

CURRICULUM VITAE

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Associate Professor and Research Director, Department of Urology
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PERSONAL

U.S. Citizen, Married with two children

EDUCATION

- 1969 **Bachelor of Science (B.Sc. Honors)** in Biochemistry, Department of Biochemistry, Panjab University, Chandigarh, India
- 1971 **Master of Science (M.Sc. Honors)** in Biochemistry: *Thesis entitled, "Enzyme inhibition by Isatin." Department of Biochemistry, Panjab University, Chandigarh, India.*
- 1978 **Doctor of Philosophy (Ph.D.)** in Biochemical Pharmacology. *Thesis entitled, "An in-vitro study on the production of enzymes and hormone by human placenta". Department of Pharmacology, Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh, India.*
- 1991- present Continuing Education courses in Andrology (Assisted Reproductive Technology); Non-invasive Ultrasound Imaging and Doppler Blood Flow evaluation of erectile dysfunction; NIDDK workshop on Genomics and Proteomics (Washington DC – July 7-10,2001); Molecular Approaches to Therapy in Urological Disease (Houston – August 9-12, 2001); College of American Pathologist (CAP) laboratory inspection program; Sexual Medicine Society of North America;

CERTIFICATION

American Board of Bioanalysis (ABB), High-complexity Clinical Lab Director (HCLD) Andrology (Cert.# 006794)

Clinical Laboratory Improvement Amendments (CLIA) Certificate of Compliance, Centers for Medicare and Medicaid Services, Tulane Andrology Laboratory, (CLIA ID # 19D0695435).

Louisiana State Board of Medical Examiners, Clinical Laboratory Scientist Specialist (Cert.# S00251)

Certified Andrology/Embryology Laboratory Inspector, College of American Pathologists (CAP) Laboratory Accreditation Program; (Certificate # 1000168)

ACADEMIC POSITIONS HELD

- 1971-1972 **Research Assistant, Pharmacology Department**, PGIMER, Chandigarh, India; *Screening of plants for possible anti-fertility actions; bio-availability studies of drugs in human volunteers.*
- 1972-1977 **Senior Research Fellow, Pharmacology Department**, PGIMER, Chandigarh, India; *Influence of drugs on human placental metabolism and function; participated in teaching and laboratory training of post-graduate students in Pharmacology.*
- 1977-1979 **Research Officer, Reproductive Biology Department**, All India Institute of Medical Sciences (AIIMS), New Delhi, India; *WHO project on development of a potential and reversible male infertility intra-vas device; participated in teaching and training of research fellows.*
- 1979-1982 **Research Associate, Department of Biochemistry**, University of Southern California (USC), School of Medicine, Los Angeles; *Isolation, purification and functional incorporation of proteins/enzymes into liposomes; membrane fusion; protein translocation and membrane fluidity changes to evaluate membrane function.*
- 1982-1985 **Director of Urology Research Lab.**, Harbor-UCLA Medical Center; Resident Teaching; *Research focus on male gonadal function and regulation during normal development and age related urologic disorders.*
- 1985-1988 **Assistant Professor (adjunct) and Director of Urology Research Lab.** Harbor-UCLA Medical Center, Department of Surgery, UCLA School of Medicine; *Research and Teaching in male reproductive endocrinology; male gonadal function and regulation; biology of cavernosal smooth muscle cells in sexual function/dysfunction. Participated and promoted the academic endeavors of associated clinical faculties of Urology Department at Harbor-UCLA.*
- 1988-1994 **Assistant Professor of Urology**, and Pharmacology (adjunct), Director of Andrology research and clinical labs, Tulane University School of Medicine; *Research and Teaching in male gonadal function and regulation; gonadal toxicology; sperm biology and cavernosal smooth muscle cell function; clinical diagnosis of male infertility, and penile Doppler ultrasound for diagnosis of organic impotence.*
- 1994-present **Associate Professor of Urology**, and Associate Professor (adjunct) of Pharmacology, Tulane University School of Medicine, Director of Andrology research and clinical labs; *Research and Teaching focused on oxidative stress and signal transduction mechanisms, growth and development of male reproductive organs and associated Urological problems (e.g.; infertility, sexual dysfunction, genitourinary-inflammation, prostatitis); clinical studies related to BPH, male infertility, Peyronie's disease and sexual dysfunction; current interest in molecular and cellular gerontology; calcium homeostasis. Participate and promote the academic endeavors of associated clinical faculties of Urology Department at Tulane.*
- 1991-present **Molecular and Cell Biology Faculty**, Tulane University School of Medicine. *Research and Teaching in oxidative stress signal transduction mechanisms in aging related urological problems (erectile dysfunction, prostate malignancy and their prevention).*

- 1996 - present **Center of Bioenvironmental Research Faculty**, Tulane University School of Medicine. *Research and Teaching on oxidative stress and apoptosis signal transduction mechanisms and role of environmental endocrine disruptors in related urological problems.*
- 1997 - present **Research Director**, Department of Urology, Tulane University School of Medicine. *Promote basic research in the department; enhance the training of residents, fellows and medical students; technology advancement. Responsible for administrative and other duties pertaining to general research and OSHA regulations in the department.*
- 2001- present **Associate Professor (adjunct) of Biochemistry**, Tulane University School of Medicine. *Research and Teaching in oxidative stress and apoptotic signal transduction mechanisms during age related urological problems.*
- 2003 – present **Adjunct Associate Professor, Hayward Genetics Center**, School of Medicine, Tulane University Health Sciences Center, New Orleans, LA. *Role of mitochondrial redox changes during apoptosis.*

HONORS AND AWARDS

- 1969-1971 **Awarded State Merit Scholarship** during post-graduate studies (MSc) in Biochemistry at Panjab University, Chandigarh, India.
- 1973-1977 **Granted Senior Research Fellowship Award** from Council of Scientific and Industrial Research (CSIR), Government of India, for doctoral research.
- 1984 **First Prize**, Joseph F. McCarthy Essay, AUA, Western Section; *Ketoconazole Inhibition of Testosterone Biosynthesis (joint authorship).*
- 1984 **First Place**, Miley B. Wesson Essay, AUA, Western Section; *Impaired Testosterone Biosynthesis in Cryptorchidism (joint authorship).*
- 1985 **First Place**, Joseph F. McCarthy Essay Competition, AUA. *Lowered intratesticular testosterone in varicocele (joint authorship).*
- 1987 **First Prize**, Joseph F. McCarthy Essay, American Urologic Association (AUA), Western Section; *"Cyclosporine Inhibits Testosterone Biosynthesis in Rat Testis" (joint authorship).*
- 1988 Drs. Milly and Steve Lui UCLA-Harbor Collegium Research Award on *"development of rat cavernosal smooth muscle cells in culture"*.
- 1990 Cancer Society of Greater New Orleans (CAGNO) basic research award on *"gonadal cancer chemotherapy"*.
- 1991-1993 a) Research Mentor for three medical students receiving American Foundation of Urological Disease (AFUD) stipends; b) Kyoko Sakamoto - *recipient of "Hume Student Award for Excellence in Urological Research", Tulane University School of Medicine.* c) First Prize Poster, Vth International Congress of Andrology, Tokyo, Japan. *"Role of platelet activating factor and pentoxifylline as human sperm cryoprotectants" (joint authorship).*

- 1994 1st Prize Paper, Southern Medical Association Annual Meeting, *"Stimulation of collagen production in an in-vitro model for Peyronie's disease"* (co-author).
- 1995-1996 Research Mentor for Ben Shenassa, recipient of *"Hume Award for Excellence in Urological Research"*.
- Research Preceptor for M. Rajasekaran, Ph.D., AFUD/Pharmacia Upjohn Sexual Function Health Council Research Scholar. *Role of Aging and Nitric Oxide in Male Sexual Dysfunction*.
- Research Mentor for Ryan Glass, medical student at Tulane, AFUD-Summer Scholar. *Smoking and Impotence in the Rat Model*.
- 1998 Journal of Andrology, Cover-page contribution, (vol 19 (4), 1998) *suggesting effect of ROS generated during leukocytospermia on human sperm motion and energy metabolism*.
- Research Mentor, Hume Student Award for Excellence in Urological Research (Ann Shreshdatta) – joint mentorship.
- Prize Essay (co-author): *Adenoviral gene transfer of endothelial nitric oxide synthase (eNOS) to the penis improves age-related erectile dysfunction in the rat*.
- NIOSH/NIH Study section special emphasis panel member on environmental toxicants.
- US EPA Center of Environmental Research Study Section - *Peer Reviewer*
- 2001 NIOSH/NIH study section on environmental toxicants and reproductive health - *Peer Reviewer (Primary and Secondary reviewer of selective grant proposals)*
- 2003 Guest of Honor/invited speaker - Knowledge Millennium III, Business of Biotechnology, sponsored by ASSOCHAM, New Delhi, India; Inaugural speaker for Delhi Andrology Society sponsored by Delhi Medical Association, New Delhi, India, March 2003.
- 2004 Sexual Medicine Society of North America, Inc., First Prize, best abstract category- *Role of Penile Doppler Ultrasound Evaluation in Men with Peyronie's Disease Undergoing Intralesional Interferon Alpha 2B Therapy*.
- 2004 Chief Guest and Speaker, Delhi Andrology Society (DAS) sponsored symposium on erectile dysfunction (ED), Apollo Hospital, New Delhi, India, February 22nd, 2003.

GRANT AWARDS

Funded Projects:

- 1985-1986 **NIH-BRSG** (GR-4886, \$3,000); *Effect of cyclosporine on male reproductive system in rat. Research and Education Institute (REI), Harbor-UCLA Med. Center, Los Angeles, CA. (Co-Investigator)*
- 1986-1987 **NIH-BRSG** (GR-5163, \$3,000); *Studies on steroidogenic pathway enzymes in testes of rat and man; REI, Harbor-UCLA Medical Center, CA. (Principal Investigator)*

- 1986-1987 **UCLA** Urological Research Foundation Award (\$5,125); *Effects of estradiol on testosterone biosynthesis. (Principal Investigator)*
- 1986-1987 **NIH-BRSG** (GR-5108, \$3,000); *Effect of ketoconazole on steroidogenesis in dispersed Leydig cells. REI, Harbor-UCLA Medical Center, CA. (Co-Investigator)*
- 1986-1987 **NIH-BRSG** (GR-5140, \$21,000); *Equipment grant for Linear Analyzer; Research and Education Institute (REI), Harbor-UCLA Medical Center, CA. (Principal Investigator)*
- 1987-1988 **Sandoz Research Institute** (\$11,500); *Immunosuppression with bromocriptine and cyclosporine in rat allografts; (Drug Study) UCLA, California. (Co-Investigator)*
- 1988-1989 **NIH-BRSG** (GR-5800, \$7,500); *Rat cavernosal smooth muscle cell culture -effect of cyclic nucleotides on calcium release; REI, Harbor-UCLA Medical Center, Los Angeles, CA. (Co-Investigator)*
- 1989-1991 **NIH-BRSG** (#533623, \$7,500); *Androgen dependent events associated with growth and development of rat cavernosal smooth muscle cells in culture; Tulane University School of Medicine, New Orleans, Louisiana. (Principal Investigator)*
- 1989-1991 **Merck, Sharp & Dohme Research Laboratories** (\$80,000); *A double-blind, placebo-controlled study to determine the effect of MK-906 on semen production in male volunteers. Tulane Medical Center, New Orleans, LA. (Co-Investigator)*
- 1990-1992 **CAGNO** (Cancer Association of Greater New Orleans, Inc.) (# 535564, \$7,500). *Evaluation of gonadal protection from damaging effects of cancer chemotherapy. Tulane University School of Medicine, New Orleans, LA. (Principal Investigator)*
- 1991-1993 **Board of Regents** (\$250,000); *Louisiana Education Quality Support Fund (LEQSF) for an EPR Spectrometer. Tulane University School of Medicine, New Orleans, LA. (Co-Investigator)*
- 1991-1995 **DOD-CBR** (#535798, \$235,260); *The assessment of toxicity of newer radioprotector combinations. Center of Bioenvironmental Research-Department of Defense, Tulane University School of Medicine, New Orleans, LA. (Principal Investigator)*
- 1993-1994 **VIVUS, Inc.** (#625983, \$11,955); *In-vitro effects of alprostadil and prazosin on human sperm motion. Tulane University School of Medicine, New Orleans, LA. (Principal Investigator)*
- 1993-1995 **Merck, Sharp & Dohme Research Laboratories** (#626071, \$64,000); *A double-blind, placebo-controlled, multi-center study to determine the effect of FINASTERIDE on semen production in male volunteers. Tulane Medical Center, New Orleans. (Co-Investigator)*
- 1993-1995 **Merck, Sharp & Dohme Research Laboratories** (\$10,560); *Simvastatin and paravastatin male gonadal function study conducted at LSU School of Medicine, Section of Nephrology; sub-contract at Tulane Andrology laboratory. (Principal Investigator)*
- 1993-1996 **DOE-CBR** (#536031, \$596,005); *Assessment of mechanisms of metal-induced reproductive toxicity in aquatic species as a biomarker of exposure. Department of Energy (DOE), Tulane/Xavier Universities, New Orleans, LA. (Cluster project, Co-*

Investigator)

- 1993-1996 **VIVUS, Inc.** (\$200,000); *Clinical studies with MUSE (Medicated Urethral System for Penile Erection). Tulane Medical Center, New Orleans, LA. (Co-Investigator)*
- 1993-1996 **Miles Pharmaceutical Division** (#525630, \$20,780); *Ciprofloxacin in male factor infertility (in-vitro). Tulane Univ. School of Medicine, New Orleans, LA. (Principal Investigator)*
- 1994-1996 **CBR-DOD Cluster Project** (\$307,000) *Investigations on the protection from injurious effects of radiation. Tulane Univ. School of Medicine, New Orleans, LA (Co-Investigator)*
- 1995-1997 **Merck, Sharp & Dohme Research Laboratories** (#094, \$126,051) *Finasteride (MK-906) Male pattern baldness program safety study. Effect on semen production. (Co-Investigator)*
- 1998-1999 **Schering-Oncology Biotech, Inc.** (PIAV-97, \$32,000); *Combined therapy of IFN γ 2B and vitamin E in the treatment of Peyronie's disease. (Co-Investigator)*
- 1999-2000 **Schering-Oncology Biotech, Inc.** (PIA-99, \$24,000); *A single-blind six week, placebo controlled cross over study to assess the safety and efficacy of IFN γ 2b in patients with Peyronie's disease (Co-Investigator).*
- 1999-2001 **Lilly-ICOS LLC Training Grant** (LVCD, \$152,000) *Standardized semen analysis training and quality control management. (Principal Investigator)*
- 1998-2001 **NIH** (RO3-DK5497-02, \$224,420); *Role of metallothionein in prostate tumorigenesis (Co-Investigator)*
- 2000-2001 **Lilly-ICOS LLC** (HGD-MC-LVCD, \$85,000) *A single-blind placebo controlled cross over study to assess the safety and efficacy of IC351 on sperm production (Co-Investigator)*
- 2001-2002 **Bayer Corporation** – *A randomized, double-blind, parallel group comparison of the safety BAY 19-8004 and placebo in male subjects with respect to testicular function (Co-Investigator)*
- 2001-2004 **American Cancer Society, ACS** (\$865,000) – *In vivo differentially expressed genes of prostate cancer: Role of race, age and tumor grade (Co-Investigator)*
- 2002-2003 **Pfizer Pharmaceuticals** – (\$50,000) *Pfizer-Viagra project: Genetic Determinants in Human Cavernal Tissue of Diabetic Impotent Patients who failed Viagra (Principal Investigator).*
- 2003-2005 **Sanofi-Synthelabo Inc.** – *Double-Blind, Double-Dummy, Placebo-controlled Pilot study evaluating the effects of acute treatment with Alpha-Blockers (Tamsulosin and Alfuzosin) on ejaculation in normal volunteers (ALF-ABEJAC)*
- 2003-2005 **Lilly-ICOS LLC Training Grant** (LVFE, \$331,500) *Standardized semen analysis training and quality control management. (Principal Investigator)*

- 2004-2005 **The Cleveland Clinic Foundation** - (\$12,426) *Assessment of fertilizing potential of mouse germ cells matured in vitro. (Co-Investigator)*
- 2004-2005 **The Cleveland Clinic Foundation** - (\$24,304) *Characterization of intracellular ROS in human spermatozoa (Co-Investigator)*
- 2004 - **Tulane- Charity-LSU, General Clinical Research Center** – 03-0064 *A Randomized Controlled pilot trial of diet and exercise versus diet and exercise with mucomyst ABD trenal for treatment of non-alcoholic steatophepatitis (NASH).*

TEACHING and TRAINING: (Tulane University Health Sciences Center)

(A) Departmental Teaching/Training Responsibilities

- a) **Urology Residents/Fellows (30-40 contact hours/year):** *Involved in Basic Science Review Course on gonadal function/dysfunction; evaluation of vascular impotence, and infertility.*

Medical Students (on clinical rotation in Urology) - *About 20 contact hours/year in the fertility and sexual dysfunction clinic (laboratory evaluation of vascular impotence and male factor infertility).*

- b) **Mentor** to the following **medical students** for research training in Urology Department:

- 1991 Asha Voss - Medical Student elective research and American Foundation of Urological Diseases (AFUD) scholar, *"Anti-sperm antibody testing with PTX stimulated cryopreserved sperm."*
- 1991 Eugene Kukuy - AFUD Summer Fellow, *"The biochemical evaluation of the erectile response to different pharmacological agents using the cat model."*
- 1992 Kyoko Sakamoto - AFUD Summer Fellow, *"Usefulness of pentoxifylline stimulated cryopreserved sperm in the evaluation of anti-sperm antibody."*
- 1993 Troy Richards - Medical Student elective research, *"Usefulness of acrosin activity as marker of sperm function after electrical stimulation."*
- 1993 Kathryn Elizabeth Noles - AFUD Summer Fellow, *"In-vitro studies on collagen elaboration in the pathophysiology of Peyronie's disease."*
- 1994 Behnam Ben Shenassa - AFUD Summer Fellow, *"Effect of papaverine, phentolamine and prostaglandin E₁ triple combination on nitric oxide synthase in penile tissue."*
- 1994 Demetrios Simopoulos - Medical Student, *"Immunohistochemical localization of nitric oxide synthase in penile tissue."*
- 1995 Hunter Clay Champion - AFUD Summer Fellow, *"Investigation of adrenomedullin in the feline erection model."*
- 1995 Lance Estrada - Medical Student, *"Effect of cytokines on human sperm parameters."*
- 2000 Ryan Glass - Medical Student - AFUD Summer Fellow, *"Effect of nicotine on rat penile erection response."*

- 2000 Yashwant S. Mehta – “*NOS gene transfer therapy for treatment of male sexual dysfunction.*”
- 2004 Sepehr Nowfar – “*How does the direction of curvature effect penile vascular status in patients with Peyronie’s disease?*”
- 2004 Margaret A Park – “*The Effect of Lysosomal Cystine Storage on Apoptosis.*”
- 2004 Jason M. Miller - “*Connection between BRCA1, BRCA2, and probable connection with Prostate Cancer.*”
- 2004 Natalia B. Hannan – “*The effects of hormonal and nutritional supplementation on BPH and prostate cancer cell proliferation.*”

c) Mentor to the following **fellows** for research training in Andrology:

- 1990 - 1996 Run Wang, M.D. - Research Fellow, “*Studies on sperm motion and stimulation; pharmacological evaluation of penile erection in animal models.*”
- 1991-1995 Mahadevan Rajasekaran, Ph.D.- Post Doctoral Fellow, “*Male reproductive toxicology, sperm function and intervening mechanisms.*”
- 1993-1994 Sunil Ahuja, M.D. - Urology Resident Fellow, “*Effect of antioxidants on collagen production in human cavernosal cell culture system.*”
- 1994 - 1995 Nikolaos Sofikitis, M.D., Ph.D. - Research Instructor (July 3, 1994 - February 1995); “*Use of the feline model for comparison and characterization of erectile response to different pharmacologic agents*” and “*Nicotine/cotinine effects on male reproductive functions.*”
- 1995 Hitoshi Younaihara, Ph.D. - Post Doctoral Fellow, (Mentor Dr. Arimura) – “*PACAP expression during spermatogenesis in rat seminiferous tubules.*”
- 1996-1997 Sushmita Ghosh, Ph.D. - Post Doctoral Fellow, (October 1995 - February 1997). “*DOE project on craw fish; and role of metallothionein on prostate tumorigenesis.*”
- 1996 Carlos Teodosio Da Ros, M.D. - Visiting Observer in Urology and Andrology. (May 1, 1996 - May 30, 1996).
- 1996 Mariano Barcelos Filho, M.D. - Visiting Observer in Urology and Andrology (April 1, 1996 - May 30, 1996).
- 1997 Javier Molina, M.D. - Visiting Fellow in Andrology and Urology (March 1, 1997 - April 20, 1997).
- 1997 S. Bradley Pradel, M.D. - Research Student (June 1997 - July 1997) – “*Effect on pentoxifylline on human sperm acrosome challenge (ARIC) test.*”
- 1998 Charles F. Chehardy, M.D. - Visiting Fellow, “*Effect of spinal cord injury on rat reproductive functions.*”
- 1998- Yogesh Vohra, M.D. – Visiting Fellow, “*High risk factors and pathobiology of prostate cancer.*”

- 1999 Claudio Teloken, M.D. – Visiting Professor and Observing Urologist, Andrology Research, February 1999. “*Phosphodiesterase inhibitors and sperm parameters.*”
- 1999 Maximillian Burger, M.D. – Visiting Scholar, Andrology Research. “*Effect of Sildenafil on human sperm motion and function.*” June – August 1999.
- 2000-2001 Dae Yul Yang, M.D., Andrology Fellow –“*Molecular approaches to sexual dysfunction.*”
- 2000-2001 Jae-Soeg Hyun, M.D., Andrology Fellow –“*Dopamine receptors in rat and human reproductive organs.*”
- 2002-2003 Mustafa Usta, M.D., - Andrology Fellow –“*Molecular studies on diabetes induced erectile dysfunction*”.
- 2003 - Muammer Kendirci, M.D., - Andrology Fellow-
- 2003 - Serap Gur., Ph.D., - Andrology Fellow –

d) Research Preceptor to Pre- and Post-Doctoral Fellows:

- 1991-1994 Michelle Bell, - Cell and Molecular Biology, Graduate Student, Tulane University; Thesis, “*The role of membrane character in human sperm function.*”
- 1996-1998 Mahadevan Rajasekaran, Ph.D. - Sexual function health council research scholar; “*Studies on aging and impotence: Role of androgen and nitric oxide synthase.*”
- 1997-1999 Shaun Jeffrey Armstrong, MCBP - graduate student; “*The Cellular and Molecular Basis of Genitourinary Inflammation and Male Infertility.*”
- 2003- 2005 Xiangbin Zeng, Ph.D., - *Molecular and genetic approaches to benign and malignant prostate cancer detection and prevention.*

(B) Interdepartmental Teaching/Training Responsibilities:

i) Graduate Student Education:

Pharmacology Department: (a) "Advances in Pharmacology (PHR-721)" 10 contact hours/year; (b) Medical Pharmacology Laboratory assignments; (7 contact hours/year). 1995-1998

Anatomy Department: Course A605 entitled: "Reproductive Endocrinology" (1-2 contact hours/year). 1994-1998

Molecular & Cell Biology Graduate Program (MCBP 711); (a) Participation in teaching seminars and retreat presentations, (b) Laboratory rotation: Bo Wang, Fall semester, 1993, (c) Jeff Armstrong, Fall Semester, 1996.

- ii) Capstone Experience Program,** School of Public Health & Tropical Medicine, Department of International Health & Development. Shailesh Hegde (Oct-Dec 1999), Tom Quang Van (Dec 1999 – Oct 2000); Hoa Khong Le Quynh (Oct 2000 – Mar 2001).

iii) Thesis Advisory Committee:

Laura Barkdoll, Department of Pharmacology, Tulane University School of Medicine, "Effect of cobalt on male reproductive function." 1994-1998.

Danielle Gray, Anatomy & Neuroscience Department, Tulane University School of Medicine, 1996-1999.

Tupur Hussain, Graduate Program, Dept. of Pharmacology, Tulane University School of Medicine, 1997-1999.

Amy Elizabeth Green, Molecular and Cell Biology (MCB) Interdisciplinary Graduate Program. "Role of Leptin and Leptin receptor in placental endocrinology and angiogenesis during early pregnancy" 1999-2001.

Erin Ann Collins, Master of Science Thesis in Pharmacology, "Inhibition of farnesyl protein transferase as potential treatment for neurofibromatosis type I" – June 2002.

Brian Keyser, Graduate Program, Dept. of Pharmacology, Tulane University School of Medicine, 2002- ongoing (calcium metabolism in Type 2 diabetics)

Margaret Park, Graduate Program, Hayward Genetics Center, Tulane University School of Medicine, 2003- ongoing (role of mitochondrial redox changes in apoptosis).

iv) MedRep Student Education:

1990 Alexia J. Gordon - "Effect of MK906, a 5-alpha reductase inhibitor on human sperm morphology."

1992 Dionne Blyden - "Effect of electrical stimulation on human sperm morphology."

1993 Nadine Cruz - "In-vitro studies on effects of free radicals on human sperm motion and function."

1994 William Booty – "Effect of sperm stimulatory agent on sperm motion."

1996 Tori Harris – "Evaluation of human sperm morphology after ROS challenge."

1997 Damon Thomas – "Nitrate concentration and seminal plasma."

iv) Others:

1982-1988 Actively participated in the teaching and laboratory training of Urology residents, fellows, and undergraduate students in the Urology Research Laboratory at Harbor-UCLA Medical Center, Torrance, California.

2001- Collaborative research projects involving teaching and training of Urology fellows at Cleveland Clinic Foundation, Cleveland, Ohio.

INVITED LECTURESHIPS

- 1) Society of Young Scientists Meeting, AIIMS, New Delhi, India, "Effect of prostaglandin and oxytocin on placental function." June 20, 1978.
- 2) Reproductive Biology Department, AIIMS, New Delhi, India, Special Lecture, "Effect of cyclosporine on rat testicular steroidogenesis: mechanism of action." August 21, 1987.
- 3) Department of Biological Chemistry and Human Genetics, University of Texas Medical Branch at Galveston, Texas, "Hypogonadal effects of cyclosporine: Mechanism of action." June 12, 1988.
- 4) Department of Anatomy Teaching Lecture, Tulane University School of Medicine, New Orleans, Louisiana, "Use of ultrasound Doppler in the evaluation of vascular impotence." March 21, 1990.
- 5) Department of Pharmacology, Tulane University School of Medicine, New Orleans, Louisiana, "Role of methylxanthines in human sperm motion." October 17, 1990.
- 6) Department of Pharmacology, Tulane University School of Medicine Lecture, "Stimulation of electroejaculated and cryopreserved human sperm by caffeine and pentoxifylline: future trends in male infertility." March 1, 1991.
- 7) Anatomy Seminar, LSU Medical Center, New Orleans, LA, "Pharmacological stimulation of sperm motion in neurologically impaired men undergoing electroejaculation." October 24, 1991.
- 8) Continuing Education Laboratory Medicine Conference, New Orleans, LA, "Male gonadal dysfunction/laboratory investigations." February 6, 1992.
- 9) Endocrine Workshop, Tulane University Medical Center, New Orleans, Louisiana, "In-vivo and in-vitro effects of electric current on recovery of normal human sperm." September 28, 1992.
- 10) Medical Grand Rounds, Veterans Administration Hospital, New Orleans, LA, "Prostate Ultrasound." February 5, 1993.
- 11) The 8th National Noninvasive Diagnosis of Vascular Disease Symposium. St. John's Mercy Center, St. Louis, MO, "Vascular laboratory tests for impotence - what is a complete examination to guide therapy." March 31 - April 2, 1993.
- 12) Department of Biochemistry, Panjab University, Chandigarh, India. "Free radical induced changes in human sperm motion and function." November 9, 1994.
- 13) Grand Rounds, Department of Obstetrics & Gynecology, Tulane University School of Medicine, New Orleans, Louisiana. "Clinical diagnosis of male infertility and assisted reproductive technology." March 22, 1995.
- 14) Department of Biochemistry, USC School of Medicine, Los Angeles. "Oxidative stress and the role of pro-inflammatory cytokines affecting human sperm parameters." April 28, 1995.
- 15) Department of Pharmacology, Tulane University School of Medicine, New Orleans. "Role of Oxidative Stress in Genitourinary Inflammation." March 21, 1997.
- 16) Department of Pharmacology, Gulf University, Bahrain. "Male Infertility: Role of Oxidative Stress and Antioxidants." October 17, 1998.
- 17) Tulane University Hospital and Clinic, New Orleans. "Andrology: Role of Oxidative Stress and

- Antioxidants.” November 13, 1998.
- 18) Department of Pharmacology, Tulane University School of Medicine, New Orleans. “Oxidative Stress Response Elements - Role in Diabetic Induced Impotence.” September 10, 1999.
 - 19) Cleveland Clinic Foundation, Department of Urology, Cleveland, Ohio – “Oxidative Stress Response Elements & their Role in Male Infertility.” September 15, 2000.
 - 20) Department of Biochemistry, Panjab University, Chandigarh, India. “Male Infertility – Role of Reactive Oxygen Species.” November 10, 2000.
 - 21) Department of Medicine, Endocrinology Section, Tulane University Health Sciences Center, New Orleans, Louisiana. “Sexual dysfunction pathophysiology and treatment of vascular organic diagnosis by ultrasound Doppler” January 8, 2001
 - 22) Department of Pathology and Laboratory Medicine Grand Rounds, Tulane University Health Sciences Center, New Orleans, Louisiana. “Role of Genitourinary Inflammation in Pathogenesis of Male Factor Infertility.” March 2, 2001.
 - 23) Department of Pharmacology, Tulane University Health Sciences Center, “Prostate cancer prevention- differential response to oxidative stress and antioxidants”. August 30, 2002.
 - 24) Hayward Human Genetics Center, New Orleans, LA, “Differential cell proliferation and apoptotic response of human prostate to oxidative stress and antioxidants”. November 5, 2002.
 - 25) Tulane Cancer Center, New Orleans, Louisiana, “Differential cellular proliferation and apoptosis of human prostate cancer cells in response to oxidative stress and antioxidants”, February 20, 2003.
 - 26) Hayward Foundation Annual Site Visit, “Male Infertility and the Future of Mitochondrial Genetics”, June 30, 2003
 - 27) Tulane University Medicine Research Conference, “Role of vitamin E and selenium in promoting apoptosis of oxidative stress induced prostate cell proliferation”, October 28, 2003

PROFESSIONAL SOCIETIES/MEMBERSHIPS

- 1) American Society of Andrology
- 2) American Society of Reproductive Medicine (ASRM)
- 3) American Society for Biochemistry and Molecular Biology (ASBMB) - Inactive
- 4) American Urological Association (AUA) – Affiliate Member
- 5) Endocrine Society - Inactive
- 6) Society for the Study of Reproduction (SSR)
- 7) American Association of Bioanalysts (AAB)
- 8) Society for the Study of Male Reproduction (SSMR)
- 9) Sigma Xi, The Scientific Research Society
- 10) Society of Free radical Biology and Medicine (formerly Oxygen Society)
- 11) American Aging Association (AAA)
- 12) Honored Member of Strathmore’s Who’s Who (2002-2003)
- 13) American Men and Women of Science (2004)

EDITORIAL BOARD RESPONSIBILITIES (past and present)

1. Editorial Board - Journal of Andrology (2000-2003)
2. Editorial Board - ARTA (Assisted Reproductive Technology - Andrology) 1999
3. Editorial Board - Frontiers in Bioscience (2002)
4. Selection of Prize Manuscripts – Journal of Andrology (2002)
5. Fertility and Sterility (Ad-Hoc 2002)

EDITORSHIPS (*Peer reviewer of manuscripts/articles submitted for publication*)

1. Journal of Andrology
2. International Journal of Impotence Research
3. American J. Obstetrics & Gynecology
4. Aquatic Toxicology
5. Biochemical Medicine and Metabolic Biology
6. Biology of Reproduction
7. Clinical Science
8. Fertility and Sterility
9. International Journal of Andrology
10. Journal of Reproductive Immunology
11. Journal of Urology (Investigative Urology Section)
12. Reviewer of Abstracts submitted for presentation for American Society of Andrology, ASRM, AUA, and SSR

GRANT REVIEWER

1998	Department of Veterans Affairs, Merit Review Application
1999	Center of Environmental Research-Study Section (1999)
1997-1998	American Foundation of Urological Disease (AFUD)
2002	NIH Special Study Section Panel (Urology) – grants reviewed for clinical faculty

CLINICAL RESPONSIBILITIES

Direct the Clinical Andrology Laboratory Tulane Medical Center Fertility and Sexual Dysfunction Outpatient Clinic. Render the following services in association with the attending physician (40% effort).

- (a) Duplex ultrasound penile blood flow studies (non-invasive) for the evaluation of vascular impotence/priapism, Peyronie's disease patients.
- (b) Ultrasound scanning/imaging of penis (for Peyronie's plaque), scrotal; prostate; and seminal vesicles; participate in ultrasound guided prostate biopsy procedures.
- (c) Complete semen analyses (manual and computerized when required); sperm preparations for Assisted Reproductive Technology (ART) procedures. CLIA registration # (19D0695435).
- (d) Electroejaculation and vibratory stimulation procedures; sperm preparation in men with spinal cord injury for ART procedures. Other assisted reproductive techniques (e.g., sperm stimulation) for male factor infertility. Participation in TESE, epididymal aspiration, and other sperm retrieval procedures for ICSI/cryopreservation.
- (e) Anti-sperm antibody evaluation (direct and indirect) for the diagnosis of immunological

infertility.

- (f) Maintain quality assurance as per CLIA 88; Teaching and training of laboratory personnel; HCFA and OSHA compliance for all laboratory procedures.
- (g) Provide andrology services for various drug study protocols for investigators at Tulane and LSU Medical Centers.

COMMITTEES

(a) Intramural:

- 1985-1988 Committee on Research Resources, Department of Surgery, Harbor-UCLA Medical Center, Torrance, California
- 1987-1988 Achievement Award Board, Department of Health Sciences, County of Los Angeles, Harbor-UCLA Medical Center, Torrance, California.
- 1991-2002 Medical School Student's Selection Interview Process, Tulane Medical School.
- 1993-1995 Senate Committee on Calendar, Voting Member, Tulane University School of Medicine
- 2003-2005 Voting Member, Tulane University Senate

(b) Extramural:

- 1993 Abstract Review Committee, Society of Study of Reproduction.
 - 1993 Abstract Review Committee, American Fertility Society - Reproductive Biology.
 - 1995 Abstract Review Committee, Journal of Andrology
 - 1999-2000 Constitution and Bylaws Committee, American Society of Andrology
- (c) Ph.D. thesis External Review Committee Examiner for students of Panjab University, Chandigarh, India.
- (d) Community Service: volunteered for (a) membership drive for Association of Scientists of Indian Origin in America and a member of the Banquet Committee; (b) Board of Directors American Association of Indian Professionals, New Orleans; (c) Participation in various religious and fund raising drives; (d) New Orleans public school PTA's and as judge in the science fair projects; (e) Boy Scouts of America; (f) Volunteer fund raising for American Cancer Society, American Disabled Veterans, Louisiana Chapter, (g) National Humane Education Society.

Philanthropic Responsibilities

1. Established the "Tulane Urology Laboratory Technology Development Gift Fund" (Approx \$11,500 in 1999; Acct.# 629086).
2. TMC Challenge Committee Member (1990) – Fund raising for the south wing of Tulane University Hospital; also voluntary contributor for the same.

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BOOK CHAPTERS

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