

CURRICULUM VITAE

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Professor and Research Director, Department of Urology
Adjunct Professor of Pharmacology, Biochemistry, & Human Genetics
Director of Andrology Research & Clinical Laboratories
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PERSONAL U.S. Citizen, Married with two children

EDUCATION

- 1969 **Bachelor of Science (B.Sc. Honors)** in Biochemistry *with Microbiology and BioPhysics as subsidiaries*: 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 (ART/toxicology); Non-invasive Ultrasound Imaging and penile Doppler Blood Flow evaluation; NIDDK workshop on Genomics and Proteomics (Washington DC, July7-10,2001); Molecular Approaches to Therapy in Urological Disease (Houston, August9-12,2001); College of American Pathologist (CAP) laboratory inspection program; CAP sperm morphology instruction webcast; Free radical biology sun-shine course (FRBM); Cancer prevention workshop (AACR); Erectile dysfunction symposium (SMSNA); Clinical coordinator Webcast (Indevus); Andrology Lab Workshop (ALW) instructor-Sperm morphology; S/E-Q/C,Q/A (ASA 2004, 2006-2019)

CERTIFICATIONS

American Board of Bio-analysis (ABB), Clinical Consultant (CC)/Andrology, and High-complexity Clinical Lab Director (HCLD) Andrology (Certificate # 006794)

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

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

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 at Harbor-UCLA Medical Center.*
- 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 reproductive toxicology & male gonadal function and regulation; sperm biology; cavernosal smooth muscle function; clinical diagnosis of male infertility, and penile Doppler ultrasound for diagnosis of organic impotence.*
- 1994-2005 **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.

- July 2005- **Professor of Urology, and adjunct professor of Pharmacology, Biochemistry, and Hayward Genetics Center**, School of Medicine, Tulane University Health Sciences Center, New Orleans, LA.
- 2005-2006 **Visiting Professor** (post-Katrina), Department of Structural and Cell Molecular Biology, University of Texas Medical Branch (UTMB), Galveston, Texas.
- 1991-present **Molecular and Cell Biology Faculty**, Tulane University School of Medicine. *Research and Teaching in oxidative stress signal transduction mechanisms in aging related problems (erectile dysfunction, prostate malignancy, GUI/LUTS 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, post-graduate and medical students; Responsible for administrative and other duties pertaining to general research, OSHA regulations, technology advancement etc. in the department.*

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 "*Hume Award for Excellence in Urological Research*". Research Mentor for Ben Shenassa, award recipient.
- 1993 -1995 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.*
- 1996 Research Mentor for Ryan Glass, medical student at Tulane, AFUD-Summer Scholar. Smoking and Impotence in the Rat Model.
- 1997 Research Mentor, Hume Student Award for Excellence in Urological Research (Ann Shreshdatta) – joint mentorship.
- 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.
- 1999 Prize Essay (co-author): Adenoviral gene transfer of endothelial nitric oxide synthase (eNOS) to the penis improves age-related erectile dysfunction in the rat.
- 1999 NIOSH/NIH Study section special emphasis panel member on environmental toxicants.
- 2000 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;
- 2003 Inaugural Speaker for Delhi Andrology Society (DAS) sponsored by Delhi Medical Association, New Delhi, India, March 2003. International consultant to DAS.
- 2003 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 Tulane University Senator; member of committee on facilities and space allocation.
- 2004 Chief Guest, Delhi Andrology Society (DAS) sponsored symposium on erectile dysfunction (ED), Apollo Hospital, New Delhi, India, February, 2004.
- 2004 Research Excellence Award in the field of Andrology Research, given by The Cleveland Clinic Foundation of Glickman Urological Institute and Department of Obstetrics-Gynecology, Cleveland, Ohio.
- 2004 Chief Guest and Chairman, Delhi Andrology Society sponsored special symposium, “Meet the Master - Andrology issues in fertility practice and ejaculatory disorders”, November 2004, New Delhi, India.
- 2005 Panel Discussant and speaker at Winter Research Meeting of Sexual Medicine Society of North America, Inc. (SMSNA), January 2005, New Orleans, Louisiana.
- 2005 NIOSH/NIH CDC-study section on environmental toxicants and reproductive health - *Peer Reviewer (Primary and Secondary reviewer of selective grant proposals) March*
- 2005 Provisional patent application filed with Tulane University for the role of TRPM2 calcium channel in benign and malignant prostate cancer (joint with Dr. Li).
- 2005 Chief Guest, Andrology Society of India/Delhi Andrology Society sponsored special symposium, “Sexuality and Erectile Dysfunction, current oral therapy”, November 2005, Apollo Hospitals, New Delhi, India
- 2006 -2009 Editorial Board Member, J. Sexual Medicine. In addition, responsible for co-editing the Laboratory Forum Section for J. Sexual Medicine.
- 2007 Speaker at the Grand Rounds at Mehary Medical College in Nashville, TN.
- 2009 Faculty of Andrology Lab Sperm Morphology Quality Control Consensus Workshop, ASA meeting, Philadelphia, PA, April 2009.
- 2010 Expert panel presentation for Standardization of penile U/S Doppler at SMSNA meeting in conjunction with Annual AUA meeting in San Francisco, May 2010.
- 2011- to date Honorary Chairman of Reproductive Andrology/Urology at Amity Univ., Noida, India
- 2015 First prize, basic science, scientific presentation at SMSNA meeting, Las Vegas.
- 2015 Invited to write and edit “*Handbook of Bioenvironmental Toxicology: Men's Reproductive and Sexual Health*” published by Elsevier Inc.
- 2016 Outstanding Trainee Investigator Award, PhD student (Namrata Khurana), 41st ASA Meeting

- 2021 Outstanding Paper Award from Asian Journal of Andrology for article “Multi-center evaluation of oxidation-reduction potential by the MiOXSYS in males with abnormal semen”
- 2022 Chair, Andrology Laboratory Workshop 2022, American Society of Andrology
- 2023 Chair, Andrology Laboratory Workshop 2023, American Society of Andrology

GRANT AWARDS

(A) Funded Projects (Research/Training):

- 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 IFN2b 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)

- 1999-2003 **NIH** (RO3-DK5497-01, \$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** (\$78,000) - *A randomized, double-blind, parallel group comparison of the safety of BAY 19-8004 and placebo in male subjects with respect to testicular function (Co-Investigator)*
- 2001-2004 **American Cancer Society, ACS** (RO1- \$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 Cavernosal Tissue of Diabetic Impotent Patients who failed Viagra (Principal Investigator).*
- 2003-2004 **Sanofi-Synthelabo Inc.** (\$51,200) - *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); Standardized semen analysis training, analysis, and quality control management. (Principal Investigator)*
- 2003-2005 **Lilly-ICOS LLC Training Grant** (LVFE, \$ 414,375) *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)*
- 2004-2006 **Bayer Corporation Training Grant** (Study 11520, \$249,338) - *A randomized, double-blind, placebo controlled, parallel arm, multicenter trial assessing the effect of daily treatment of Vardenafil or Sildenafil compared to placebo on spermatogenesis and reproductive hormones in healthy males with mild erectile dysfunction. Standardized semen analysis training and quality control management. (Principal Investigator)*
- 2005-2006 **Alteon Inc.** (Alagebrium Study, ALT-711-0423; \$174,056) - *A randomized, double-blind, placebo-controlled, pilot study of the effect of Alagebrium in male diabetic patients with erectile dysfunction on PDE-5 inhibitor therapy. (Sub-Investigator)*
- 2006-2008 **Indevus Pharmaceuticals, Inc.** (Study IP157-001)- *A two-arm, open-label, randomized, multi-center pharmacokinetic and long term safety study of intramuscular injections of 750mg and 1000mg testosterone undecanoate in hypogonadal men. (Sub-investigator)*

- 2006-2008 **Bristol Myers** (CN148-014; \$536,250) - Tulane S/E training and standardized semen analysis quality control management for Multicenter clinical trial. (**Principal Investigator**)
- 2007-2009 **Bayer Study** (38-9456)- Orodispersible Tablet Vardenafil (Sub-investigator).
- 2008-2012 **Pfizer Study** (A0081104; \$656,250) for Standardized Semen Analysis Training & Quality Control Management and Sperm Morphology Central Reader services for Multicenter clinical trial (**Principal Investigator**).
- 2009-2011 Training & Central Reader services (Study **TDR-11215**; \$2,281,736) for Standardized Semen Analysis Training & Quality Control Management and sperm morphology central reader services for Multicenter clinical trial (**Principal Investigator**).
- 2010-2012 Training & Central Reader services (Study **WC-PR 00110**; \$1,800,400) for Standardized Semen Analysis Training & Quality Control Management and sperm morphology central reader services for Multicenter clinical trial (**Principal Investigator**).
- 2012-2014 Training & Central Reader services (Study-**TA401**; \$2,813,160) for Standardized Semen Analysis Training & Quality Control Management and sperm morphology central reader services for multicenter clinical trial (**Principal Investigator**).
- 2014-2016 Partial Training & Central Reader services (Clinical Protocol # **M12-919**; \$340K) for Sperm Morphology Central Reader services for Multicenter clinical trial, “A Single-Country, Multicenter, Single-Arm Study on Spermatogenesis and Testicular Function” (**Principal Investigator**).
- 2015-2017 Training & Central Reader services (Study-**OS440-PKP06**; \$770,640) for Standardized Semen Analysis Training & Quality Control Management and sperm morphology central reader services for multicenter clinical trial (**Principal Investigator**).
- 2017-2025 Training & Central Reader services (Study-**GS-US-417-3910**;\$14,122,118.00) for Standardized Semen Analysis Training & Quality Control Management and sperm morphology central reader services for multicenter clinical trial (**Principal Investigator**).
- 2022 School of Medicine Pilot Funding Award (**Tulane University**, \$25,000) “Sperm Telomere Length as a Novel Diagnostic Marker of DNA Damage Associated with Oxidative Stress due to Leukocytospermia” (**Mentor**)

TEACHING and TRAINING: (Tulane University Health Sciences Center)

(A) Departmental Teaching/Training Responsibilities

- a) **Urology Residents/Fellows** - About 20 - 40 contact hours/year on gonadal function/dysfunction; Doppler U/S evaluation of vascular impotence, male infertility and ART

Medical Students (on clinical rotation in Urology) - *About 15-20 contact hours/year in the fertility and sexual dysfunction (Doppler U/S evaluation of vascular impotence and male factor infertility).*

b) Mentor to the following Tulane students for research training:

- 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."*
- 1996 Steve Mahoney – Medical Student – *"Sperm stimulation protocol and effect on HOST"*
- 2000 Ryan Glass - Medical Student - AFUD Summer Fellow, *"Effect of nicotine on rat penile erection response."*
- 2000 Yashwant S. Mehta - AFUD Summer Fellow and Medical Student – *"Role of NOS in BPH"*
- 2004 Sepehr Nowfar – *"How does the direction of curvature effect penile vascular status in patients with Peyronie's disease?"*
- 2004 Margaret A Park – Human Genetics Department, *"The Effect of Lysosomal Cystine Storage on Apoptosis."*
- 2004 Jason M. Miller – Human Genetics Department - *"Connection between BRCA1, BRCA2, and probable connection with Prostate Cancer."*

- 2004 Natalia B. Hannan Medical Student – *“The effects of hormonal and nutritional supplementation on BPH and prostate cancer cell proliferation.”*
- 2004 Dena Walsh (medical student) – *“comparison of in vitro effects of Tadalafil and Sildenafil on human sperm motion and function.”*
- 2005 Shivani Jain, undergraduate student – placed first in science fair in her school for her poster presentation on *“effect of cholesterol and antioxidants on prostate cancer cell progression”*
- 2006 Landon Trost (medical student) – *“Peyronie’s disease and associated risk factors.”*
- 2008-09 Andrew Harbin (medical student) – *“Effect of stretch injury to cavernosal nerve on erectile function in rat model”.*
- 2013 Louis A. Aliperti (medical student) – *“Effect of Pioglitazone on post-prostatectomy erectile dysfunction in rat model”.*

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/cotine 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.*”
- 1998-1999 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 - 2004 Muammer Kendirci, M.D., - Andrology Fellow - “*Molecular approaches to sexual dysfunction, and Peyronie’s disease evaluation and therapy.*”
- 2004 -2005 Asli Baykal (from Turkey) - Andrology Fellow, “*comparison of in vitro effects of Tadalafil and Sildenafil on human sperm motion and function*”
- 2006 - 2008 Levent Gurkan, MD, Ph.D., -Andrology Fellow – “*Molecular studies of sexual dysfunction and Peyronie’s disease issues in men.*”
- 2004 - Serap Gur., Ph.D., - Andrology Fellow – “*Evaluation of cavernosal biology responses in isolated organ bath preparations*”
- 2013 -2014 Landon Trost, MD (Andrology fellow) – “*Reproductive issues and sexual health in male patients attending Andrology clinics*”
- 2014 Ronny Tan, MD (Andrology fellow) – “*Reproductive issues and sexual health in male patients attending Andrology clinics*”
- 2013- 2015 Preamsant Sangkum, PhD (Andrology fellow) – “*Reproductive issues and sexual health in male patients attending Andrology clinics*”
- 2014- 2016 Faysal A Yafi, MD (Andrology fellow) – “*Reproductive issues and sexual health in male patients attending Andrology clinics*”

- 2017-2018 Laith Alzweri, MD (Andrology fellow) – *“Reproductive issues and sexual health in male patients attending Andrology clinics”*
- 2018-2019 Le Tan, MD (Andrology fellow) – *“Reproductive issues and sexual health in male patients attending Andrology research & clinics”*
- 2021-2022 Wael Almajed, MD (Andrology fellow) – *“Reproductive issues and sexual health in male patients attending Andrology research & clinics”*

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

- 1991-1994 Michelle Bell, - PhD student - 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.*
- 2004-2005 Nilgun Gurbuz – Ph.D student from Akdeniz University Antalya, Turkey; *“The Cellular and Molecular mechanisms involved in BPH progression and prevention- role of antioxidants”*
- 2012-2015 Sharika L. Hagen – post doctoral fellow – *“Effect of genitourinary inflammation on reproductive issues and prostate health in male – molecular approaches”*
- 2014-2016 Jaideep Toor - post doctoral fellow – *“Effect of genitourinary inflammation on reproductive issues and men’s health with focus on redox changes, H2S, and molecular approaches”*
- Jan. 2017- Ahmet Ayaz - post doctoral fellow - *“Effect of genitourinary inflammation on reproductive issues and men’s health with focus on redox changes, ORP and proteomic contents”*
- 2014 - 2019 Namrata Khurana – PhD doctoral student – *“Targeting of Nrf2-PERK signaling by Sulforaphane and Nelfinavir combination: A safe approach to sensitize aggressive Prostate Cancer for effective therapy.”*
- 2020 - 2021 Jaideep Toor - post doctoral fellow – *“Effect of genitourinary inflammation & oxidative stress parameters on reproductive issues and men’s health with focus on redox changes & telomere mechanisms using molecular approaches”*

e) Junior Faculty:

Feb 2021- Manesh Kumar Panner Selvam, PhD – Research Instructor – Andrology Research

(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:

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

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

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

1999-2001 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*".

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

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

2003-2005 Margaret Park. Graduate Program, Hayward Genetics Center, Tulane University School of Medicine, (*Cysteinylation of PKC delta by lysosomal cystine enhances apoptosis in cultured cells.*)

iv) MedRep/Pre-med 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."

2022 Sydney Ambrose & Brooke Turner - PIPE (Purposeful Infrastructure Promoting Equality) Scholars Program students successfully completed their summer training in Urology Labs at Tulane.

v) 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, teaching and training of Urology fellows at Center for Advanced Research in Human Reproduction, Infertility and Sexual Function, 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) Cleveland Clinic Foundation, Department of Urology, Cleveland, Ohio – "Standardized semen

- analysis training process and quality control management,” January 28, 2003
- 26) 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.
 - 27) Hayward Foundation Annual Site Visit, “Male infertility and the future of mitochondrial genetics”, June 30, 2003
 - 28) Tulane University Medicine Research Conference, “Role of vitamin E and selenium in promoting apoptosis of oxidative stress induced prostate cell proliferation”, October 28, 2003
 - 29) Knowledge Millennium III, Business of Biotechnology, sponsored by ASSOCHAM, New Delhi, India. “Business of Viagra”, March 17, 2003.
 - 30) Inaugural speaker for Delhi Andrology Society (DAS), Delhi Medical Association (DMA) sponsored symposium on “Role of oxidative stress in infertility, and what you need to know about erectile dysfunction”, New Delhi, India, March 21, 2003.
 - 31) Delhi Andrology Society (DAS) symposium on “Current oral therapies for erectile dysfunction (ED) and pharmacokinetic profiling”, Apollo Hospital, New Delhi, India, February 22, 2004.
 - 32) Bayer Pharmaceutical Investigator’s Meeting, “Standardized semen analysis training process for multicenter trials and quality control management”, Chicago, October 23, 2004.
 - 33) International Symposium on Geriatric Urology and Uro-Oncology sponsored by USICON, “Pathophysiology of ejaculatory disorders”, New Delhi, India, November 20, 2004.
 - 34) Invited Speaker, Delhi Andrology Society sponsored special symposium on “Pathophysiology and management of ejaculatory disorders” and “Andrology issues in a fertility practice”, New Delhi, India, November 23, 2004.
 - 35) Sexual Medicine Society of North America (SMSNA), “Hormones and sexual dysfunction”, Winter Research Meeting, New Orleans, January 14, 2005.
 - 36) Delhi Andrology Society (DAS) symposium on “Update on current oral therapies for erectile dysfunction (ED) and pharmacokinetic profiling”, Apollo Hospital, New Delhi, India, November 19, 2005.
 - 37) Cleveland Clinic Foundation, Department of Urology, Cleveland, Ohio – “Role of oxidative stress in erectile dysfunction, and what you need to know about PDE5 inhibitors,” February 24, 2006.
 - 38) Hayward Human Genetics Center, New Orleans, LA, “Pathophysiology and management of erectile dysfunction by PDE5 inhibitors”. March 7, 2006.
 - 39) Hayward Human Genetics Center, New Orleans, LA, “Tulane Andrology Semen Analysis Training Program and Quality Control Management for Multicenter Clinical Trials”. April 10, 2007.

- 40) Tulane Endocrinology Grand Rounds, “Male Infertility and Sexual Dysfunction.” April 10 and 19, 2007.
- 41) Endocrinology Fellows Grand Rounds, “Male Infertility and Reproductive Endocrinology.” February 12, 2009
- 42) Endocrinology Fellows Grand Rounds, “Male Hypogonadism and Sexual Dysfunction.” April 23, 2009
- 43) Keynote speaker at APFA meeting, Nanjing, China, “Standardized semen analysis program at Tulane”, October 2009
- 44) Invited Speaker, Apollo Hospital Urology Dept. “Andrology- past, present and future”, Dec 02, 2010
- 45) Invited speaker, Amity University, NOIDA, India, - “Male Reproductive Issues and Prostate Health - role of environment.” December 2011
- 46) Grand round lecture to Endocrinology Fellows, “Role of Oxidative Stress and Antioxidants in Andrology and Assisted Reproductive Technology”, April 26, 2012.
- 47) Keynote speaker at 10th International Symposium on Pharmaceutical Sciences (ISOPS-10), Ankara, Turkey, “Gonadotoxicity in male– Role of standardized S/E in multicenter format”, June 26-29, 2012.
- 48) Invited speaker, Amity University, NOIDA, India,- “Cancer prevention and treatment symposium - role of stem cells.” Nov. 2013
- 49) Invited Speaker, World Meeting on Sexual Medicine, Sao Paulo, Brazil, “Standardized penile Doppler presentation”, October 8-12, 2014
- 50) Invited Speaker and Faculty, Summer workshop, Cleveland Clinic Foundation, Section of Andrology, Department of Urology, Cleveland, Ohio, July-August 2015.
- 51) Invited Speaker, World Meeting on Advances in Urology, Warsaw, Poland, “Standardized semen analysis program at Tulane”, October 29-31, 2015.
- 52) Keynote Speaker and Session Chair - 49th Annual Conference of Indian Pharmacological Society & International Conference – (IPSCON-2016) – PGI Chandigarh, October 21-23, 2016.
- 53) Grand round lecture to Tulane Endocrinology Fellows, “Male Hypogonadism and Sexual Dysfunction.”, June 01, 2017.
- 54) Workshop presenter and invited Speaker, World Meeting of ISSM, Lisbon, Portugal on “Standardized penile Doppler SOP presentation”, March 1- 5, 2018
- 55) Lecture on “Advanced Semen Testing in WHO 2021 – Role of Oxidative Stress and Sperm DNA Damage Evaluation”, Andrology Laboratory Workshop: Emerging Technologies in

Laboratory Testing for Male Reproduction, May 7, 2022

- 56) Interactive workshop on “SOP for Duplex Ultrasound in Assessment of Erectile Dysfunction”, Andrology Laboratory Workshop: Emerging Technologies in Laboratory Testing for Male Reproduction, May 7, 2022

PROFESSIONAL SOCIETIES/MEMBERSHIPS (past and present)

- 1) American Society of Andrology (ASA) – **active**
- 2) American Society of Cancer Research (AACR)
- 2) American Society of Reproductive Medicine (ASRM)
- 3) American Society for Biochemistry and Molecular Biology (ASBMB)
- 4) American Urological Association (AUA) – Affiliate Member - **active**
- 5) Endocrine Society - inactive
- 6) Society for the Study of Reproduction (SSR) - inactive
- 7) American Association of Bioanalysis (AAB) - inactive
- 8) Society for the Study of Male Reproduction (SSMR) - inactive
- 9) Sigma Xi, The Scientific Research Society - inactive
- 10) Society of Free Radical Biology and Medicine (formerly Oxygen Society) - inactive
- 11) American Aging Association (AAA) - inactive
- 12) Honored Member of Strathmore’s Who’s Who (2002-2003)
- 13) American Men and Women of Science (2004)
- 14) Academic Keys Who’s Who in Medical Sciences Education (WWMSE) (2005)
- 15) Sexual Medicine Society of North America (SMSNA) – **active**
- 16) International Society of Sexual Medicine (ISSM) - **active**

EDITORIAL BOARD RESPONSIBILITIES

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)
6. Asian Journal of Andrology (AJA) – current
7. Editorial Board - Journal of Sexual Medicine (JSM) and in charge of “Laboratory Forum” section (2006-2009)
8. Selected as Chair, ASA – Andrology Laboratory Workshop Committee 2021-2023.

EDITORSHIPS

A) **Editor – *Bioenvironmental Issues Affecting Men's Reproductive and Sexual Health***, Academic Press , Elsevier Inc.; September 2017.

- B) **Others** - (*Peer reviewer of manuscripts/articles submitted for publication to following journals*)
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. British Journal of Urology
11. Journal of Reproductive Immunology
12. Journal of Urology (Investigative Urology Section)
13. Asian Journal of Andrology (AJA)
14. Reviewer of Abstracts submitted for ASA, ASRM, AUA, SSMNA and SSR annual meetings
15. Other Journals for which the Clinical Faculties receive manuscripts for reviews.
16. Human Reproduction
17. Journal of Sexual Medicine

GRANT REVIEWER

- | | |
|-------------|---|
| 1998 | Department of Veterans Affairs, Merit Review Applications. |
| 1999 & 2000 | NIH Special Study Section Panel, Center of Environmental Research, NIOSH. |
| 1997-2001 | American Foundation of Urological Disease (AFUD)- grants reviewed for clinical faculty |
| 2002 | NIH Special Study Section Panel (Urology) – grants reviewed for clinical faculty. |
| 2002 | National Research Council of Canada, Reproductive toxicology grant reviewer. |
| 2005 | NIOSH/Special Emphasis Panel (SEP) – Occupational Exposure Risk on Reproduction/Development |
| 2006 | AUA-Pfizer Research Awards |
| 2007 | Philip Morris External Research Program – Reproductive Toxicology |
| 2008 | Natural Sciences and engineering Research Council of Canada – Reproductive Toxicology section “Disrupted estrogen signaling: impacts on mouse male reproduction”. |

CLINICAL RESPONSIBILITIES (40-50 % efforts):

Tulane Health Sciences Center Fertility and Sexual Dysfunction Outpatient Clinic. Direct the activities of Clinical Andrology Laboratory rendering the following services in association with the attending physicians of Urology (mainly Dr. Wayne Hellstrom) and Obstetrics/Gynecology (mainly Dr. Ron Clisham) departments.

- (a) **Complete semen analyses** (manual and computerized when required); sperm preparations for Assisted Reproductive Technology (ART) procedures. CLIA registration # (19D0695435).
- (b) **Duplex ultrasound penile blood flow** studies (non-invasive) for the evaluation of vascular impotence, high flow/low flow priapism, and Peyronie’s disease patients.
- (c) **Ultrasound scanning/imaging** of penis (for Peyronie's plaque), scrotal; prostate/seminal vesicles; earlier participated in ultrasound guided prostate biopsy procedures.
- (d) **Electroejaculation and vibratory stimulation** procedures in men with spinal cord injury; collection and preparation of sperm for ART procedures. Other assisted reproductive

techniques (e.g., sperm stimulation) for male factor infertility.

- (e) Participate in **TESE, epididymal aspiration**, and other sperm retrieval procedures and arrange for ICSI/cryopreservation.
- (f) **Anti-sperm antibody evaluation** (direct and indirect) for the diagnosis of immunological infertility.
- (g) Monitor **Quality Control (Q/C)** and maintain **Quality Assurance (Q/A) as per CLIA 88**; Teaching and training of laboratory personnel/medical students/residents; HCFA, OSHA, and HIPPA compliance for all laboratory procedures. Prepare and organize proper documentation for state inspection for CLIA certification. Maintain CME hours as per the ABB and state requirements.
- (h) Provide **Andrology services for various drug study protocols** for various investigators.
- (i) **Clinical Study Coordinator** – IRB human subjects, study patient, scheduling, dosing and electronic data transfer, etc. in association with attending physician.
- (j) **Clinical Studies (PI)** – “*Prospective and retrospective analysis and evaluation of semen fluid obtained from men individuals (2020-1192-OTH)*”; “*Retrospective and prospective chart review of penile duplex database (2020-1105)*”;

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 students’ selection interview process, Tulane Medical School.
- 1993-1995 Senate Committee on Calendar, Voting Member, Tulane University School of Medicine
- 2003-2006 Voting Member, Tulane University Senate. Also member of committee on facilities and space allocation.
- 2006 Tulane General Medical Faculty Nominating Committee

(b) Extramural:

- 1993 Abstract Review Committee, Society of Study of Reproduction.
- 1993 Abstract Review Committee, American Fertility Society - Reproductive Biology.
- 1994 Ph.D. thesis External Review Committee Examiner (e.g., Purnima of Biochemistry Department, Panjab University, Chandigarh, India).
- 1995 Abstract Review Committee, Journal of Andrology.
- 1999-2000 Constitution and Bylaws Committee, American Society of Andrology.
- 2015-2016 Chair local organizing Committee, 2016 ASA Annual meeting in New Orleans

COMMUNITY SERVICE:

- (a) Membership drive, Association of Scientists of Indian Origin in America and a member of the Banquet Committee.
- (b) Board of Directors and Joint Secretary, American Association of Indian Professionals (AAIP), 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 and American Disabled Veterans, Louisiana Chapters.
- (g) National Humane Education Society.
- (h) Beacon of Hope post-Katrina Louisiana Rebuilding Volunteer Efforts

PHILANTHROPIC ACTIVITIES

- 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.

BIBLIOGRAPHY

PUBLICATIONS (>200 manuscripts in peer reviewed journals, >30 book chapters, >250 abstracts)

1970's

1. Sharma PL, Garg SK and **SIKKA SC**: A comparative study of the absorption of xanthinol nicotinate from slow-release and plain tablets in man. Intern J Clin Pharm Therap. Toxicol. 1973 7:299-302.
2. Jayaraman S, **SIKKA SC**, Mathur VS and Devi PK: Hormonal and enzymatic changes during mid-trimester abortion with PGF_{2a}. Ind J Pharm 1974;6:88-91.
3. Jayaraman S, **SIKKA SC**, Raghavan KS and Mathur VS: Oxytocinase production in perfused human placentome. Am J Obstet. Gynecol 1975;123:215-217.
4. Jayaraman S, **SIKKA SC**, Raghavan KS, Dhall K, Rastogi GK and Mathur VS: Plasma cysteine aminopeptidase (CAP), heat-stable alkaline phosphatase (HSAP) as an index of placental function. Annals of National Academy of Medical Sciences (India) 1977:1339-41.
5. **SIKKA SC**: An in-vitro study on production of enzymes and hormones by human placenta. Reviewed and accepted for Ph.D. thesis, PGIMER, 1978.

1980's

6. Safaya S, **SIKKA SC**, Sharma BR and Laumas KR: A comparative evaluation of

- spermicidal activities of iron salts. *Ind J Exp Biol.* 1979;17:465-468.
7. **SIKKA SC** and Kalra VK: Gamma glutamyl transpeptidase mediated transport of amino acids in lecithin vesicles. *J Biol. Chem.* 1980; 255:4399-4402.
 8. Kalra VK, **SIKKA SC** and Sethi GS: Transport of amino acids in gamma glutamyl transpeptidase implanted human erythrocytes. *J Biol. Chem.* 1981;256:5567-5571.
 9. **SIKKA SC**, Green AG, Chauhan V and Kalra VK: Proteoliposomes interaction with human erythrocyte membranes - functional implantation of gamma glutamyl transpeptidase. *Biochemistry* 1982;21:2356-2366.
 10. Chauhan V, **SIKKA SC** and Kalra VK: Phospholipid methylation of kidney cortex brush border membranes: effect on fluidity and transport. *Biochem Biophys Acta.* 1982;688:357-368.
 11. Green GA, **SIKKA SC** and Kalra VK: Differential turnover of methyl groups on methyl accepting membrane proteins of irreversibly sickled erythrocytes. *J Biol. Chem.* 1983;258:12958-12966.
 12. **SIKKA SC**, Swerdloff RS and Rajfer J: *In vitro* inhibition of testosterone biosynthesis by ketoconazole. *Endocrinology* 1985;116:1920-1925.
 13. Farrer JH, **SIKKA SC**, Xie HW and Rajfer J: Impaired testosterone biosynthesis in cryptorchidism. *Fertility and Sterility* 1985;44:125-132.
 14. Rajfer J, **SIKKA SC**, Xie HW and Swerdloff RS: Effect of *in vitro* ketoconazole on steroid production in rat testis. *Steroids* 1985;46:867-881.
 15. **SIKKA SC**, Swerdloff RS and Rajfer J: Assay system for simultaneous measurement of three steroidogenic enzyme activities in rat and human testis: effect of human chorionic gonadotropin. *Analytical Biochemistry* 1986;149:72-86.
 16. Bhasin S, **SIKKA SC**, Fiedler T, Sod-Moriah V, Swerdloff RS and Rajfer J: Hormonal effects of ketoconazole in the male rat; mechanism of action. *Endocrinology* 1986;118:1129-1132.
 17. Rajfer J, Handelsman D, Swerdloff RS, Farrer J and **SIKKA SC**: Luteinizing hormone (LH) and Follicle-stimulating hormone (FSH) responses to intranasal gonadotropin releasing hormone (GnRH). *Fertility and Sterility* 1986;45:794-799.
 18. Rajfer J, **SIKKA SC**, Rivera F and Handelsman D: Mechanism of inhibition of human testicular steroidogenesis by oral ketoconazole. *J. Clin. Endocrinol. Metabol.* 1986;45:794-799.
 19. Agatstein EH, **SIKKA SC**, Koyle MA and Rajfer J: Effect of Radiation on testicular steroidogenesis in the rat. *Surgical Forum* 1986;37:627-629.
 20. Koyle MA, **SIKKA SC**, Lemmi C and Rajfer J: Cyclosporine inhibits testosterone

- biosynthesis in the rat testis. *Endocrinology* 1987;121:586-589.
21. Rajfer J, **SIKKA SC** and Swerdloff RS: Lack of direct effect of gonadotropin releasing hormone (GnRH)-agonist on human testicular steroidogenesis. *J. Clin. Endocrinol. Metab.* 1987;64:62-67.
 22. Rajfer J, Turner T, Rivera F, Howards S and **SIKKA SC**: Inhibition of testicular testosterone biosynthesis following experimental varicocele in rats. *Biology of Reproduction* 1987;36:933-937.
 23. Aaberg RA, **SIKKA SC**, Sauer MV and Rajfer J: Effect of extracellular ionized calcium, diltiazam and cAMP on human spermatozoa motility. *J. Urology* 1989; 141:1221-1224.
 24. **SIKKA SC**, Koyle MA, Swerdloff RS and Rajfer J: Reversibility of cyclosporine induced hypoandrogenism in rats. *Transplantation* 1988;45:784-788.
 25. Handelsman DJ, Peng S, **SIKKA SC**, Swerdloff RS and Rajfer J: Effects of GnRH-analogs on cis-platinum induced spermatogenic damage. *Intl. J. Andrology* 1988;11:425-435.
 26. **SIKKA SC**, Bhasin S, Coy DC, Koyle MA, Swerdloff RS and Rajfer J: Effect of cyclosporine on hypothalamic-pituitary-gonadal axis in the male rat: mechanism of action. *Endocrinology* 1988;123:1069-1074.
 27. **SIKKA SC**, Coy DC, Lemmi C and Rajfer J: *In vitro* effects of cyclosporine on testosterone production by rat testis. *Transplantation* 1988;46:886-889.
 28. Rajfer J; Krall FJ and **SIKKA SC** - Effect of papaverine, phenoxybanzamine and PGE₁ on Ca²⁺ exchange in human cavernosal smooth muscle. *ISIR Proceedings* 1988:46.
 29. Freedman AL, **SIKKA SC** and Rajfer J: Development of rat cavernosal smooth muscle cell culture and its response to papaverine. *Surgical Forum* 1988;39:658-659.
 30. Hellstrom WJ and **SIKKA SC** - Pentoxifylline stimulates the movement characteristics of cryopreserved human sperm. *Surgical Forum* 1989;40:648-650.
 31. Lemmi CAE, Pelikan PC, **SIKKA SC**, et al: Cyclosporine augments renal mitochondrial function in vivo and reduces renal blood flow. *Am. J. Physiology (Renal)* 1989;257:F837-F841.
- 1990**
32. Santen RJ, Langecker P, Santner SJ, **SIKKA SC**, Rajfer J and Swerdloff R: Potency and specificity of CGS-16949 A as an aromatase inhibitor. *Endocrine Research* 1990;16:77-1691.
 33. Pascual JA, Villanueva-Meyer J, **SIKKA SC**, Mena I and Rajfer J: Long term effects of prepubertal testicular vessel ligation on testicular function in the rat. *Journal of Urology* 1990;144:466-468.

34. **SIKKA SC** and Hellstrom WJ: The functional evaluation and motion parameters of pentoxifylline-stimulated cryopreserved human sperm. *Assisted Reproductive Technology/Andrology* 1990;1:309-319.
35. **SIKKA SC** and Hellstrom WJ: Trypsin damage to cavernosal smooth muscle cells in culture as monitored by lipid peroxidation. *J. Cell. Biol.* 1990;111(5):305.
- 1991**
36. **SIKKA SC** and Hellstrom WJ: The application of pentoxifylline stimulation of sperm motility in men undergoing electroejaculation. *Journal of Andrology* 1991;12:165-170.
37. Hellstrom WJ, Wang R and **SIKKA SC**: Platelet activating factor (PAF) stimulates motion parameters of cryopreserved human sperm. *Fertility and Sterility* 1991;56(4):768-770.
38. **SIKKA SC**, Gogu SR and Agrawal KC: Effect of zidovudine (AZT) on reproductive and hematopoietic systems in the male rat. *Biochemical Pharmacology* 1991;42:1293-1297.
39. **SIKKA SC** and Hellstrom WJ: Membrane lipid peroxidation in cavernosal smooth muscle cells from impotent men. *J. Andrology* 1991;12(1):38-56.
- 1992**
40. Bell M, **SIKKA SC**, Rajasekaran M and Hellstrom WJ: Time course study of hydrogen peroxide induced changes in the lipid peroxidation of human sperm membranes. *Assisted Reproductive Technology/Andrology* 1992;3:144-150.
41. **SIKKA SC** and Hellstrom WJ: Pentoxifylline stimulates motion of human sperm collected from men undergoing electroejaculation. *Fertility Digest* 1992 May;3:11-14.
- 1993**
42. Lee B, **SIKKA SC**, Randrup ER, Villemarette P, Baum N, Hower JF and Hellstrom WJ: Standardization of penile blood flow parameters in normal men using intracavernosal PGE₁ and visual sexual stimulation. *J. of Urology* 1993;149(1):49-52.
43. Wang R, Higuera TR, **SIKKA SC**, Minkes RK, Bellan JA, Kadowitz PH, Domer FR and Hellstrom WJ: Penile erections induced by vasoactive intestinal peptide (VIP) and sodium nitroprusside. *Urologic Research* 1993;21(1):75-78.
44. Rajasekaran M, Nair AG, Hellstrom WJ and **SIKKA SC**: Spermicidal activity of an antifungal saponin obtained from the tropical herb *Mollugo Pentaphylla*. *Contraception* 1993;47(4):401-412.
45. **SIKKA SC**, Hellstrom WJ and Naz RK: Pentoxifylline: Role in management of male infertility/mechanisms of action. *Molecular Andrology* 1993;5:220-231.
46. Dahiya R, **SIKKA SC**, Hellstrom WJ, Hayward SW, Narayan P, Tanagho EA and Lue TF: Phenotypic and cytogenetic characterization of a human corpus cavernosum cell line (DS-1). *Biochem. and Molecular Biol. International* 1993;30:559-569.
47. Wang R, **SIKKA SC**, Veeraragavan K, Bell M and Hellstrom WJ: Platelet activating factor (PAF) and pentoxifylline (PTX) as human sperm cryoprotectants. *Fert. and Steril.* 1993;60(4):711-715.

48. Bell M, Wang R, Hellstrom WJ and **SIKKA SC**: Effect of cryopreservation protocol on sperm membrane lipid peroxidation and recovery of motile human sperm. *J. Androl.* 1993;14(6):472-78.

1994

49. Wang R, Domer FR, **SIKKA SC**, Kadowitz PJ and Hellstrom WJ: Nitric oxide mediates penile erection in cats. *J. Urol.* 1994;151(1):234-37.
50. **SIKKA SC**, Wang R, Kukuy E, Walker CF and Hellstrom WJ: The detrimental effects of electric current on normal human sperm. *J. Androl.* 1994;15(2):145-150.
51. Hellstrom WJ, Bell M, Wang R and **SIKKA SC**: Effect of sodium nitroprusside on sperm motility, viability, and lipid peroxidation. *Fertil Steril* 1994;61(6):1117-1122.
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- 217. International Andrology Society meeting, May 2013 - Melbourne Australia, moderated poster presentations.
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- 223. Heidenberg, D.J.; Haney , N.; Honda, M.T.; Song, B.; Swann, K.; DeLay, K.J.; Abdel-Mageed, A.B.; **SIKKA, S.C.**; Hellstrom, W.J.G. Pioglitazone Improves Neuronal Health After Cavernous Nerve Injury Via Insulin Growth Factor-1" Oral Podium Presentation; 2016 Annual Fall Scientific Meeting of the SMSNA, which will take place at The Phoenician, Scottsdale, AZ, November 3-6, 2016.
- 224. ASA 2016 – Posters (3) and Oral presentation (1) and award
- 225. ASA 2017 (2) Posters (2) and Oral presentation (1) and travel award
- 226. AUA 2017 (2)
- 227. ESHERE 2017 (1)
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- 229. **Effect of the cranberry (*Vaccinium macrocarpon*) extract on the relaxation of human corpus cavernosum tissue *in vitro*: Can cranberries contribute to reduce the incidence of erectile dysfunction?**
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- 230. **Safety and efficacy of collagenase *Clostridium histolyticum* in the treatment of acute phase Peyronie's Disease**
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- 231. **Effect of collagenase *Clostridium histolyticum* on penile vascular and morphological parameters in patients with Peyronie's Disease** Linley Diao, James Anaissie, Hoang Minh Tue Nguyen, Faysal A. Yafi, Nora Haney, Kenneth J DeLay, Taylor Peak, **Suresh C. Sikka**, Wayne J.G. Hellstrom Translational Andrology and Urology 6 (5), 894

232. **Racial Variations in Response to Intralesional Collagenase Clostridium Histolyticum in Men with Peyronie’s Disease.** Hoang Minh Tue Nguyen, Kenneth J DeLay, Linley Diao, Nora M Haney, James Anaissie, Faysal A. Yafi, **Suresh C. Sikka**, Wayne J.G. Hellstrom, *Translational Andrology and Urology* 6 (5), 888
233. **The effects of local delivery of Lipoic Acid and 4-Hydroxy-2,5,6-triaminopyrimidine sulfate after bilateral nerve crush injury in the rat animal model** Nora M Haney, Bashir Rezk, Geoffroy Sanga Pema, Prasad K Akula, Amit G Reddy, Thien V Ninh, Sudha Talwar, Suresh Sikka, Wayne JG Hellstrom
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238. **The Effect of Insulin-Like Growth Factor-1 (IGF-1) Delivered Via Polymeric PLGA Microspheres on Erectile Function After Bilateral Cavernous Nerve Injury in the Rat**
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242. **Bardoxolone-methyl suppresses both androgen receptor and its splice-variant ARv7 in prostate cancer cells to enhance the anti-cancer efficacy of enzalutamide.** Namrata Khurana, Partha Chandra, Hogyoungh Kim, Asim B Abdel-Mageed, **Suresh Sikka**, Debasis Mondal. *Cancer Research*, 78: 13 Supplement, 4809, 2018.
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