharmaceutical Sciences at Ooty, TamilNadu, India, February 1995.
- 59-64. "Optimization of Cyclosporine Therapy in Renal Transplant Patients" 6 Lectures presented at Bombay (2), Hyderabad, Bangalore, Delhi & Madras, March -April 1995.
65. "Current Issues in the use of Cyclosporine" Presented at Sri Lanka Association of the Nephrology and Transplantation (SLANT) ORATION 1995, May 1995.

66. "New approaches to immunosuppression" Presented at the State of the Art Lecture at the Sri Lanka Association of the Nephrology and Transplantation (SLANT) May 1995
67. "Drug Therapy in Liver Transplant Patients" Presented at the Department of Pathology, University of Pittsburgh, Pittsburgh, June 15, 1995.
68. "Developments in Immunosuppressive Drug therapy" Presented at the workshop on Monitoring of Immunosuppressive Drug Therapy at AACC annual meeting in Anaheim July 1995.
69. "Monitoring of Cyclosporine Therapy" Presented at the workshop on Monitoring of Immunosuppressive Drug Therapy at AACC annual meeting in Anaheim July 1995.
70. "Mycophenolic acid-an update" Presented to the Toxicology section of the Department of Pathology, University of Pittsburgh Medical Center. January 1996.
71. "Role of Therapeutic Drug Monitoring in Transplantation" Presented to the Residents of the Department of Pathology, University of Pittsburgh Medical Center. February 1996.
72. "Therapeutic monitoring of Cyclosporine" Presented to the Toxicology section of the Department of Pathology, University of Pittsburgh Medical Center. January 1996.
73. "Therapeutic monitoring of Cyclosporine" Continuing Medical Education program presented to the Medical Technologist at the Department of Pathology, University of Pittsburgh Medical Center. January 1996.
74. "Update on the status of drugs for immunosuppression" Presented at the Advances in Clinical and Forensic Toxicology III, William Beaumont Hospital, Royal Oaks, Michigan, May 2-3, 1996
75. "Mycophenolic acid" the new kid in town. Presented at the University of Luvain, Brussels, Belgium, September 1996
76. "Drug Disposition in Liver Transplant patients" Presented at the University of Luvain, Brussels, Belgium, September 1996.
77. "Pharmacokinetics of tacrolimus" Presented at the workshop on immunosuppressive drug monitoring at the V International Congress on TDM in Vancouver November 1997.
78. "Pharmacokinetics and Monitoring of therapy after Mycophenolate Mofetil" Consensus Conference on Therapeutic Drug Monitoring of immunosuppressive drugs. To be held at the V International Congress of TDM in Vancouver November 1997.
79. "Drug Disposition in Transplant patients" Presented at the II International Congress on Transplantation and Kidney Diseases. Ahmedabad India January 1998
80. "Panel Discussion on newer immunosuppressive drugs" Presented at II International Congress on Transplantation and Kidney Diseases. Ahmedabad India January 1998
81. "Research on immunosuppressive drugs" Presented at Fujisawa Pharmaceuticals Inc, Chicago, April 1998.

82. Tacrolimus absorption in patients receiving enteral nutrition” Presented at the Nutrition Support Forum April 27, 1998.
83. “Assessment of nephrotoxicity of drugs in rats” Presented at RP Rorer, Collegeville, PA May 1998.
84. “Drug Disposition in Transplant patients” Presented at Apollo Hospital. Madras, India December 1999
85. “Drug Disposition in Liver Transplant Patients” Presented at Ranbaxy Laboratories Inc. New Delhi, India December 1999.
86. “Importance of Drug Metabolism studies in New Drug Development” Presented at Ranbaxy Laboratories Inc. New Delhi, India December 1999.
88. “Application of Human Hepatocytes in Drug Development” Presented at Dr. Reddy Research Foundation, Hyderabad, India, May 1999.
88. “Utility of Human Hepatocytes in Drug Discovery” Presented at North Jersey Drug Metabolism Discussion Group minisymposium, Somerville, NJ. June 1999.
89. “Human Hepatocytes in Drug Metabolism Studies” Presented at the Faculty of Pharmaceutical Sciences, University of Alberta, Edmonton, Canada. June 1999.
90. “In vitro and In vivo models to evaluate drug kinetics and toxicity” Presented at Dr. Reddy Research Foundation, Hyderabad, India, October 1999
91. “In vitro and In vivo systems to evaluate induction of drug metabolizing enzymes”. Presented at RWJPRI. October 1999.
92. “In Vitro-In vivo studies to evaluate drug absorption/ bioavailability” Presented at the Schering Plough Research Institute, Kenilworth, NJ. April 2000
93. “Quantitation of Liver and Renal Function”. In “Studies in Renal and Liver Impairment” Symposium session at AAPS annual meeting in Indianapolis, October 2000.
94. “Human Hepatocyte Cultures in Drug Development” In Schering Plough Research Institute. April 2001.
95. “Pharmacokinetic and pharmacodynamic variability in immunosuppressive drugs” Department of Hematology and Oncology. CHP Pittsburgh March 2002
96. “Individualization of immunosuppressive Drug therapy“ Department of Rheumatology. UPMC. April 2002.
97. “Update on immunosuppressive drugs” CLSI, UPMC. July 2002.
98. Biopharmaceutical Aspects of immunomodulatory agents” Presented at the ASHP annual meeting in Atlanta December 2002.

99. "An Overview of immune targets and modulators". Presented at the Exposure response relationship of immunomodulators. AAPS workshop. September 2003.
100. "Herb-Drug Interactions" Presented at the AAPS meeting Salt Lake City Utah, October 2003.
101. "Utility of Human Hepatocytes for drug drug and drug herb interactions. Presented at the NIDA workshop – December 2003.
102. "Immunosuppressive Drug Use in Special Patient Population-Concepts from Bench side to Bed side" Presented at USC-Transplant Program, Los Angeles, CA. March, 2004.
103. "Herb-Drug Interactions- an update" Presented at the NIDA workshop December 2004.
104. "Translational Research in Transplantation" Presented at the USC- School of Pharmacy, Los Angeles, CA October 2004
105. "Where are we in immunologic monitoring of transplant patients" Presented at the 9 th International Therapeutic Drug Monitoring and Clinical Toxicology, Louisville, KY. April 2005
106. Metabolism of Hydroxy Progesterone Caproate – Basic Studies Presented at the OPRU network meeting April 2005.
107. OPRU studies November 2005 – update Rockville MD
108. "Herb Drug Interactions" Presented at the SBIR annual meeting in Rockville MD, November 2005.
109. "Use of Human Hepatocytes in Drug Development" Presented at the Indian Pharmaceutical Congress December 2005 at Hyderabad India.
110. "Pharmaceutical Education" Presented at the Indian Pharmaceutical Congress December 2005 at Hyderabad India.
111. "Living Donor Liver Transplantation" Presented at the Center for Clinical Pharmacology April 2006
112. OPRU studies update – March 2006. Rockville MD.
113. "Analytical methodology in determining drugs and metabolites" Presented at the Summer Institute OPRU Denver, July 2006
- 114. "Analytical methodology in determining drugs and metabolites" Presented at the Summer Institute OPRU Montreal, July 2007**
- 115. "Neglected Metabolic Pathways-in DDI: Phase II enzymes" Presented at the 2007 AAPS workshop on Enzyme and Transporter based drug interactions: Progress and future challenges. November 2007.**

**116. “Analytical methodology in determining drugs and metabolites”
Presented at the Summer Institute OPRU, Vermont, July 2008**

F. Involvement in Graduate Research Program

1. Dissertation / Thesis Supervised:

Mr. Mehul Mehta Ph.D. 1982-1987
Dissertation Title: Drug Disposition in Liver Transplant Patients
Present Address: Director, CDER, Food and Drug Administration, Rockville, MD.

Mrs. May-Lynn Huang Ph.D. 1983-1987
Dissertation Title: Drug Absorption and Disposition in Organ Transplant Patients
Present Address: Research Scientist, Janssen Research Foundation, Belgium

Mrs. Iman Zaghoul Ph.D. 1982-1987
Dissertation Title: Pharmacokinetics of Cyclosporine and its Analogs
Present Address: Associate Professor, University of Alexandria, Egypt

Mr. Martin D'Souza Ph.D. 1982-1987
Dissertation Title: Effect of Immunosuppressants on Drug Metabolism
Present Address: Professor of Pharm.Sci. Mercer University, School of Pharmacy, Atlanta, Georgia

Mr. Anil D'Mello Ph.D. 1982-1986
Dissertation Title: Drug Interactions with Imidazole Antifungal Agents
Present Address: Professor of Pharmaceutics, Philadelphia College of Pharmacy and Sciences; Philadelphia, Pa.

Ms. Karen Habucky: Ph.D. 1988-1992
Dissertation Title: Pharmacokinetics and Pharmacodynamics of FK 506
Present Address: Pharmacokinetics, RWJPRI, NJ
President of AAPS

Mr. Robert Whalen: M.S. 1989-1992
Dissertation Title: Metabolic Aspects of FK 506, 1992
Present address: Venture Capitalists, Groton, Co.

Mr. Corby Sugars: M.S. 1992-1996
Dissertation Title: Transdermal Penetration of FK 506
Present address: Regulatory Affairs, Merck, NJ

Mr. Arun Swaminathan: Ph.D. 1991-1997
Dissertation Title: Factors affecting the absorption of tacrolimus and Cyclosporine.
Present address: Associate Director, Bristol Myers Squibb, Princeton, NJ.

Ms. Sangeeta Agarawal: Ph.D. 1999
Dissertation Title: Nephrotoxicity of immunosuppressive drugs.
Present address: Medical Science Liaison, Bristol Myers Squibb, Princeton, NJ
USP Fellow – 1996, 1998

Mr. Vinod Ramachandran: Ph.D. 1996-2001
Dissertation Title: Drug Metabolism in Human Hepatocytes –its regulation
Present address: Glaxo Smith Kline, Philadelphia, PA

Ms. Jaya Pisupati Ph.D. 1995-2001
Dissertation Title: Regulation of Glucuronidation of Mycophenolic acid
Present address: Scientist, Quintiles Kansas City, MI

Mr. Abdullah Al-Mazea Ph.D. 1997-2002
Dissertation Title: Small bowel transplantation -GI transport and gut
metabolism
Present Address: Faculty - Saudi Arabia.

Mr. Hui Tian 2001-2005
Dissertation Title: Drug kinetics and Hepatic Regeneration
Present Address: Scientist, TransTech Pharma, High Point, NC

Bernard Komoroski 2000-2005
Dissertation Title: The direct and indirect effect of herbal products on
Common drug metabolizing enzymes and drug
transporters
Present Address: Research Scientist BMS, Princeton, NJ

Ms. Shimin Zhang MS 1999-2002
Dissertation Title: Interaction between Voriconazole and tacrolimus
Present Address: Research Associate, University of Pittsburgh

Junhai Ou MS 2000-2003
Dissertation Title: Interactions of Milk Thistle with drugs.
Present Address: Research Associate, University of Pittsburgh

Aarati Ranade Ph.D. December 2005
Dissertation Title: Drug metabolism and drug transport interactions of HIV
protease inhibitors
Present Position: Research Scientist, University of Arizona, Phoenix

Rama Sivasubramanian Ph.D. November 2005
Dissertation Title: Herb Drug Interactions
Present Address: Nektar Pharmaceuticals, Secandarabad, India

William Zamboni Ph.D. 2005
Dissertation Title: Pharmacokinetic, Pharmacogenetic, and Phenotyping Studies of
Anticancer Agents Metabolized by Cytochrome P-450

3A4/3A5
Present Address: Faculty University of Pittsburgh School of Pharmacy
Shringi Sharma **Ph.D. (Current)**
Dissertation Title: **Regulation of metabolism of Hydroxy progesterone caproate**

Jennifer Bonner: **Ph.D. (current) Clinical Scientist program**
Dissertation Title: **Pharmacokinetics of drugs in Small bowel transplant patients**

Asish Sharma: **MS. (current)**
Dissertation Title: **In Vitro evaluation of interaction of Remodulin with immunosuppressive drugs.**

Robert Parieser: **Ph.D. (current) (Co-advisor)**
Dissertation Title : **Pharmacokinetics and metabolism of anticancer drugs**

Nissa Ghonam: **Ph.D. (current) Clinical Scientist program**
Dissertation Title: **Ischemia and Reperfusion injury and drug metabolism and transport**

Han Kelong: **Ph.D. (current)**
Dissertation Title: **Phase II metabolism during pregnancy**

Jeremiah Momper: **Ph.D. (current) Clinical Scientist program**
Dissertation Title: **Transporters in Transplantation**

Mohamed **Ph.D. (current) Clinical Scientist program**
Dissertation Title: _____

2. Dissertation / Thesis Committee Member:
Mrs. Patricia Kroboth - Pharmacy Practice Ph.D. 1983

Mrs. Li-Shei Lin - Pharmacology Ph.D. 1984

Dr. Sunil K. Chattopadhyay - Pharmacognosy Ph.D. 1984

Mr. Ron Kotun - Pharmacology Ph.D. 1985

Mr. Moafak Jasim - Pharmaceutics M.S. 1984

Mr. James Augustine - Pharmacology Ph.D. 1987

Ms. Hanaa Hashem - Pharmacology Ph.D. 1988

Dr. Reggie Frye – Pharmaceutical Sciences, Ph.D. 1995

Mrs. Nandita Ganguly Das - Pharmaceutical Sciences, Ph.D. 1995

Mr. Frank Bedu-Adu- Pharmaceutical Sciences, Ph.D. 1995

Mrs. Lisa Rohen - Pharmaceutical Sciences, Ph.D. 1995

Mr. John Robicheau - Pharmacy and Therapeutics -on going

Ms. Ray Ann Maxwell - Pharmacodynamics – Ph.D. 1997

Ms. Thomas Dowling – Pharmaceutical Sciences – June 1999

Mr. Fahd Al-genouby - Pharmaceutical Sciences – November 1999

Dr. Ike Lee - Clinical Scientists – September 2001

Ms. Vera Donenberg – Pharmaceutical Sciences - 2002

Ms. Hongxia - Pharmaceutical Sciences – November 2003.

Dr. Tom Nolin – Clinical Scientist – May 2003

Dr. Mike Torticilli – Clinical Scientist – 2007

Ms. Yun Fan – Pharmaceutical Sciences – 2007

Mr. Sahani – Pharmacology – 2006

Ms. Weihsu Claire Chen – Pharmaceutical Sciences – 2007- Chairperson

Ms. Alex Sassi – Pharmaceutical Sciences – current-Comprehensive exam committee

Mr. Hirdesh Uppal – Pharmaceutical Sciences - 2007

G. Involvement in Undergraduate Research Program:

1. Undergraduate Research Project Supervised

Judith A. Blundo -	Protein Binding of Diazepam in Cholestasis - 1981
Ken Shurer -	ECD-GC Assay for Clobazam - 1982
Cheryl Ung -	Stability of Cyclosporin A in Biological Fluids - 1984
Lee Gebert -	Effect of Food on Cyclosporine Absorption - 1985
Richard Blaha -	Effect of Intravenous Drug Administration on Cyclosporine Delivery to Patients - 1985
Denise Shaw -	Problems and Solutions in Analyzing Drug Kinetics in Blood- 1985
Karen Habucky*-	Effect of chronic treatment on cyclosporine absorption and disposition - 1986
Jihad Nehme -	Effect of cyclosporine on antipyrine metabolism - 1986
Kimberly Kalp*-	Acetaminophen kinetics in liver transplant patients - 1987
Kimberly Kalp -	Cephalosporin kinetics in liver transplant patients - 1987
Jenene Mrozek -	VP-16 - Analysis and kinetics in bone marrow transplant patients – 1987
Nicky Castellini*-	FK 506 and drug metabolism - 1987
Ann Toth* -	Aminopyrine metabolism as a marker of viability of livers stored in UW solution - 1988
Mojgan Rahimzadeh-	Ceftriaxone kinetics in liver transplant patients - 1988
Julie Dick -	Effect of FK506 on oxidative drug metabolism - 1988
Tim Black -	Vitamin A and vitamin E concentrations in liver transplant patients – 1988
Ann Toth -	Effect of lipoprotein concentration on cyclosporine kinetics 1989; ceftriaxone kinetics in liver transplant patients 1990
Derren Tomorino*-	FK506 stability and availability - 1989
Gary Day -	Drug kinetics in transplant patients - 1989
Elizabeth Carrouters-	Drug kinetics in transplant patients – 1989
John Patsy -	Meperidine kinetics in liver transplant patients 1990
Melanie McElveny-	Factors influencing cyclosporine and cyclosporine metabolite binding to blood proteins - 1990.
Tricia Zanoni -	Iothalamate clearance studies in organ transplant patients -1990
Lisa Huang* -	Effect of FK 506 on acetaminophen kinetics in rats-1990
Kamini Katyal -	Acyclovir kinetics in liver transplant patients - 1991
Rachelle Nedrow-	Meperidine kinetics in transplant patients - 1991
Samuel Poloyac-	Antipyrine metabolism in liver transplant patients - 1991
Maria Croyle* -	FK 506 Stability and adsorption
Maxine Morell -	Brequinar binding to plasma proteins
Ajay Mirani -	High School/University - Summer Intern-1990, 1992
Nicky Reddy -	High School/University - Summer Intern-1990
Julie Welch -	High School/University - Summer Intern-1991
Nicole Deman -	High School/University - Summer Intern-1991, 1992
Kimberly Clawson -	Summer Intern-1992
Rohit Agarwal -	Summer Intern-1992
Angela Metzger -	Transdermal absorption of FK 506
Tanya Taeger -	Fluconazole - FK 506 interaction

Larry Snowberger -	Stability of FK 506
Jennifer Schiffbauer-	Renal function in transplant patients
Brian Delp -	Ceftriaxone kinetics
Kristen Kociban -	Adsorption of FK 506 on to charcoal
Ken Say -	Gastric emptying in small bowel transplanted dogs
Shawn Toy -	Fluconazole kinetics in renal transplant patients
Patti Olosky **	Mycophenolic acid – enterohepatic recycling in rats"
Mai Lee -	Chlrozoxazone kinetics in biliary excretion in rats after transplantation
Bernie Komoroski*	Regulation of Phase II pathways in Hepatocytes (MERCK FELLOW- 1998; Pfizer summer fellowship 1999)
Asha Tata	Evaluation of conjugative metabolism in human hepatocytes – Summer 2000
Sara Bristol	Interaction between immunosuppressive drugs and HIV protease inhibitors – Fall 2001
Julie Aaron	Drug Metabolism and Transport in Hepatic Regeneration. 2002 (GEAR UP)-Pfizer Summer Research Fellowship-2002
Pavlidis, Stavros	Phase 2 metabolism during hepatic regeneration – 2003 (GEAR UP)
Justin Smutzer	Phase 2 pathways in pregnancy (GEARUP)
Vikram Raghu	High School summer research student
Ashwin Chandra	High School summer research student
Kristine	Pharm. D. Research Rotation – Research in liver transplant patients – Spring 2007
<u>Dustin Walsch</u>	<u>Pharm D. Research Rotation- Research in Transplant Patients - Fall 2007</u>
<u>Brandy Pingatore</u>	<u>Pharm D. Research Rotation – Research in Transplant Patients – Spring 2008</u>

* Proceeded to graduate studies or medical school

H. M.D./Ph.D. Fellows:

1. Jeff Grey, M.D.- Cyclosporine kinetics in transplant patients and normal subjects; Antipyrine kinetics in liver transplant patients. 1985-86. Private Practice
2. Byron Delamos, M.D. - Cyclosporine kinetics in liver disease; Acetaminophen kinetics in liver transplant patients. 1986-87. Faculty University of Pittsburgh
3. Mordechai Rabinovitch, M.D.- ICG clearance in liver transplant patients; Ceftraixone kinetics in liver transplant patients. 1987-89. Faculty University of Pittsburgh
4. Ashok Jain, M.D. - Fk 506 Pharmacokinetics in transplant patients. 1988-1993. Faculty University of Pittsburgh
5. Abu-Elmagd, M.D. - Fk 506 Pharmacokinetics and Interaction. 1989-1993. Faculty University of Pittsburgh
6. Paul Wang, Ph.D. - Cyclosporine metabolism. 1986-88
Research Scientist, Wyeth Ayerst

7. Martha Steeves, Pharm.D. - Interaction of FK506 with antacids; In clinical Practice
8. Janet Karlix, Pharm.D. - FK506 Pharmacodynamics - Cyclosporine and its metabolites role in Immunosuppression in renal transplant patients.
Faculty University of Florida School of Pharmacy
9. Hisham Abdallah, Ph.D. - FK506 Metabolism; meperidine - first pass metabolism. 1990-91
Research Scientist; Roche Global Development
10. Tata, Prasad, Ph.D. - FK506 Metabolism
Senior Pharmacokineticist, Otsuka Pharmaceuticals, MD
1991-1995
11. Romeo Quijano, M.D; WHO fellow - Guidelines on the conduct and evaluation of bioavailability studies on pharmaceutical products. 1993 Faculty University of Manila, Philippines
12. Hamad Imad, M.D. Transplant Surgery 1997-8
13. Tanuja Thakur, Ph.D. 2000-2003.
14. Aesha Alkebulen, Pharm. D. Resident 2002-2003.

15. Sripal Mada Reddy., Ph.D. April 2006-April 2008

I. Technical Staff Supervised:

Junhai Ou Research Associate

Current:

Shamin Zhang Research Specialist III

Wenchen Research Specialist I

J. Faculty Mentor for:

Emily Wade, Pharm.D.

Blair Capitano, Pharm.D. (Mentor for GCRC and Starzl Research grant)

Rhonda Rea, Pharm.D. (Mentor for GCRC grant)

K. Current Research Interests and Projects in Progress:

1. General Interests

- a. Drug Absorption, distribution, metabolism, excretion and drug interactions in organ transplant patients
- b. Pharmacokinetics, pharmacogenetics and pharmacodynamics of immunosuppressive drugs
- c. Effect of race, gender and age on immunopharmacokinetics and immunopharmacodynamics
- d. Hepatic regeneration and pharmacokinetics in Living donor liver transplant patients
- e. Artificial liver support
- f. Ischemia and Reperfusion injury and organ function
- g. Regulation of Cytochrome P 450, phase 2 enzymes and drug transporters in small bowel and liver Transplant patients
- h. Infection and treatment of infections in transplant patients
- f. Nephro, neuro and hepatotoxicity of drugs
- g. Regulation of drug metabolism-studies in human hepatocyte cultures
- h. Immune response, inflammatory mediators, hepatic regeneration and drug metabolism
- i. Characterization of the function of artificial liver support systems
- j. Herb – Drug Interactions
- k. Drug metabolism in pregnancy – mechanisms and pathways
- l. Aerosolized drug delivery and pulmonary deposition of drugs in lung transplant patients

2. Projects in Progress

- a. Studies in humans
 - Drug disposition in liver, renal, cardiac and bone marrow transplant patients. This project involves a study of absorption, distribution, metabolism and interactions of a number of drugs in liver transplant patients.
 - Evaluation of the functional capacity of kidney in liver and kidney transplant patients.
 -
 - Evaluation of functional capacity of liver in donor and recipient in Living Donor Liver Transplantation – Hepatic Regeneration
 - In vivo - in vitro correlation of hepatic drug metabolism - study of isozyme specific markers.
 - Herb Drug interactions in humans
 - Drug metabolism in pregnancy – evaluation using human hepatocyte cultures
 - Pharmacokinetics of hydroxyl progesterone caproate in pregnant subjects
- b. Studies in animals
 - Efficacy and toxicity of immunosuppressants in animal models following transplantation
 - Small bowel transplantation: gut irradiation on drug absorption, metabolism and transport

- Effects of ischemia and warm re-perfusion injury on cytochrome P-450, UGT and transporter gene expression and drug metabolism (isolated liver perfusion system has been set up for this study).
- Effects of hepatic regeneration on drug absorption, metabolism and transport.
- Effects of acute / chronic rejection of organs on central and peripheral drug metabolism and drug transport.
- Regulation of gut metabolism.
- Evaluation of nephrotoxicity and neurotoxicity of immunosuppressive drugs and other agents.

c. In vitro studies:

- Use of Human hepatocyte cultures as model system to predict drug metabolism and drug interactions
- Use of human hepatocyte cultures to evaluate herb – drug interactions
- Regulation of phase 2 metabolism – in Human hepatocyte cultures
- Artificial Liver support system (use of pig hepatocytes) – an evaluation of its functional capacity- project
HPLC system for analysis for various markers for cytochrome P450 activity in hepatocytes has been set up (lidocaine and its metabolites; testosterone and its metabolites; 4methy umbelliferone and its metabolites; mycophenolic acid and its metabolites; antipyrine and its metabolites).
- PGP activity and regulation during pregnancy

- L. Special Achievements:
1. Development of UW Solution:
Primarily responsible for preparation of this solution for animal studies first and then for clinical trials for nearly one year at the University of Pittsburgh prior to its commercial availability. In charge of Quality Control program. This solution has significantly influenced the practice of liver transplantation.
 2. Development of FK 506 (Tacrolimus):
Primarily responsible for pharmaceutical aspects of development of this drug. This includes setting up FK capsule production facility, quality control studies, stability studies, analytical development, preclinical and clinical pharmacokinetics and metabolism studies.
 3. Tri School Pharmaceutical Sciences Discussion Group:
Initiated, coordinated and organized a discussion group involving University of Pittsburgh, Duquesne University and West Virginia University School of Pharmacy and Mylan Laboratories over 1987-1990. This group met thrice a year on an average once at each university. This has so far been a very successful event.
 4. Clinical Pharmacokinetics Laboratory:
Established Clinical Pharmacokinetic lab that provides therapeutic drug monitoring of cyclosporine, tacrolimus, zidovudine, acyclovir, Ganciclovir, itraconazole, trimethoprim, sulfamethoxazole. Also provided facility for measuring antipyrine clearance, caffeine clearance, glomerular filtration (iothalamate clearance), active tubular anionic secretion (hippurate clearance).
 5. Clinical Consultant for Transplantation Biochemistry
Provide consultation to the toxicology laboratory in the department of Pathology on various therapeutic drug-monitoring programs. Especially during the entire year of 1996, I was in charge of the immunosuppressive drug therapeutic monitoring program at the CLSI in UPMC. During this time period, I obtained two grants from Abbott and INCSTAR for evaluation of tacrolimus assay kits.
 6. Establishment of tacrolimus analysis system for VA Medical center
During the year 1997, I established a laboratory facility for measurement of tacrolimus concentrations in blood samples from VA patients. This facility is funded by VA transplant program.
 7. Drug Metabolism in Human Hepatocytes:
Established working relationship with the department of Pathology to study drug metabolism in human hepatocytes since 1998.
 8. Artificial Liver support Program:
Established working relationship with the artificial liver support program to evaluate the functional capacity of the liver support system in terms of drug metabolizing capacity.

9. Research Alumni Day:
Organized a day of interaction between Graduate Alumni and current graduate students and faculty in the School of Pharmacy. The objectives were to 1). Provide an informal setting for the graduate student and faculty to meet and for network with graduate alumni. 2). To show case our current research activity to the graduate alumni. 3). Reinitiate the TRI SCHOOL (Pitt, WVU and Duquesne – Pharmacy School) graduate researcher get together.

Year 2001; SPARC 2003

10. **Monthly Transplant Clinicians/Researcher meeting: Initiated and run monthly meetings since March 2003-2004; reinitiated in 2008**
11. **Great Lakes Symposium – 2007 Advisor. Attended by nearly 100 graduate students from 7 different Schools of Pharmacy.**

M. Referee / editorial board:
Journal of Pharmaceutical Sciences -
Science
Canadian Journal of Pharmaceutical Sciences
International Journal of Pharmaceutics
Pharmaceutical Research - current
Journal of Pharmacokinetics and Biopharmaceutics
Hepatology - current
Digestive Diseases and Sciences
Psychopharmacology
Transplantation
Transplant International
Clinical Chemistry
New England Journal of Medicine
Clinical Transplantation
Current Drugs-panel of evaluator
American Society of Nephrology
Molecular Pharmacology
Molecular Pharmaceutics
J. Pharmacology and Experimental Therapeutics
Clinical and Applied Immunology Reviews
Current Drug Metabolism
Cell Transplantation
Diabetologia
Pediatric transplantation

Drug Metabolism and Disposition - current

Therapeutic Drug Monitoring – Current – Editorial board member

Journal of Clinical Pharmacology – Current – Editorial board member

Clinical Chemistry – current

Br. J. Clinical Pharmacology- current

Liver Transplantation – current

BMC Pharmacology

- N. Grants and Proposals: (To be updated)
a. Funded grants More than 110

Active 2007-2008:

ACTIVE

Fujisawa (Hussain) 11/01/04-10/31/07
Pharmacokinetic Profile of Inhaled Liposomal Amphoterecin B in lung
transplant patients.

This project determines the steady state concentration of inhaled amphoterecin
B in BAL and serum in lung transplant patients

N01-CM-52202 (Egorin) 12/15/04-12/14/09

National Cancer Institute

Preclinical Pharmacological Studies of antitumor agents and other therapeutic

agents

This project evaluates the metabolism and transport using microsomes and
human hepatocytes.

R01 CA107011 (Xie) 4/1/04 2/28/090.60 Calendar

National Institute of Health \$194,378.00

Orphan Nuclear Receptor PXR Controlled Bile Acid Detoxification in Colon

Cancer

The long-term goals of this study are to determine the molecular mechanisms by
which PXR regulates bile acid detoxification and the implication of this
regulation in colon cancer prevention.

U10 HD047905 (Venkataramanan) 7/1/044/30/08 0.60 Calendar

Magee-Womens Health Corp. \$97,123.00

Obstetric-Fetal Pharmacology Research Units (OPRU) Network

Developing protocols to conduct in vitro and in vivo studies evaluating the
effect of pregnancy on the pharmacokinetics of drugs. Oversee the in vitro
studies to evaluate the expression and activity of drug metabolizing enzymes
and transporters using human hepatocytes. Analyze data and prepare
publication.

(The final year May 2008-April 2009- waiting for approval of this).

U10 HD047905 (Venkataramanan) 5/1/054/30/08 1.20 Calendar

Magee-Womens Health Corp. \$26,520.00

HPLC MS Analysis and Plasma Protein Binding of 17 Alpha

Hydroxyprogesterone Caproate HPC. The project's specific Aim is to develop a specific and sensitive HPLC-MS-MS assay for the analysis of HPC and its metabolites in biological fluids such as plasma, urine and saliva.

U10 HD047905 (Venkataramanan) 5/1/054/30/08 0.60 Calendar Magee-Womens Health Corp. \$21,579.00

17 OHCP Study Expression and Activity of Drug Metabolizing Enzymes and Transporters in Pregnancy. The specific aim for this project is to evaluate the effect of serum components obtained from pregnant subjects at each trimester and postpartum on the mRNA expression, protein content and activity of cytochrome P450 enzymes, uridine diphosphoglucuronosyl transferases and transporters, bile salt excretory pump and MRP2 in human hepatocytes.

(A carry over of approximately \$ 35,000 – waiting for approval).

U10 HD047905 (Venkataramanan) 5/1/054/30/08 1.20 Calendar Magee-Womens Health Corp. \$109,298.00

Metabolism and Metabolic Interactions of 17 Alpha hydroxyprogesterone

Caproate

The aims for this project are to evaluate the metabolism of HPC using human liver microsomes and human hepatocytes. To identify and characterize the structure of HPC metabolites generated in human liver microsomes and human hepatocytes. To compare the metabolism of HPC in human livers and baboon livers. To evaluate the potential of HPC to alter the pharmacokinetics of other drugs. To obtain preliminary information on the kinetic parameters of HPC.

U01 AT003566 (Venkataramanan) 8/15/067/31/10 0.60 Calendar National Institute of Health \$3,865.00

Phase I/II Trials of Silymarin for Chronic Liver Diseases Data Coordinating

Center

(Belle, Epidemiology) A consortium including 4 clinical sites, a data coordinating center and project scientists and medical officers from the National Center for Complementary and Alternative Medicine (NCCAM) and the National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) is being formed as a cooperative agreement to design and implement three phase I/II trials of silymarin for patients with liver disease.

11/29/07 11/28/080.90 Calendar

APT Pharmaceuticals

(sub contract from Pulmonary division) \$11,043.00

Development of New Formulations and Delivery Systems for Inhaled

Cyclosporine

To produces simple alternate formulations of cyclosporine solution for inhalation, including solutions with alternate solvents and suspensions, and study the aerosol delivery of these formulations.

Not Assigned (subcontract from Pulmonary division) 10/1/07

9/14/08

Department of Defense \$10,000.00

Development of an Inhaled Dry Powder Delivery System for Administration of Atropine

This proposal describes a device development program and pilot clinical trial of self-administered, piezo-electric, dry powder inhaler (DPI) to deliver aerosol atropine for inhalation.

(There will be approximately \$ 45,000 coming in around August 2008; another \$ 45,000 coming in December 2008 in the above proposal).

Not Assigned (Co-PI: Raman Venkat) 01-01-08 – 12-31-10

United Therapeutics \$ 128,000

A single center randomized double blind parallel placebo controlled study of the safety and efficacy of Remodulin in orthotopic liver transplant recipients.

Not assigned PI- Venkat) 07/01/08 -

06/30/08

Pfizer \$ 38,400

Low Exposure of voriconazole in transplant patients: causes Assess factors responsible for low voriconazole exposure in transplant patients

CTSI Fellowship

T-32 Jennifer 2006-2008; 2008-2009

CYP3A and Pgp regulation in intestinal transplant patients

CTSI Fellowship:

T-32 Nisa Ghonem 2008-2009

Ischemia and reperfusion injury and prevention in liver transplantation

Submitted not funded:

University of Pittsburgh – BaCCoR Proposal:

Regulation of intestinal CYP3A and Pgp in small intestinal transplant patients.

- O. Memberships in Professional and Learned Societies (including any offices held, committee memberships, etc.):

Rho Chi (Alpha Omicron Chapter) since 1981

American Association of Colleges of Pharmacy since 1982

American Association of Pharmaceutical Sciences since 1986

American College of Clinical Pharmacology since 1987

International association of therapeutic Drug Monitoring and Toxicology since 1993.

International Society for the Study of Xenobiotics

Hepatocyte Users Group

IV. SERVICES

A. Service As A Scientific Consultant To Governmental Agencies and/or Industrial Concerns

1. Member of the Task Force on Bioequivalence - Department of Health, Commonwealth of Pennsylvania
2. Member of Cyclosporine Study Group - of the National Association of Clinical Biochemist
3. Member of the consensus panel on therapeutic monitoring of Mycophenolic acid. Atlanta July 1997 and Vancouver BC November 1997
4. Special Government employees and a Consultant to CDER at FDA from 8/97 to 8/02.
5. Consultant – Sitek Research Laboratory, Rockville, Maryland
6. Committee member – Transplant Immunology; USP, Rockville, MD; 1997-2000.
7. Clinical Pharmacology consultant to the Cardiovascular and Renal Drug Advisory Committee of the Division of Special Pathogens and Transplant Drug Products at the FDA-October 2006

B. Professional Practice and/or Service:

1. Memberships in committees:
 - a. Member of the organizing committee for the symposium on "Stereochemistry" held in B.I.T.S., Pilani, India, in 1974.
 - b. Member of the Pharmaceutics Division Seminar Organizing Committee, U.B.C. during 1976-77.
 - c. Graduate Student Representative to the Faculty of Pharmaceutical Sciences, U.B.C. during 1975-76.
 - d. Graduate Student Representative to the Division of Pharmaceutics in the Faculty of Pharmaceutical Sciences, U.B.C. during 1976-77.
 - e. Representative of the Department of Pharmaceutics in the Academic Integrity Committee of the School of Pharmacy, University of Pittsburgh (1980-81); (1983-84); (1984-85).
 - f. Chairman of the Seminar Organizing Committee in the Department of Pharmaceutics, School of Pharmacy, University of Pittsburgh (1980-81); (1983-84); (1984-85).
 - g. Representative of the Department of Pharmaceutics in the Budget Policy Review Committee of the School of Pharmacy, University of Pittsburgh (1980-81).
 - h. Represented the School of Pharmacy at the Assistant Professor level, in the Lake View Conference Follow-up meeting with the Chancellor (1981).
 - i. Participant in the Academic Administrator's Workshop of the University of Pittsburgh at

- Johnstown - June 2, 3, and 4, 1982.
- j. Member of the School Level Review Committee for the Chancellor's Distinguished Teaching Award.
 - k. Member of the School of Pharmacy Faculty Committee on Phase I Planning.
 - l. **Member of Steering Committee, Clinical Scientist Program.**
 - m. **Member of Curriculum Committee, 1986- 89; 2004-current.**
 - n. Member of School of Pharmacy Dean Search Committee, 1987
 - o. Member of the Graduate Committee of the School of Pharmacy, 1986- 1990
 - p. Member of Senate Elections Committee, 1986-1988.
 - q. Member of Senate Library Committee 1989-1991.
 - r. Faculty search committee 1982, 1985, 1986, 1988, 1989
 - s. Scientific Review Committee of PPD Section of AAPS for APPS Annual Meeting in Atlanta 1989; Las Vegas 1990; Salt Lake City 2003; Baltimore 2004).
 - t. Tenure and Promotions Reviewer
 - SUNY at Buffalo
 - Duquesne University
 - University of Minnesota
 - University of Pittsburgh – several candidates
 - West Virginia University
 - Wayne State University
 - Mercer University
 - u. Workshop coordinator- Workshop on cyclosporine monitoring; at the First International Therapeutic Drug Monitoring Congress in Osaka, Japan. 1988.
 - v. Workshop coordinator - Workshop on new immunosuppressive drugs; at the Second International Therapeutic Drug Monitoring Congress in Barcelona. October 1990.
 - w. Member URC since 1991; Chairman, URC - Subcommittee for Evaluation of CRDF at the University of Pittsburgh, 1992. current
 - x. Member Health Sciences Research Committee, University of Pittsburgh, 1996-
 - y. Member IRB – University of Pittsburgh
 - z. Vice Chair- Transplant Institute Protocol Review committee/DSMB
 - aa. TA/TF task Force Chairperson 2002

- bb. SPARC- Graduate Alumni Research Day Coordinator –2002
- cc. Member of the Committee on Immunosuppressive Drug Therapeutic Monitoring International Therapeutic Drug Monitoring Congress - 2001
- dd. AAPS – Drug Metabolism Focus group Chair. 2003-2006.
AAPS – Vice Chair for PPDM – 2006-2007
- ee. AAPS- Annual meeting abstract reviewer.
- ff. Member-Distinguished Lecture series committee
- gg. Member – Graduate Admissions committee
- hh. AAPS 2004, 2005, 2006-symposiua, short course, workshop organizer
- ii. AAPS – 2004, 2005, 2006 Programming suggestions committee
- jj. ACCP – International Development Committee Co chair
- kk. ITDMCT Immunosuppressive Drug Committee
- ll. ITDMCT Clinical Pharmacokinetics Committee
- mm. Graduate Program Council – Dept of Pharm. Sciences
- nn. Faculty Grievance committee
- oo. AAPS 2004- coordinated 2 programs
- pp. AAPS 2005 – coordinating 4 programs
- qq. School Retreat Planning Committee – 2005
- rr. School representative ACCP institute -2005
- ss. Member of Graduate Program Committee 2005, 2006,2007
Chair of Academic Affairs Committee- 2005, 2006, 2007**
- tt. External Examiner for Ph.D. dissertation –
Suny Buffalo
University of Alberta
Hong Kong University sep 2005
- uu. Mentor for K Award – Blair Capitano; Lakshman Krishnamurthy 2005

School Wide Committees (2007-2008):

- a. **Curriculum Committee; PYC co-coordinator**
- b. **Budget and Policy Committee**
- c. **Graduate Program Council-member; Academic Affairs Committee-chair**
- d. **Member – Clinical Scientists Program Steering Committee**

Other Committees:

- a. **Transplant Institute DSMB and PRC – Vice Chair**

University wide committees (2007-2008):

- a. **IRB (Committee D; Committee C)**
- b. **CTSI (Advisory Committee)**
- c. **CTSI (Ph.D. Program Committee)**

National Committees:

- a. **AAPS – PPDM – Chair Elect 2008**
Member of Annual meeting Program Committee -2008 meeting
Member of several committees within AAPS

AAPS – Organizing Committee Workshop on Enzyme and Transporter based drug interactions. Nov 2007

- b. **Pfizer – TDM Ad board member September 2007**
- c. **ACPE – Accreditation Site Visit Team member – Visit to University of Kansas School of Pharmacy**

International:

- a. **University of Madras – 2007 – External Examiner for Ph.D. Candidate**

2. Consulting

- a. **Provide consultation to the Liver, Cardiac, and Kidney, small bowel Transplant Teams at the University of Pittsburgh.**
- b. **Provide clinical service to Organ Transplant program-Intestinal Rehabilitation and Transplant Center.**
- c. Provide Pharmacokinetic consultation on cyclosporine blood level monitoring to various organ transplant centers around the country and around the world. Consultation on

monitoring and kinetics of cyclosporine provided to some countries including: a) Canada, b) England, c) Israel, d) France, e) Italy, f) Switzerland, g) Venezuela, h) Sweden, i) Japan, j) China, k) Kuwait, L) Mexico, M) Spain N) India O) Sri Lanka.

d. **Provide kinetic consultation for studies on ritodrine and other drug kinetics in pregnant women-Dr. Steve Caritis.**

e. Organization:

Member of the Advisory Board for the International Meetings of the Pharmaceutical and Biomedical Analysis - Boston, May 1991.

f. Institutions:

Reviewer: MRC Canada 1991, 1992
NIH, USA 1994
NCCAM/NIH Special Emphasis panel Review committee member
May 2001
CYA study review
Jeffress Memorial Trust 2000

Reviewer: Bank of America – State of Virginia -Foundation proposal
OHIO State Cancer Association Protocol Reviewer - 2002