

THE TUREK CLINIC

CURRICULUM VITAE

NAME: Paul Jacob Turek, M.D.

PRESENT TITLE: Director, The Turek Clinic
Former Professor in Residence
Academy of Medical Educators Endowed Chair
Department of Urology, Obstetrics, Gynecology and Reproductive Sciences
University of California San Francisco

TELEPHONE: Office: (415) 392-3200

EDUCATION: Yale College
New Haven, Connecticut
Degree: Bachelor of Science (Biology) 1982
Summa cum laude

Stanford University School of Medicine
Stanford, California
Degree: M.D. (Research Honors) 1987

POST-GRADUATE TRAINING:

Surgical Intern	Hospital of the University of Pennsylvania Philadelphia, Pennsylvania	1987 - 1988
Surgical Resident	Hospital of the University of Pennsylvania Philadelphia, Pennsylvania	1988 - 1989
Urology Resident and Instructor	Hospital of the University of Pennsylvania Philadelphia, Pennsylvania	1989 - 1993
Fellow and Instructor	Department of Urology Baylor College of Medicine Houston, Texas	1993 - 1994

ACADEMIC APPOINTMENTS

Assistant Clinical Professor	Department of Urology University of California San Francisco	1994 - 1995
Assistant Professor In Residence	Department of Urology University of California San Francisco	1995 - 2000
Clinical Assistant Professor	Department of Urology Stanford University	1996 - 1998
Associate Professor In Residence	Department of Urology Department of Ob-Gyn and Reproductive Sciences	2000 - 2006

	University of California, San Francisco	
Endowed Chair	Academy of Medical Educators	2006 - 2008
Professor in Residence	Department of Urology Department of Ob-Gyn and Reproductive Sciences University of California, San Francisco	2006 - 2008

HOSPITAL STAFF APPOINTMENTS:

Moffitt Hospital-University of California	1994-2010
UCSF/Mt. Zion Medical Center	1994-2010
San Francisco General Hospital	1994-2008
Veterans Administration Medical Center	1994-2008
St. Mary's Hospital	2006-
California Pacific Medical Center	2008-
St. Francis Hospital	2008-
U.S. Naval Medical Center, Oakland	Consulting Staff 1994-6
Stanford University Hospital	Visiting Staff Surgeon

BOARD CERTIFICATION AND LICENSURE

American Board of Urology, Diplomate	1996-
American College of Surgeons, Fellow	1997-
California State Dept. Health, High Complexity Laboratory Director	1996-2002
California State Dept. Health, Tissue Bank Director	1996-2002
California State Dept. Health, Fluoroscopy X-Ray Supervisor and Operator	1995-
State of California, Medical License	1993-
U.S. Drug Enforcement Administration License	1989-
State of Pennsylvania, Medical License	1987-2007

ADMINISTRATIVE RESPONSIBILITIES

Male Fertility Clinic, UCSF	Director	1994-2008
Male Reproductive Laboratory-UCSF	Director	1994-2003
Sperm Cryobank-UCSF	Director	1994-2003
Section of Urology, Veterans Administration Medical Center, San Francisco, CA	Assistant Chief Chief	1995-2006 2000-2001
UCSF Department of Urology, Web Site	Director	1997-2000
PROGENI (Program in the Genetics of Infertility)	Program Leader	1998-2008
UCSF-Mt. Zion Urology Faculty Practice	Practice Manager	1998-2002
Northern California Urology Resident Seminar	Program Chair	1999-2000
Faculty Search Committee, Depart. Ob-Gyn	Member	1999-2008
Men's Reprod. Health Clinical Research Center, The Turek Clinic	Director	2006-2008 2008-
Medical Advisory Board, Clinic by the Bay	Chair	2010-

ACADEMIC HONORS AND AWARDS:

Yale Club of Hartford Achievement Grant	1980
Phi Beta Kappa, Yale College	1981
Summa cum laude, Yale College	1982
Henry J. Belknap Prize in Biology (Senior thesis)	1982
Research Honors, Stanford graduation	1987

First Prize, Resident Essay Competition, Philadelphia Urological Society	1991
First Prize, Resident Essay Competition, Philadelphia Urological Society	1992
Henry Weyrauch Award, 43rd Western Urologic Forum	1994
Best Poster, Male Infertility Session, American Urological Association	1995
James L. Goebel Grand Prize, Posters, West. Section, American Urological Assoc.	1995
Best Poster, Etiology of Male Infertility, American Urological Association	1996
Second Prize, Posters, Western Section, American Urological Association	1996
UCSF Young Faculty Development Award	1996
Best Poster Prize, Etiology of Male Infertility, American Urological Association	1997
Second Prize, Clinical Research, Northern California Urological Society	1997
Best of Session, Poster, Western Section, American Urological Association	1997
Citation of Distinguished Contribution, RESOLVE	1997
AUA/EUA Academic Fellowship European Exchange	1998
Society of Male Reproduction and Urology Travelling Award	1998
Outstanding Leadership, Clinical Preceptor, UCSF Class of 2000, Teaching Award	1998
First Prize, Posters, Western Section, American Urological Association	1998
Nominee, Kaiser Teaching Award, UCSF School of Medicine Class of 2000	2000
Life member, National Registry of Who's Who, Year 2000	2000
Young Surgeon Award, American College of Surgeons, N. Cal. Chapter	2000
Grand Prize, Posters, American Society for Reproductive Medicine, Annual Meeting	2001
Nominee, Kaiser Teaching Award, UCSF School of Medicine Class of 2003	2003
Election to Haile T. Debas Academy of Medical Educators	2003
Nominee, UCSF School of Medicine Class of 2006, Outstanding lecture and lecture series	2004
Faculty of Medicine 1000 (international faculty literature review organization)	2004
Second Prize Overall, & First Prize, Session I, Posters, West. Section, AUA	2004
Yamanouchi Prize Paper for Infertility, AUA Annual Meeting	2005
Academy of Medical Educators Endowed Chair in Medical Education	2006
Nominee, UCSF Class of 2008, Outstanding Lecture	2006
"Best Doctors in America" national listing	2006-13
NIH-NICHD Advisory Panel: Fertility Preservation	2007
3 rd Place, Clinical Research Prize, AUA Annual Meeting	2007
Prize Paper, Society of Study of Male Reproduction, ASRM meeting	2007
3 rd Prize, Joseph McCarthy Essay Contest, Western Section, AUA	2007
Nominee, UCSF School of Medicine Class of 2010, Outstanding lecture and lecture series	2008
Nominee, UCSF Kaiser Teaching Award, Class of 2008	2008
Overseas Fellow, Royal Society of Medicine, London, England	2008-
NICHD Male Reproductive Health Strategic Planning Committee	2009
NICHD Cooperative Reproductive Medicine Network, Advisory Board	2010-12
American Board of Oriental Reproductive Medicine, Advisory Board	2010
NICHD Visioning Project, Reproductive Health	2011
US News and World Report, America's Top Doctors	2011
Am Soc Reprod Medicine (ASRM) Star Award (10+ years of research presentations)	2011
Am Soc Reprod Medicine (ASRM) Star Award	2013
HealthTap.com Top Urologist in California (Second Place)	2013
NICHD Cooperative Reproductive Medicine Network, Advisory Board	2013-16
Election to Board of Directors, San Francisco Medical Society	2014-16

PROFESSIONAL ACTIVITY

SOCIETY MEMBERSHIP

American College of Surgeons	
American Urological Association	
Societe Internationale d'Urologie	
Chair, Infertility Postgraduate course	2004-2007
Chair, Sexual Medicine Postgraduate Course	2012-
Member, Abstract Review Committee	2009-
Chair, Sexual Medicine Postgraduate Course	2012-

American Society for Reproductive Medicine	
American Association of Clinical Urologists	
Society for the Study of Male Reproduction	
American Society of Andrology	
Society for Male Reproduction and Urology	
Pacific Coast Fertility Society	
Program Committee	2008-
RESOLVE	
Northern California Urologic Society	
Vice President	2001-3
President	2008-11
Western Section, American Urological Association	1995-
Board of Directors	2010-12
Northern California Chapter, American College of Surgeons	
Member, Local Committee on Applicants	2001-2005
Honorary Member, Al-Alzhar University Center for Research and Management of Impotence and Infertility, Cairo, Egypt	
Scientific Advisor, Egyptian Afro-Asian Assisted Fertilization and Conception Assoc	
Association for Voluntary Surgical Contraception (AVSC International).	
Stanford Alumni Association	
Yale Alumni Association	
UCSF Comprehensive Cancer Center	2004-2008
Graduate Group, Global Health Services (Director, Haile Debas MD)	2006-2008
California Medical Society	2007-
San Francisco Medical Society	2007-
Board of Directors	2014-2016
Royal Society of Medicine, London, UK	2008-
American Board of Oriental Reproductive Medicine	2010-

EDITORIAL BOARD MEMBERSHIP

Current Opinions in Urology (Andrology)	1994-1998
International Journal of Men's Health	2001-
International Brazilian Journal of Urology	2006-
Archives of Andrology	2006-2007
Systems Biology in Reproductive Medicine (SBiRM)	2007-
Asian Journal of Andrology	2011-
Andrology	2012-

AD HOC EDITORIAL ACTIVITY

Journal of Urology	1995-
Urology	1995-
Medical Practice and Principles	1996-
Journal of Clinical Endocrinology and Metabolism	1996-
Journal of Andrology	1996-2013fd
The Western Journal of Medicine	1997-
Fertility and Sterility	1998-
European Urology	1998-
American Journal of Medicine, Ethics and Law	1999-
Human Reproduction	1999-
Biology of Reproduction	1999-
Journal of Clinical Investigation	2000-
Molecular Human Reproduction	2000-
International Journal of Impotence Research	2003-
British Journal of Urology	2003-
Asian Journal of Urology	2004-
Cytojournal	2005-

Journal of Endourology	2005-
Cytopathology	2006-
Stem Cells	2006-
Archives of Andrology	2006-
Cancer	2006-
Annals of Surgical Oncology	2007-
Reproductive Medicine	2007-
Urologia Internationalis	2007-
Developmental Biology	2007-
BioMed Central-Urology	2007-
British Medical Journal	2008-
Indian Journal of Urology	2008-
New England Journal of Medicine	2008-
Reproductive Biology and Medicine (RBM) Online	2009-
Artificial Intelligence in Medicine	2009-
Epigenomics	2009-
International Journal of Andrology	2009-
PLoS One	2010-
Expert Review of Clinical Immunology	2011-
Bone Marrow Transplantation	2011-

SERVICE TO NATIONAL ORGANIZATIONS and COMMUNITY SERVICE

NIH-NICHD Advisory Panel: Fertility Preservation	2007
NIH-NICHD Advisory Panel: Male Reproductive Health	2009
NIH-NICHD Advisory Panel: Cooperative Reproductive Network	2010-16
NIH-NICHD Reproductive Health Visioning Panel	2011
NIH-NICHD FASST Study Section Reviewer	2012-
Medical Board of California, Expert Reviewer	2009-
American Urological Association	1993-
Best Practice Panel, Reviewer	2000
Communications Office Expert	2001
Chair, National Medical Student Curriculum Task Force	2007-2011
Chair, National Medical Student Curriculum Committee	2011-2015
Urology Care Foundation, Outreach Committee	2013-
Western Section, American Urological Association	
Delegate to Council from Northern California	2011-
American Society for Reproductive Medicine	
Abstract Committee	1996-98, 2004
Urology Representative, National Advisory Council ASRM	1997-2000
Co-Director, ASRM-NRAC Regional Post-Graduate Course	1998-1999
Patient Education Committee	1999-2001
Resident Education Committee	2006-2010
Society for the Study of Male Reproduction	
Member-at-Large	1997-1998
Chairman, Audit Committee,	1997, 2004
Nominating Committee	1998-1999
Chair, Postgraduate course	2001
American College of Surgeons	
Co-Chairman, Urology Section, Northern California Chapter	1998-2001
Committee on Applicants, N. Cal Chapter	2001-2005
American Society of Andrology	
Membership Committee	1999, 2003
Member, Executive Council	2002-2005
Member, Program Committee, 2004, 2005, 2006, 2007 Annual Meetings	2004-2008
Member, XVII Testis Workshop Organizing Committee	2003-2006
Member, Awards Committee	2003-2005
Chair, Program Committee, 2008 Annual Meeting	2006-2008

Vice President	2009-2010
President	2010-2011
Past President	2011-2012
Society for Male Reproduction and Urology	
Board of Directors Nominee	1996
Nominating Committee	1997
Chairman, Membership Committee	1999-2001
Speaker, Postgraduate Course	2001
Chairman, Postgraduate Course	2003
Program Committee	2005-2008
Board of Directors	2009-2012
Vice President	2012-2013
President	2013-2014
Chair, Post Graduate Course	2013-2014
RESOLVE	
Medical Advisory Board, N. Cal. Chapter	1995-2000
Association for Voluntary Surgical Contraception (AVSC International).	1996-1998
Advisory Board Member	
World Health Organization Fellowship Supervisor	1996-1998
Yale Alumni Association	1993-
Admissions Committee Interviewer	2009-
Yale Alumni Fund, Class agent	2010-
Mentor Corporation	
National Medical Director, FDA-Testis Prosthesis Trial	1995-2002
Sperm Bank of California	
Medical Advisory Board	1999-
Fertile Hope	
Medical Advisory Board	2007-
Men's Health Network	
Medical Advisory Board	2009-
The Candy Store, Associate Member	2007-
Hillsborough Schools Foundation	
Co-Chair, Concours d'Elegance Sponsorship Committee	2005-2009
Volunteers in Medicine San Francisco (Clinic by the Bay)	
Founders Committee	2008-
Chair, Medical Advisory Board	2009-
Mandelmed Cell Sciences	
Chief Medical Officer	2009-
American Board of Oriental Reproductive Medicine	
Advisory Board	2010-
Healthloop.com	
Advisory Board	2010-
BioQuiddity, Inc	
Advisory Board	2010-
Doximity.com	
Advisory Board	2011-
Fertility Planit	
Advisory Board	2011-
Founder, "Banking on the Future" (national sperm banking initiative)	2013-
BabyQuest Foundation. Advisory Board Member	2014-
American Fertility Association	2014-

UNIVERSITY AND PUBLIC SERVICE

Veterans Administration Medical Center, San Francisco	
Surgical Staff Committee	1994-2008
Infection Control Committee	1994-2003
Antibiotic Usage Committee	1996-2003
Co-Chairman, Committee of ICU and TCU utilization	1996-1999

VISN Inpatient Redesign Team	1996-1999
Surgical Informed Consent Committee	1998-2002
Quality Assurance Committee, Surgical Service	1999-2002
University of California, San Francisco	
Medical School Admissions Committee	1995-1999
NICHD Program Project. Advisory Board, "Individual, Family and Societal Outcomes of Infertility" UCSF Dpt. of Family and Community Medicine (P.I. M. Croughan Ph.D)	1997-2007
Program Leader, PROGENI (Program in the Genetics of Infertility)	1998-2008
Chair, Urology Resident Selection Committee	1999-2001
Director, Department of Urology Annual Postgraduate Course	1997,2006
Mentor, Volunteer Services, UCSF	1996-2008
Proctor, Urology in-Service Examination	1994-1996
UCSF Strategic Vision Task Force on Clinical Education (Chair, Lee Goldman)	2004-2007
Director, Medical Student Clinical Clerkships in Urology (MSIII and IV)	2001-
UCSF Academy of Medical Educators	2003-2008
Graduate Medical Education Committee	2005-2008
Urology Department Liason	2005-2008
UCSF Acad. Senate Committee on Courses of Instruction (COCOI)	2006-2008

VISITING PROFESSORSHIPS

Treatment of Male Factor Infertility: From Insemination to ICSI. Guest of the VI Congress F.L.A.S.E.F., Panama City, Panama, March 22-26, 1999.

ICSI and Male Genetic Infertility: Hope and Hard Facts. Department of Urology, New York University School of Medicine. New York, NY, August 18-20, 1999.

Fertility in Spinal Cord Injury Patients. IX Congress of IMSOP. University of Florence, Department of Urology, Florence, Italy. October 26-30, 1999.

Azoospermia: From Sterility to Fertility. Tripler Army Hospital, Department of Urology, Honolulu, Hawaii. May 22-25 2000.

Genetic Infertility: The Y Chromosome and Beyond. Department of Urology, University of Illinois, Chicago. Chicago, Ill. March 13-15, 2001.

Male Genetic Infertility: Look and You Will Find. Urology Service, Brooke Army Hospital, San Antonio, Texas. October 14-15, 2003.

Male Infertility, Vasoepididymostomy. University of San Paolo and the III Congresso de Urologica da USP. Center de Convencoes Reboucas, Sao Paolo, Brazil, March 18-20, 2004.

Male Infertility: The Ultimate Medical Disease of the Species. San Francisco State University, Department of Biology. November 29, 2007.

Male Infertility: Window into Men's Health. Division of Reproductive Endocrinology. Harvard Medical School, Boston, MA. February 25-27th 2008.

Male Infertility: Window into Men's Health. Department of Biological Sciences, Tsinghua University, Beijing, China, June 8th, 2010

Male Infertility and the Later Risk of Cancer and Azoospermia: Current and Future Treatments. 2nd Gulf Andrology Conference. Riyadh Military Hospital, Riyadh, Saudi Arabia. March 3-5, 2012.

INVITED LECTURES, SCIENTIFIC AND PROFESSIONAL MEETINGS

Invited Speaker. Renal Physiology for Surgeons. Grand Rounds Lecture, Department of Surgery, Pennsylvania Hospital, Philadelphia, PA. July 1992.

Invited Speaker. Immunology in Urology. Research Conference, Scott Department of Urology, Baylor University, Houston, TX, November 1991.

Invited Speaker. The Prostate. Grand Rounds Lecture, The Department of Medicine, Hospital of the University of Pennsylvania, Philadelphia, PA. March and May 1993.

Invited Speaker. Immunologic Infertility. Grand Rounds Lecture. The Department of Urology, Baylor College of Medicine, Houston, TX, January 1994.

Invited Speaker. New Developments in the Diagnosis and Treatment of Male Infertility. Grand Rounds, The Department of Urology, UCSF, November 5, 1994.

Invited Speaker. How Does Cancer Treatment Influence Sperm Quality? UCSF Pediatric Oncology Seminar, March 20 1995.

Invited Speaker. Evaluation of the Infertile Male. Northern California RESOLVE Annual Symposium. Mills College, Oakland, CA. June 6, 1995.

Invited Speaker. New Concepts in Ejaculatory Duct Obstruction. Grand Rounds. UCSF, Department of Urology. September 9, 1995.

Invited Speaker. Infertility: A Male Perspective. Northern California RESOLVE conference. September 13, 1995.

Invited Speaker. Environmental Factors and Male Infertility. Northern California RESOLVE Focus Seminar. Alta Bates Hospital, Berkeley, CA. October 16, 1995.

Invited Speaker. A Dynamic Duo: The Andrology Laboratory and the Clinical Management of Infertility. Grand Rounds, UCSF Department of Laboratory Medicine, December 19, 1995.

Invited Speaker. The Evaluation of the Infertile Male. Ambulatory Medicine Rounds, UCSF, February 5, 1996.

Invited Speaker. Surgery for Male Infertility. Ambulatory Surgical Center Staff Rounds, April 4, 1996.

Invited Keynote Speaker. New Developments in the Treatment of Male Infertility. Turkish Urologic Society, May 20, 1996, Istanbul, Turkey.

Invited Speaker. Evaluating the Infertile Male and Ultimate IVF: ICSI, Sperm Extraction. RESOLVE of Northern California Annual Symposium (Creative Family Building), Mills College, Oakland CA, June 1 1996.

Invited Keynote Speaker. Male Infertility: A Prescription for Survival. Chairman: Frank Hinman Jr. Society of University Urologists, American College of Surgeons Annual Meeting, San Francisco, CA Oct 10, 1996.

Invited Keynote Speaker. The Use of Systematic Fine Needle Aspiration "Mapping" of the Testis to Detect Sperm in Azoospermic Men, and Varicocele Repair: Techniques, Cost and Outcome. Congress of Public Hospitals, Istanbul, Turkey, Dec 3-6, 1996.

Invited Speaker. How to Pick a Sperm for a Test-Tube Baby. Grand Rounds Lecture, Department of Urology, UCSF. December 11, 1996.

Invited Keynote Speaker. Back to the Future: Innovations in the Treatment of Male Infertility. Plenary Session, AUA annual meeting. Course directors A. Belker and R. Meacham, New Orleans, LA. April 14, 1997.

Invited Speaker. Preserving and Restoring Fertility in Young Men. Pediatric Oncology Seminar Series. Department of Oncology, UCSF. May 9 1997.

Invited Speaker. Infertility and Kallman's Syndrome. Department of Medicine, Division of Endocrinology, UCSF, Patient Care Conference. May 13, 1997.

Invited Speaker. Male Germ Cell Transplantation. Department of OB-Gyn Research Seminar, UCSF, May 23, 1997.

Invited Speaker. How to Treat Obstruction in the Male and Male Factor: ICSI with the Embryologists. RESOLVE Annual Symposium, Northern California Chapter, Oakland, CA, June 7 1997

Invited Speaker. Male Factor Infertility-What's New. RESOLVE Seminar, Alta Bates Hospital, Berkeley, CA, August 19, 1997.

Invited Keynote Speaker. What Everyone Should Know About Male Infertility. Society of Urologic Nurses Symposium, Veterans Affairs Medical Center, San Francisco, CA November 1, 1997.

Invited Speaker. How to Get Sperm From A Rock. Grand Rounds Guest Lecture, Department of Urology, UCSF. November 12, 1997.

Invited Keynote Speaker. Preserving and Restoring Fertility in Young Men. Grand Rounds Lecture. Social Security Hospital, Panama City, Republic of Panama, January 14, 1998.

Invited Keynote Speaker. Sperm From a Rock: Fine Needle Aspiration Mapping in Male Infertility. European Association of Urology Meeting, Barcelona, Spain March 21, 1998

Invited Keynote Speaker. Rat Seminal Vesicle Urodynamics: The Seminal Vesicle as Bladder of the Reproductive Tract. EAU Exchange Program, Department of Urology, University of Berne, Berne Switzerland, March 28, 1998.

Invited Speaker. Sperm From a Rock: Fine Needle Aspiration Mapping in Male Infertility. Center for Reproductive Medicine, Free University of Brussels, Brussels, Belgium, April 2, 1998.

Invited Keynote Speaker. The New Genetics of Male Infertility. EAU Exchange Program, Department of Urology, University of Warsaw, Warsaw, Poland, April 5, 1998.

Invited Speaker. Cytokines and Male Autoimmune Infertility. Grand Rounds, Department of Endocrinology, UCSF, San Francisco, April 22, 1998.

Invited Speaker. Male Infertility Treatment: The Edge of Technology. Brown Bag Lunch Series. Veterans Affairs Medical Center, San Francisco, CA. May 7, 1998.

Invited Speaker. Male Workup and Initial Treatment and Reasons to Consider ICSI. Reaching for Resolution, RESOLVE Symposium, Mills College, Oakland, CA. June 6, 1998.

Invited Speaker. General Outpatient Urology. Lecture, Primary Care Residency Training Program, UCSF, San Francisco, CA. May 5, 1998.

Invited Keynote Speaker.. New Techniques that Turn "Sterility" Into Fatherhood, and The New Genetics of Male Infertility. Invited Speaker, Arizona Urological Society Annual Meeting, Prescott, AZ July 17-19, 1998.

Invited Speaker. Simple and High Technology Treatments for Male Infertility. Grand Rounds Lecture, Department of Ob-Gyn, University Hospital, Fresno, CA. July 30, 1998.

Invited Speaker. Everything That You Need to Know About Male Infertility. Brown Bag Lecture Series. UCSF. August 19, 1998.

Invited Speaker. The Brand New Genetics of Male Infertility. Grand Rounds Lecture, Department of Urology, UCSF, San Francisco, CA September 9, 1998.

Invited Keynote Speaker SMRU Travelling Award Lecture: Sperm Procurement Techniques. San Francisco, CA October 4, 1998.

Invited Speaker. ASRM Roundtable Lecture: Helping the Couple with Non-obstructive Azoospermia to Conceive. San Francisco, CA. October 7 1998.

Invited Keynote Speaker. Biking, Baking and Boxers: A Practical Guide to Male Infertility. Kaiser Permanente Medical Group-New Concepts in Reproductive Gynecology and Fertility. October 10, 1998.

Invited Speaker, Male Fertility and Radiation Therapy. Chief Resident Seminar Series, UCSF Department of Radiation Therapy, December 6, 1998.

Invited Keynote Speaker. UCSF Dean's Seminar Series. Spermatogenesis and Sporulation: Fertility and Infertility in Man and Yeast. Lecture with Renee Reijo PhD and Ira Hirschowitz PhD, February 22, 1999.

Invited Speaker, VA Medical Center Annual Nurses Symposium, Male Fertility: The Cutting Edge. San Francisco, CA. March 18, 1999.

Keynote Speaker, UCSF-Mt Zion Brown Bag Lecture Series. Viagra: An Update. Herbst Hall, Mt. Zion Hospital, San Francisco, April 2, 1999.

Invited Speaker, Stanford University Health Library Symposium. Demystifying Infertility. Stanford, CA. May 13, 1999.

Invited Speaker. Male Infertility Workup and Genetic Causes of Male Infertility. Creative Family Building, Annual RESOLVE Symposium, Mills College, Oakland, CA. June 5, 1999.

Invited Speaker. Male Infertility Workup and Genetic Causes of Male Infertility. Annual RESOLVE Symposium, Mills College, Oakland, CA. June 3, 2000.

Invited Speaker. Fertility from Sterility: Aspiration Techniques in Azoospermic Men. Grand Rounds Lecture, Departments of Ob-Gyn and Urology, University Hospital, Fresno, CA. July 24, 2000.

Invited Speaker. Optimizing the Care of the Infertile Male. San Diego Urologic Society and The Society of Reproductive Endocrinology, San Diego, CA. December 13, 2000.

Invited Speaker. Male Genetic Infertility. Grand Rounds, Department of Ob-Gyn and Reproductive Sciences, UCSF (Co-presented with Renee Reijo Pera) Ph.D) April 17, 2001.

Invited Speaker. Male Infertility in the Era of ICSI. N. Cal. Resolve Annual Symposium, Oakland, CA June 8, 2001.

Invited Speaker. Bench to Beside: The Story of Male Genetic Infertility. Dept. of Urology Grand Rounds, UCSF, San Francisco, October 10, 2001.

Invited Speaker. The ABC's of Molecular Biology: DNA Microarrays. Society for Male Reproduction and Urology, Annual Meeting. Orlando, FL. October 24, 2001.

Invited Speaker. What's New In Male Genetic Infertility Testing. Sequoia Hospital, Medical Staff Grand Rounds. San Mateo CA, July 23, 2002.

Invited Speaker. What's New In Male Infertility Testing. 27th Congresso de la Confederacion Americana de Urologia, Panama City, Panama, September 22-26th, 2002.

Invited Speaker. Chemotherapy and Male Infertility. ASRM Mini-Symposium, ASRM Annual meeting, Seattle, WA, Oct 12, 2002.

Invited Speaker. Male Genetic Infertility: Look and You Will Find. Czech Urologic Society, Prague, Czech Republic, May 27th, 2003.

Invited Speaker. Finding Sperm in Non-obstructive Azoospermia. Slovakia Urologic Society, Bratislava, Slovakia, May 28th, 2003.

Invited Speaker. New Techniques of Vasovasostomy and Epididymovasostomy, Concepts in Reproductive Engineering and Finding Sperm in Non-obstructive Azoospermia. 5th Annual Meeting, Turkish Andrological Society, Istanbul, Turkey, June 4-7, 2003

Invited Speaker. Fine Needle Aspiration Mapping for Azoospermic Men. SMRU Mini-Symposium, ASRM Annual Meeting, Philadelphia, PA, Oct 19, 2004.

Invited Speaker. From Embryonic Stem Cells To Sperm. UCSF Department of Urology Grand Rounds (with Co-Investigator Renee Reijo Pera) San Francisco, CA, April 8, 2005

Invited Speaker. Reproductive Challenges after Childhood Cancer: Fertility Preservation Options in Males. Pediatric Associated Societies Annual Meeting, Washington D.C., May 15-17th, 2005

Invited Speaker. Society of the Study of Male Reproduction, The Best Way to Treat Ejaculatory Duct Obstruction. American Urological Association, Atlanta, GA May 24th 2006

Invited Speaker. Male Infertility Workup. Annual RESOLVE Symposium, Stanford University, Stanford, CA October 28, 2006

Invited Speaker. Fertility Preservation in Men: Current Options. NIH Fertility Preservation Advisory Board. Bethesda, MD. January 23, 2007

Invited Speaker. A Disease of Human Evolution: Faulty DNA Repair and Recombination Causing Male Infertility. Urology Grand Rounds, Stanford University, Stanford CA, March 8, 2007.

Invited Speaker. Medical Therapy for Male Infertility: Does it Work? UCSF Endocrinology Grand Rounds, May 9, 2007.

Invited Speaker. Workshop: Male Infertility Treatment & Maternal Age. RESOLVE Northern California. September 28, 2007, San Francisco CA.

Invited Speaker. Workshop: The Future of Testing for Male Genetic Infertility. Chair: Robert Oates MD. American Society of Reproductive Medicine, Washington, DC, October 17, 2007

Invited Speaker. Cancer Survivorship: Intimacy and Sexuality Issues for Men. Cancer Survivorship Symposium. Northern California Center Center, San Francisco, CA December 1, 2007

Invited Speaker. A Vision of Men's Health. Division of Reproductive Endocrinology, Dept of Obstetrics, Gynecology and Reproductive Sciences, UCSF, San Francisco, CA April 3, 2008.

Invited Speaker. Varicocele: Is it related to Infertility? Journal Club lecture, Division of Reproductive Endocrinology, Dept of Obstetrics, Gynecology and Reproductive Sciences, Stanford University School of Medicine, Stanford, CA June 18, 2008.

Invited Speaker. Are Varicoceles Related at All to Male Infertility? Grand Rounds Lecture, Department of Obstetrics, Gynecology, California Pacific Medical Center, San Francisco, CA, October 7, 2008.

Invited Lecturer, Debate: ART vs Classical Therapy for Male Infertility (vs. Eberhard Nieschlag). International Congress of Andrology, Barcelona, Spain, March 7-10, 2009

Invited Lecturer, IVF vs Vasectomy Reversal with Advanced Maternal Age: An Evidence Based Analysis. Pacific Coast Reproductive Society. Palm Springs, CA. April 24, 2009

Invited Lecturer, Does Abnormal Male Meiosis Explain the Higher Risk of Chromosome Anomalies with ICSI? Pacific Coast Reproductive Society. Palm Springs, CA. April 25, 2009

Invited Lecturer. Novel Medical Treatments for Male Infertility? Stanford University School of Medicine, Department of Medicine Grand Rounds, Stanford, CA November 11, 2009

Invited Lecturer. Marriage, Dating and Fertility with CF. Stanford Cystic Fibrosis Recovery Series. Palo Alto, CA February 9, 2010.

Invited Lecturer. Testosterone: The Elixir of Life. Grand Rounds. One Medical Group. San Francisco, CA. March 3, 2010.

Invited Lecturer. The Basics of Genetic Male Infertility. Departments of Ob-Gyn and Physiology, University of Pittsburgh, Pittsburgh, PA, March 6, 2010.

Invited Lecturer. Male Fertility and Cystic Fibrosis: The Good News. Stanford University Cystic Fibrosis Education Day, Stanford, CA, March 13, 2010.

Invited Lecturer. Sperm FNA Mapping for Azoospermia and Male Infertility: Window into Mens Health. Update on Advances in Male Fertility. Shenzhen Institute for Reproductive Medicine, Shenzhen, China, June 11-12th, 2010.

Invited Lecturer. Summit on Men's Reproductive Health. Communicating Science to Consumers. Centers For Disease Control (CDC). Atlanta, Georgia. September 12-13th, 2010

Invited Lecturer. Canadian Fertility and Andrology Society. The Role of the Male Factor Evaluation in the Era of ICSI. Vancouver, BC, Canada. September 29th- October 2nd, 2010

Invited Lecturer. 7th Workshop on CIS and Testis Cancer. The Risk of Testis and Prostate Cancer after Male Infertility. Copenhagen, Denmark, October 13-15, 2010

Invited Lecturer. American Society of Reproductive Medicine. SMRU Mini-Symposium, Treatment of Male Infertility in the Setting of Advanced Maternal Age. Denver, CO, October 19-23rd, 2010.

Invited Lecturer. NICHD Visioning Project. Reproductive Health. Co-Leader, Session on Reproductive Health as a Window into Overall Health. Washington, D.C. January 25-26th, 2011.

Invited Lecturer. Department of OB-Gyn, Marin General Hospital. Male Infertility and the Development of Later Disease. Marin, CA, February 9, 2011.

Invited Lecturer. Cambridge HealthTech Institute. Tri-Molecular Conference. Testicular Germ Line Stem Cells: An In Vitro Human Reproductive Toxicology Assay. San Francisco, CA, February 23-25, 2011.

Invited Lecturer. What Male Infertility Can Tell Us About a Man's Overall Health. Annual Meeting, Pacific Coast Reproductive Society. Palm Springs, CA. April 16th, 2011

Invited Lecturer. Critique of the WHO 2010 Semen Analysis Reference Ranges: What Does it Mean For Your Practice? Society for the Study of Male Reproduction, Annual Meeting. Washington, DC, May 17, 2011

Invited Lecturer. Guy's Guide to Maintaining Sexual Health. Google Health Lecture Series. Google, Mountain View, CA, June 15, 2011

Invited Keynote Lecturer, Imaging of the Male Reproductive Tract: Ultrasound, MRI and Beyond. International Congress of Andrology, Berlin, Germany, November 28th to December 1, 2012

Invited Keynote Lecturer, Male Infertility: From Sterility to Fertility, and Cancer and Infertility. Fertility Planit Show. Los Angeles, CA, Jan 12-13, 2013.

Invited Lecturer. The Implications of the New WHO Guidelines for Semen Analysis; and The Effect of BMI/Boday Fat and Age on Semen Parameters. Am. Assoc. BioAnalysts and College of Reproductive Biol. Annual Meeting, Las Vegas, NV, May 16-18, 2013.

Invited Keynote Lecturer, Varicocele: When? How? Why? and Artificial Sperm from Stem Cells. British Association of Urological Surgeons (BAUS), June 16-20, 2013, Manchester, England.

Invited Lecturer, All About Men's Health From PSA to BPH to ED. One Medical Group Grand Rounds. San Francisco, CA, July 31, 2013.

Invited Lecturer, Fertility Preservation in Men. Parenthood After Cancer Treatment (PACT), Fertile Action.com, Century City, CA, August 10, 2013.

Invited Lecturer, A Planetary View of Men's Health. Tower Urology Grand Rounds. Four Seasons Hotel, Beverly Hills CA, August 12, 2013.

Invited Lecturer, ASRM Interactive Workshop: Medical Therapy Before TESE in Nonobstructive Azoospermia (Peter Schlegel MD, Craig Neiderberger, MD). Boston, MA, Oct 14, 2013.

Invited Lecturer, Georgeanna and Howard Jones Symposium at ASRM (Chair, Marco Conti PhD). Artificial Sperm. Boston, MA, Oct 15, 2013.

Invited Lecturer, ASRM Round Table: Social Media in Reproductive Medicine. Boston, MA, Oct 15, 2013.

Invited Lecturer, USC Department of Urology Grand Rounds. Is it Worth Reversing Older Vasectomies? Los Angeles, CA, Oct 30, 2013.

Invited Lecturer, All About Men's Health From PSA to BPH to ED. One Medical Group Grand Rounds. Burlingame, CA, November 20, 2013.

Invited Keynote Lecturer, Keeping Sex Passionate and What Every Woman Needs to Know About Her Man's Fertility. Fertility Planit.com Show. Los Angeles, CA, April 5-6th, 2014.

Invited Keynote Lecturer, Finding Sperm in Azoospermia: From Medieval to Modern. New England Fertility Society, 12th Annual Meeting, Newport, RI, April 25th-26th, 2014.

Invited Plenary Lecturer, Critical Discussion: Advanced Paternal Age-What Are the Risks? American Urological Association, Annual Meeting. Orlando, FL, May 19th, 2014.

Invited Lecturer, Optimizing Sperm Retrieval. Society of the Study of Male Reproduction and Urology, Annual Meeting. Orlando, FL, May 21st 2014.

Invited Lecturer. Optimizing Sperm Retrieval. The Puah Institute, Annual Meeting. Los Angeles, CA, June, 8th, 2014.

Invited Keynote Speaker. Reproductive Genetics and the Aging Male. American Society of Andrology, Endowed AUA Lecture. Salt Lake City, Utah. April 19th, 2015

Invited Keynote Speaker. 40 Years of Clinical Andrology. American Society of Andrology, Salt Lake City, Utah. April 19th, 2015

Invited Keynote Speaker. First Integrative Fertility Symposium. A Planetary View of Men's Reproductive Health. Vancouver, BC, Canada. May 2, 2015.

Invited Lecturer, First Integrative Fertility Symposium. Discussion Panel. Update on Male Factory Infertility. Vancouver, BC, Canada. May 2, 2015.

Invited Keynote Speaker. Treating the Young Hypogonadal Male. American Association of Clinical Endocrinology, Nashville, TN. May 13th, 2015

Invited Keynote Speaker. Highlights of the National Medical Student Urology Curriculum. American Urological Association, New Orleans, LA. May 18th, 2015

INVITED LECTURES/INTERVIEWS, NON-SCIENTIFIC AND MEDIA

KQED radio Forum, Topic: Infertility. Broadcast live in San Francisco. February 21, 1995.

ABC World News Tonight, American Agenda. Infertility. March 1995.

CBS Television, Day & Date, Are Sperm Counts Dropping? Broadcast January 10, 1996.

Nightly News, Channel 5, CBS. Are Sperm Counts Dropping? Broadcast February 28, 1996.

ABC Good Morning America; The Hypo-osmotic swelling test. Joan London interview. June 26, 1997

ABC News.Com. "Chat Room" on the Internet; The Hypo-osmotic Swelling Test. June 26, 1997

CNN News, National broadcast. The Hypo-osmotic Swelling Test for Viable Sperm. June 27-29, 1997

The Sunday London Times Newspaper, Interview: Hypo-osmotic Swelling Test, July 6, 1997

BBC, London England, Interview for broadcast. Sperm Hypo-osmotic Swelling Test, July 10, 1997

Interview, The Journal Inquirer, Manchester, CT on The Sperm Swelling Test, July 18 1997

Interview, The Sacramento Bee Newspaper, The Use of Sperm from the Dead, July 19 1997

Interview, The Hartford Courant Newspaper, Hartford, CT on The Sperm Swelling Test, July 20 1997

Interview, KCBS News, New York, The Sperm Swelling Test, August 20, 1997

CBS "This Morning" News Show. The Diagnosis and Treatment of Male Infertility, December 1, 1997

Commentary on Declining Sperm Counts. ABC News, Channel 7, San Francisco. August 24, 1998.

National Public Radio (KALW in SF). Prevention, Diagnosis and Treatment of Male Infertility. February 18th and 25th, 1999. San Francisco

ABC 20/20 News. Interview on Posthumous Reproduction. April 5, 1999.

Interview, People Magazine, Posthumous Reproduction, April 19, 1999.

Interview, National Public Radio Program "Beyond Computers." The Ethics of Posthumous Reproduction. April 17, 1999

Interview, PBS Television, Frontline. The Ethical and Genetic Aspects of Infertility. June 1, 1999.

Interview, San Francisco Business Weekly, PROGENI and the Genetics of Infertility. August 3, 1999

Interview, The Oakland Tribune, PROGENI Program and the Genetics of Infertility, September 19, 1999

Interview, Life Magazine 1999 Year Book, Post-Mortem Sperm Retrieval, October 14, 1999

Interview, People Magazine, Post-Mortem Sperm Retrieval, November 10, 1999

Interview, CBS/KPIX TV, Channel 5. The Story of Testis Prosthesis. November 26, 1999.

Interview, New York Times, Commentary on TransgenICSI (Gerald Schatten PhD). December 27, 1999.

Interview, California Health Care Foundation, Healthline, TransgenICSI. December 23, 1999

Interview, MyPrimetime.com. Germ Cell Transplantation. January 6, 2000

Interview, Surfing Magazine. Cold Water Surfing and Reproduction, April 2000

Interview, USA Today/Healthscout.com. Faulty DNA Repair And Male Infertility. May 31, 2000

Interview, La Tercera, Santiago Chile. Faulty DNA Repair and Male Infertility, June 1, 2000

Interview, The Economist Magazine, Infertility and Inheritance, June 10, 2000

Interview, The San Francisco Chronicle, Faulty DNA Repair and Male Infertility, June 5, 2000

Interview, The Chicago Tribune, Faulty DNA Repair and Male Infertility, June 5, 2000

Interview, www.genomenewsnetwork.com. Faulty DNA Repair and Male Infertility. June 6, 2000

Interview, The Economist TV: E-vision. Infertility and Inheritance. June 13, 2000

Interview, San Francisco Chronicle, DNA Repair and Male Infertility, September 4, 2000

Interview, Strange but True: Love-Allergies. October 30, 2000

Interview, Urology Times. Varicoceles and Genetic Infertility. November 15, 2000

Interview, Dean Edell Show. ABC News. Male Genetic Infertility. December 14, 2000.

Interview, www.Healthscout.com. Folic Acid Linked to Male Fertility. March 20, 2001.

Interview, Fitness Magazine. Male Reproductive Health. April 11, 2001.

Interview, San Ramon Valley Times. Boule Gene May Be Associated with Male Infertility. July 1, 2001

Interview, Reuters News. Techniques, Technology and Male Infertility. July 13, 2001.

Interview, Fitness Magazine. Sexual Health. November 2001.

Interview, National Post Magazine, Canada, PROGENI and Genetic Infertility. September 12, 2001

Guest Lecturer, Yale Club of San Francisco. Infertility Medicine: A Collaboration between Science & Ethics, September 13, 2001.

Interview, San Francisco Chronicle, Sunday Health Section, Andropause: Androgen Deficiency in the Aging Male. February 10, 2002.

Interview, Der Spiegel (Spiegel TV). Ethical and Scientific Frontiers in Assisted Reproduction. January 2003.

Interview, Heart and Soul Magazine, Male Infertility. November 2003.

Interview, Renal and Urology News. Online Sperm Banks. October 2003.

Interview, Urology Times, Testis biopsy findings in Azoospermic Men, October 2003.

Interview, Oakland Tribune, Testis Mapping in Cancer Patients. Sunday, April 11, 2004

Interview, KTVU Channel 2. Testosterone and Age. April 30, 2004

Interview, GQ Magazine. Male Reproductive Health, January 2005.

Interview, RCN Radio Latin America (Columbia), Saving Sperm. December 1, 2004.

Interview, Tri-Valley Herald Newspaper. Testis mapping in cancer patients. April 2005.

Interview, Esquire Magazine. Mens Health: Premature Ejaculation, June 2005

Interview, The New York Times. Men's Health: Complications of Anabolic Steroid Use. June 2005

Interview, San Francisco Magazine, Male Infertility Diagnosis and Treatment. September 2005.

Interview, Minneapolis Pioneer Press, Testicular Implants. July 2005.

Interview, BabyCenter.com. IVF and ICSI Risks. November 3, 2005

Interview, Conceive Magazine. New Findings on Sperm Life Cycle. May 2006

Interview, ABC News On-Line. A Male Contraceptive Pill. December 2006.

Interview, KPIX Channel 5. Premature Ejaculation. February 5, 2007

Interview, San Jose Mercury News. The Male Biological Clock. February 6, 2007.

Interview, 3W Radio Show, Hot tubs and Male Infertility, Melbourne, Australia. March 6, 2007.

Interview Australian Herald Sun. Hot tubs and Male Infertility. Melbourne, Australia. March 5, 2007.

Interview, Contra Costa Times. The Male Biological Clock. March 5, 2007.

Interview, WebMD. Masturbation and Prostate Health. March 26, 2007.

Interview, Forbes.com. Lifestyle Causes of Male Infertility. April 4, 2007.

Interview, Best Life Magazine. Male Infertility and Age. April 7, 2007

Interview, Men's Health Magazine. In Praise of Testosterone. August 2007.

Interview, WNYC/NPR Radio Lab (Lulu Miller). The Male Pill. August 2007.

Interview, Newsweek. Moving Sperm on: Male Fertility. February 16, 2008.

Interview, CBS News, Channel 5. Health Update (Mulvihill MD) Erection drugs and hearing loss. March 18, 2008

Interview, KPIX News, Channel 5 News. Ken Bastida. Laptops and male infertility. July 17, 2008

Interview, iParenting. How to Involve Men in the Infertility Problem. September 29, 2008.

Interview, KGO Radio, Jon Brustow: The Turek Clinic: A Men's Health Experience. October 2, 2008.

Interview, KTVU Channel 2. Mornings at 2. Ross McGowan. Stem Cells from the Adult Testis. January 9, 2008

Interview, San Francisco Chronicle. David Perlman, writer. Stem Cells from the Adult Testis. January 13, 2008

Interview, View from the Bay. Myths of Male Infertility. February 11, 2009

Interview, Metropolis Magazine (NY). The Turek Clinic Office Design. February 2009.

Interview, WebMD, Erections after Heart Attacks, February 2009.

Interview, MSNBC, Male Infertility and Testis Cancer, March 2009

Interview, ABC TV, Channel 7, View from the Bay. Myths of Vasectomy and Vasectomy Reversal, March 21, 2009

Interview, ABC TV, Channel 7, View from the Bay. Prostate Health, May 20, 2009

Interview, KGO radio (CBS), Men's Health Week. June 9, 2009.

Interview, ABC-7 TV View from the Bay. The Truth about Testosterone. July 2, 2009

Interview, LA Parent Magazine. In the Know, Male Fertility Campaign, July 6, 2009

Interview, KPIX TV Ch 5 (CBS), Artificial Sperm: The End of Men? July 8, 2009

Interview, KGO radio (CBS), Joannie Greggins Health Talk Show. Men's Health. July 11, 2009

Interview, ABC-7 TV View from the Bay. 5 Tips for Conceiving. August 20, 2009

Interview, ABC-7 TV, View from the Bay. Erectile Dysfunction: What's After the Pill? October 29, 2009

Interview, ABC News. Regenerative Medicine: Making Penises. November 9, 2009

Interview, Blood & Marrow Transplant Information Network. FNA Mapping for Bone Marrow Transplant Survivors. Susan Stewart, Jan 18, 2010

Interview, ABC-7 TV, View from the Bay. Fertility Preservation in Men and Women. January 27th, 2010

Interview, Sirius 114/SM 199 Doctor Radio, The Future of Male Infertility. February 17, 2010

Interview, ABC-7 TV, View from the Bay. Infertility: Window into Mens Health. March 24th, 2010

Interview, Sirius 114/SM 199 Doctor Radio, Prostate Cancer and Male Infertility. April 7th, 2010

Interview, Doctors TV Show, Channel 2. Cures You Must Know About: FNA Mapping. April 19, 2010

Interview, ABC-7 TV, View from the Bay. Andropause: The Male Menopause. May 26th, 2010.

Interview, CBS-5 TV, Defining Male Andropause. June 23rd, 2010.

Guest Lecturer, Stem Cells, Erections and Men's Health. First Getty Salon Series, Getty Mansion, San Francisco, CA. June 24rd, 2010

Interview, ABC-7 TV, View from the Bay. Sex and Infertility: Getting the Spice Back. July 13th, 2010.

Interview, Pharmawire-Financial Times. Trends in Urology: Robotic Surgery. July 14th, 2010

Interview, Medscape. Creating an Artificial Testis. October 15, 2010.

Interview, ABCNewsHealth.com. Federal Funding for Artificial Testicle. February 1, 2012.

Interview, The Press (Russian Radio, Washington, DC). The Artificial Human Testicle, Feb 29, 2012.

Interview, Parade.com magazine. Erectile dysfunction and Incontinence, March 1, 2012

Interview, ABC-7 TV. The Truth About Testosterone. May 18, 2012.

- Interview, Dr. Radio, Sirius XM 81 (New York City). Fatherhood in the Future. June 13th, 2012
- Interview, ABC-7 TV. Reversing Older Vasectomies. Carolyn Johnson. July 17, 2012
- Interview, ABC-7 TV. Beyond the Headlines: Testis and Prostate Cancer. Sept 9, 2012.
- Interview, NYC radio, Bottom Line on Your Health, Sara Heiner. Sexual Health and Age. Sept 15, 2012
- Interview, Sirius XM Doctor Radio, NYC. Testosterone, Testicles and Fatherhood. Oct 2, 2013.
- Interview, The Huffington Post. Is Vasectomy the New Condom? Nov 22, 2013
- Interview/Co-host (Joseph Alukal MD). Doctor Radio, Sirius XM 81 (New York City). Nuts and Bolts on Men's Health. March 13th, 2014.
- Interview, The New York Times. Banking on My Future as a Father. April 4th, 2014.
- Interview, ABC-7 TV. Bay Area Team Developing Artificial Testicle. June 23rd, 2014.
- Interview, Prostate Cancer Tweet Chat, hosted by AUA Urology Care Foundation.
<https://twitter.com/UrologyCareFdn/status/517092522964058112>, September 30, 2014.
- Interview, Men's Health Tweet Chat, hosted by ABC News, New York, NY, November 18, 2014.
- Interview, KGO-AM 910. Ed Baxter Show. Freezing Sperm for Paternal Age. December 3, 2014
- Interview, Infertility Buster Tele-Summit. Host: Renee Waggenner. December 16, 2014
- Interview, The Doctors Show. Male Infertility and Varicocele. December 18th, 2014.
- Interview, Sirius XM Doctor Radio, NYC. Annual Fertility Summary. January 15, 2015
- Interview, Prostate Cancer Tweet Chat, hosted by The Men's Health Network.
<https://storify.com/MensHlthNetwork/pca2015chat-partii> February 25, 2015
- Interview, FertilityPlanit.com Webinar. Advice to Couples Trying to Conceive. March 19, 2015
(co-hosted by Dr. Suzanne Gilberg-Lenz)
- Interview, KGO-AM 910. Ed Baxter Show. Penis transplants. March 24, 2015
- Interview, VICE-LA Magazine. The Human Artificial Testicle. March 26, 2015
- Interview, K105 Radio (San Francisco). Kevin Kline's Sperm Count: Better Than an Aging Rhino? Two segments: April 23rd and April 27th, 2015.
- Interview, Video Webinar "Making Dad's" Summit. Host: Kirsten Darcy. Older Paternal Age Issues. June 9, 2015.

Interview, ABC-Univision Fusion Program. First Baby After Ovarian Transplantation. June 10, 2015

TEACHING

Medical Student and Resident Teaching

Lecturer, IDS 110. Surgical Subspecialties	12 hrs/yr	1994-2008
Lecturer, Life Cycle Block MSII	25 hrs/yr	2003-2008
Lecturer, Medicine 112. Ethics in Medicine	3 hrs/yr	1995-1997
Lecturer, Physiology 101	3 hrs/yr	1999-2008
Instructor, Urology Residents.	600 hrs/yr	1994-2008
Instructor, Reproductive Endocrinology Fellows	100 hrs/yr	1995-2008
Lecturer, Core Lecture Series, Department of Ob-Gyn	20 hrs/yr	1996-1998
Lecturer, Instructor, Family Practice Residency, UCSF	100 hrs/yr	1996-1998
Lecturer, Core Lecture Series, Medical Oncology Fellows	10 hrs/yr	2000-2008
Lecturer, Core BMS 225 Graduate Students	10 hrs/yr	2005-2008
Lecturer, Small Group Teaching, Residents & Fellows, Acad. of Med. Educ.	3 hrs/yr	2006-2008
Lecturer, Resident Lecture Series, Dept. of Urology, Stanford University	4 hrs/yr	2009-2011

University Courses

Course Director, Resident Seminar Series in Infertility, UCSF Department of Urology. 1994-present.

Invited Lecturer. Evaluation of the Infertile Male and Sperm Aspiration Techniques. UCSF Department of Urology Annual Postgraduate Course: Technological Innovations in Urology, Fairmont Hotel, San Francisco, Nov 10-11, 1994.

Invited Lecturer. Adolescent Varicoceles: When to Treat? UCSF Pediatric Urology Course, October 14-15 1994.

Invited Lecturer. Complications of Testis Cancer Therapy: Secondary Malignancies and Infertility. UCSF Department of Urology Annual Postgraduate Course: Innovations in Urology, Fairmont Hotel, San Francisco, CA. October 6-7, 1995.

Invited Lecturer. What Every Gynecologist Needs to Know About Male-Factor Infertility. Symposium, Clinical Infertility and Reproductive Endocrinology, UCSF Department of OB-GYN, April 25-26 1996.

Invited Lecturer. Male Factor Infertility: What You Need to Know. Symposium, Clinical Ob/Gyn and Gynecologic Histopathology and Primary Care for the Practicing Gynecologist. Department of Ob-Gyn, UCSF, ANA Hotel, San Francisco, October 21-24, 1996.

Invited Lecturer. Varicocele Repair: Techniques, Cost and Outcome and Cost Effective Evaluation of Male Infertility. UCSF Department of Urology Annual Postgraduate Course: Technical Innovations in Urology, Sheraton Palace Hotel, San Francisco, CA November 7-8, 1996.

Co-Chair and Lecturer. Cost Effective Evaluation of the Infertile Male, and Treatable Conditions in Male Infertility, and Genetic Causes of Male Infertility. UCSF Annual Post-Graduate Course: Strategies in Office Based Urology. Ritz Carlton Hotel, San Francisco, CA. Dec 12-13, 1997.

Invited Lecturer. Management of Male Infertility. Advances in Endocrinology and Metabolism Course, Divisions of Endocrinology and Metabolism, Department of Medicine, UCSF. Miyaki Hotel, San Francisco, March 6-7 1998.

Invited Lecturer. Male Fertility Diagnosis and Treatment: What's New for 1998? UCSF Annual Update in Clinical Ob-Gyn Course. Hyatt Hotel, San Francisco, CA. October 10, 1998.

Invited Lecturer. Fertility Issues in Patients with Congenital Anomalies. Innovations in Urology Post-Graduate Course, UCSF Department of Urology. Ritz Carlton Hotel, San Francisco, CA. December 11-12, 1998.

Invited lecturer, ICSI, Genetics and Male Infertility. Grand Rounds, Department of Ob-Gyn, Summit Medical Center, Oakland Ca, July 13, 1999.

Invited lecturer, Intracytoplasmic Sperm Injection: Outcomes and risks. UCSF Annual OB-Gyn Update: What Does the Evidence Tell Us? San Francisco, CA, November 6, 1999.

Invited Lecturer. Male Factor Infertility: Sterility to Fertility. UCSF Annual Ob-Gyn Update: What Does The Evidence Tell Us? October 15, 2000.

Invited Lecturer. Male Factor Issues: From Infertility to Fertility to Sterility. UCSF Annual Ob-Gyn Update: What Does The Evidence Tell Us? October 8, 2001.

Invited Lecturer. Innovative Treatments in Azoospermic Men. Surgical Innovations in Urology Post-Graduate Course, UCSF Department of Urology. Nikko Hotel, San Francisco, CA. January 25-26, 2002.

Invited Lecturer. Male Infertility. Infertility and Reproductive Endocrinology, UCSF Department of Obstetrics, Gynecology and Reproductive Sciences. Sheraton Fishermans Wharf, San Francisco, CA. April 11-12, 2002.

Invited Lecturer. New Approaches to Cancer and Fertility. UCSF Department of Urology. Urologic Oncology Postgraduate Course, San Francisco, CA. January 25, 2003.

Invited Lecturer. Androgen Replacement Therapy and Fertility Preservation: Germ Cell Transplants UCSF Department of Urology Annual Postgraduate Course, Stanford Court Hotel, San Francisco, CA. January 29-30, 2004.

Co-Chair and Lecturer. Evidence Based Approach to Common Urologic Problems. UCSF Annual Post-Graduate Course, Marines Memorial Hotel, San Francisco, CA, February 3-4, 2006.

Invited Lecturer. The Nuts and Bolts of the Male Fertility Evaluation. UCSF Ob-Gyn Gynecology and Endocrinology Post Graduate Course. Chair: Marcelle Cedars MD. Argonaut Hotel, San Francisco, CA April 6-7, 2006.

Invited Lecturer. Testis Cancer. UCSF Department of Urology Annual Postgraduate Course, Hilton Hotel, San Francisco, CA. February 2-3, 2007.

Invited Lecturer. Vasectomy Reversal or IVF: Can Computer Models Help Us Decide? and What is the Best Method of Sperm Retrieval for Nonobstructive Azoospermia? UCSF Department of Urology Annual Postgraduate Course, Sir Francis Drake Hotel, San Francisco, CA. February 8-9, 2008.

Invited Lecturer. Vasectomy Reversal vs IVF-ICSI: Can Computer Modeling Help Us Decide? UCSF Obstetrics, Gynecology and Endocrinology Post Graduate Course. Chair: Marcelle Cedars MD. Hilton Hotel, San Francisco, CA April 3-4, 2008.

Invited Lecturer, Novel Treatments for Male Infertility. Annual Postgraduate Course in Medical Endocrinology. University of California San Francisco, San Francisco, March 15, 2009.

Invited Lecturer, Managing the Young Hypogonadal Male. American Association of Clinical Endocrinologists, Northern California Chapter, San Francisco, CA September 21-23, 2012.

Invited Lecturer, Surgical Treatment of Nonobstructive Azoospermia and Update on the Diagnosis and Management of Ejaculatory Duct Obstruction. New York University School of Medicine, Department of Urology, Postgraduate Course, New York, NY, Dec 4-7, 2013.

National Courses

Invited Lecturer. American Urological Association Post-Graduate Course. The Pituitary-Gonadal Axis in the Infertile Male: How to Manage an Endocrine Workup. Advances in Male Infertility, Chairman LI Lipshultz MD. Las Vegas, NV. April 26, 1995.

Invited Lecturer. American Urological Association Post-Graduate Course. Diagnostic Strategies in Male Infertility Treatment: Astheno-teratozoospermia. Chairman Harris Nagler MD. Orlando, FL. May 8, 1996.

Invited Lecturer. AUA Office of Education Postgraduate Course. Introduction to Clinical Microsurgery. Chairman LI Lipshultz MD. Houston, Texas, June 21-23, 1996.

Co-Director and Lecturer. AUA Office of Education Postgraduate Course. Innovations in Male Infertility. Cancun, Mexico, February 23-26, 1997.

Invited Lecturer. American Urological Association Postgraduate Course. How to Manage the Pituitary Gonadal Axis in the Evaluation of the Infertile Male, and Empiric Medical Therapy for Infertility. Chairman, Larry Lipshultz MD, New Orleans, LA. April 12, 1997.

Invited Lecturer. AUA, Confederacion Americana de Urologia and Urologic Society of Panama: Seminar on Erectile Dysfunction, Peyronie's Disease, Priapism and Male Infertility. Panama City, Republic of Panama, January 13-16, 1998.

Invited Lecturer. American Urological Association Postgraduate Course. How to Manage the Pituitary Gonadal Axis in the Evaluation of the Infertile Male, and Empiric Medical Therapy for Infertility. Chairman, Larry Lipshultz MD, San Diego, CA. May 11, 1998.

Invited Lecturer. ASRM Postgraduate Course "Male Reproduction: Basic, Genetic, and Clinical Information for the Next Millenium." Lectures included: Spermatogenesis: Cell types, Mitosis, Meiosis, Spermiogenesis; Genomic DNA Micromorphology; Ejaculatory Duct Obstruction Diagnosis and Treatment; Syndromes with Reproductive Dysfunction; Utility of FNA Mapping for Sperm Retrieval. ASRM Annual Meeting, San Francisco, CA October 3-4, 1998.

Invited Lecturer. American Urological Association Postgraduate Course. How to Manage the Pituitary Gonadal Axis, Empiric Medical Therapy for Infertility and the New Genetics of Male Infertility Chairman, Larry Lipshultz MD, Dallas, TX. May 1, 1999.

Co-Chairman, American College of Surgeons, Northern California Chapter. Emerging Technologies in the Treatment of BPH: Microwaves, Lasers and Ultrasound. May 7, 1999, San Francisco, CA.

Invited lecturer. Annual McDonald Symposium-Mayo Clinic. Lectures included: Evaluation of Male Infertility; Ejaculatory Duct Obstruction; Techniques of Sperm Aspiration and Genetic Risks of ICSI. Scottsdale, AZ, March 9-12, 2000.

Chairman, American College of Surgeons, Northern California Chapter. Gene Therapy in Urology. May 3, 2000, San Francisco, CA.

Invited Lecturer. American Urological Association Postgraduate Course. How to Manage the Pituitary Gonadal Axis, Empiric Medical Therapy for Infertility. Chairman, Larry Lipshultz MD, Atlanta, GA. May 3, 2000.

Invited Lecturer. American Society of Reproductive Medicine, Postgraduate Seminar Workshop. Partnering in Care in the Management of Difficult Infertility Cases. San Diego, CA. October 25, 2000.

Invited Lecturer. National Society of Genetic Counselors, Postgraduate Course on the Genetics of Infertility. Savannah, GA. November 2-4, 2000.

Invited Keynote Lecturer. Azoospermia: From Sterility to Fertility. Kimbrough Military Seminar of The Society of Government Urologists. San Diego, CA, January 14-16, 2001.

Invited Lecturer. American Urological Association Postgraduate Course. How to Manage the Pituitary Gonadal Axis, Diagnostic Surgery for Infertility. Chairman, Larry Lipshultz MD, Anaheim, CA. June 2, 2001.

Invited Lecturer. Pacific Coast Reproductive Society, Nonobstructive azoospermia: What is the best way to retrieve sperm? Palm Springs, CA, April 19-21, 2002

Invited Lecturer. American Urological Association Postgraduate Course. How to Manage the Pituitary Gonadal Axis, Diagnostic Surgery for Infertility. Chairman, Larry Lipshultz MD, Orlando FL. June 1, 2002.

Invited Lecturer. Western Section, American Urological Association Postgraduate Course. Testis Physiology: the Nuts and Bolts. Chairman, Jake Rajfer MD, Kauai, HI. October 21, 2002.

Invited Lecturer. AUA Office of Education Postgraduate Course. Clinical Microsurgery. Chairman RD McClure and Lipshultz MD. Irvine, CA, March 20-22, 2003.

Invited Lecturer. American Society of Andrology Testis Workshop. Functional Genomics in the Diagnosis of Male Infertility. Phoenix, AZ, March 27-29, 2003

Invited Lecturer. American Society of Andrology. Andrology Laboratory Workshop. The Evaluation of Sperm Motility Disorders, Present and Future. Phoenix, AZ, April 1-2, 2003

Invited Lecturer. American Urological Association Postgraduate Course. How to Manage the Pituitary Gonadal Axis, and Diagnostic Surgery for Infertility. Chairman, Larry Lipshultz MD, Chicago, IL. April 26, 2003.

Course Chair and Lecturer. ASRM Postgraduate Course: "Gamete Development, Genetics and Testing in Male Reproductive Failure." Lectures included: HPG axis genes, Motility genes, Syndromes with reproductive dysfunction, Germ cell transplantation and Sperm retrieval techniques. ASRM Annual Meeting, San Antonio, TX October 11-12, 2003.

Invited Lecturer. American Urological Association Postgraduate Course. Surgical and Non-Surgical Treatments for Male Infertility. Chairman, Larry Lipshultz MD, San Francisco, CA. May 9, 2004,

Invited Speaker. Testosterone Replacement in the Aging Male and Male Infertility: The Basics. In: Genitourinary Health Symposium, Johns Hopkins University, Chicago, IL. Oct 22-23, 2004

Invited Lecturer. American Urological Association Postgraduate Course. Surgical and Non-Surgical Treatments for Male Infertility. Chairman, Larry Lipshultz MD, San Antonio, TX. May 23, 2005.

Invited Lecturer. American College of Surgeons, Urology Postgraduate Course. Review of Male Infertility. Chairman, Jerome Richie MD and Richard Williams MD, San Francisco, CA. October 16, 2005.

Invited Lecturer. American Urological Association Postgraduate Course. Surgical and Non-Surgical Treatments for Male Infertility. Chairman, Larry Lipshultz MD, Atlanta, GA. May 24, 2006.

Invited Lecturer. American Urological Association Postgraduate Course. Surgical and Non-Surgical Treatments for Male Infertility. Chairman, Larry Lipshultz MD, Anaheim, CA. May 10, 2007.

Invited Lecturer. American Urological Association Postgraduate Course. Surgical and Non-Surgical Treatments for Male Infertility. Chairman, Larry Lipshultz MD, Orlando, FL. May 22, 2008.

Invited Lecturer. American Urological Association Board Review Course. Male Infertility. Dallas, TX. July 10-13th, 2008.

Course Chair and Lecturer. Male Sexual Health- Infertility and Erectile Dysfunction. Postgraduate Review Course. Western Section, American Urological Association. Monterey, CA, October 27, 2008.

Invited Lecturer. ASRM Postgraduate Course "Unravelling the Mysteries of Spermatogenesis: Contemporary Therapies, Stem Cells and Beyond" Lectures included: Acquired Disorders of Spermatogenesis; Male Infertility: Window into Mens Health; Sperm Retrieval Techniques: Which Approach is Best in 2008? and IVF vs Vasectomy Reversal: Which is Best for Advanced Maternal Age? ASRM Annual Meeting, San Francisco, CA November 9-10, 2008.

Course Chair and Lecturer. Pacific Coast Reproductive Society Postgraduate Course. Sperm Retrieval Video Workshop. Palm Springs, CA, April 25, 2009.

Invited Lecturer. American Urological Association Board Review Course. Male Infertility. Dallas, TX. July 9-12th, 2009.

Invited Lecturer. American Urological Association Board Review Course. Male Infertility. Dallas, TX. July 15-18th, 2010.

Invited Lecturer. American Urological Association Board Review Course. Male Infertility. New Orleans, LA. July 7-10th, 2011.

Invited Lecturer. ASRM Postgraduate Course "Fertility Preservation in the Male: From Childhood to Adulthood, Stem Cells to Spermatozoa." Lectures included: Cancer after Fertility: What are the Links? and Fertility Restoration after Cancer: Current and Future Therapies. ASRM Annual Meeting, Orlando, FL Oct 13th, 2011.

Invited Lecturer. American Urological Association Board Review Course. Male Infertility. New Orleans, LA. July 12-15, 2012.

Invited Lecturer. 25th Annual National Cystic Fibrosis Family Educational Conference. Men with CF ARE Having Children. Sofitel Hotel, Redwood City, CA July 28-29, 2012

Invited Lecturer. American Urological Association Board Review Course. Male Infertility. New Orleans, LA. May 30-June 2, 2013.

Invited Lecturer. American Urological Association Board Review Course. Male Infertility. New Orleans, LA. June 6-8, 2014.

International Courses

Invited Lecturer. Treatment of Male Factor Infertility: From Insemination to ICSI and Cost-Effective Evaluation of Male Infertility. Guest of the VI Congress F.L.A.S.E.F., Panama City, Panama, March 22-26, 1999.

Invited Lecturer. IX Congress of So. M.I. Par. Sexuality and Fertility Among Spinal Cord Injury Patients. Florence, Italy. October 27-30, 1999.

Invited Lecturer, VII International Congress on Andrology. Post-Graduate course lecture: Testicular Mapping for TESE. Montreal, Canada. June 14-18 2001.

Invited Lecturer. 1st Mansoura International Conference on Andrology and Sexology. Lectures: Varicocele: to Treat or Not and Why? and Fertility from Sterility: the Good and the Bad. Cairo, Egypt, September 6-8, 2001.

Invite Keynote Speaker, V Congresso Nazionale della Societa' Italiana di Andrologia Medica. Microarray application for studying testicular gene expression; and Varicocele: to treat and why. Catania Sicily, Italy. May 29-31, 2002.

Invited Lecturer, 18th Annual Meeting European Society Human Reproduction (ESHRE). Special Interest Group: Andrology Post-Graduate course. Microarrays for studying spermatogenesis genes. Vienna, Austria. June 29-July 3, 2002.

Invited Lecturer. American College of Surgeons, Urology Postgraduate Course. Male Infertility. Chairman, Jerome Richie MD and Richard Williams MD, San Francisco, CA, October 13, 2002.

Course Chair. Societe Internationale d'Urologie, Male Infertility Postgraduate Course. Honolulu, HI, October 3-7, 2004

Invited Lecturer. International Society of Andrology. Chair, Postgraduate Workshop: Imaging in Male Infertility and invited speaker: Diagnostic Surgery for Male Infertility. Seoul, South Korea, June 10-15th, 2005

Invited Lecturer. American College of Surgeons, Urology Postgraduate Course. Male Infertility. Chairman, Jerome Richie MD and Richard Williams MD, San Francisco, CA, October 15, 2005.

Course Chair. Societe Internationale d'Urologie, Male Infertility Postgraduate Course. Capetown, South Africa, November 11-16th, 2006.

Invited Lecturer, CHE Summit on Environmental Challenges to Reproductive Health and Fertility. Responder: Science linking environmental contaminant exposures with fertility and reproductive tract health impacts in the Adult Male. Mission Bay, San Francisco, CA Jan 28-30, 2007

Program Chair. Annual Meeting, American Society of Andrology, Emerging Concepts and Technologies, Albuquerque, NM, April 12-15th, 2008

Invited Lecturer, Debate: ART vs Classical Therapy for Male Infertility (vs. Eberhard Nieschlag) International Congress of Andrology, Post Graduate Course, Barcelona, Spain, March 7-10, 2009

Invited Lecturer, Male Infertility Diagnosis. Male Infertility Post-Graduate Course (Chair Suks Minhas MD). British Association of Urological Surgeons (BAUS), June 18, 2013, Manchester, England.

Course Chair, Lecture. ASRM Postgraduate Course #22 "The Significance, Implications and Heritability of Male Infertility as a Disease." ASRM Annual Meeting in conjunction with IFFS, Boston, MA Oct 12th-17th 2013.

Invited Lecturer, Marketing A Men's Health Practice. Men's Health World Congress, Washington DC, Dec 7-8th 2013

STUDENTS AND POSTDOCTORAL FELLOWS SUPERVISED

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| 1994-1995 | Abdel K. Younes M.D. Al-Alzhar University Center for Research and Management of Impotence and Infertility, Cairo, Egypt |
| 1996 | Satya Prakash M.D. Reader, WHO Visiting Post Doctoral Fellowship, Department of Urology, Post-Graduate Institute of Medical Sciences, Haryana, India. |
| 1995-97 | Khalid Aslam BS. Premedical Student Research (20 hrs/wk) |
| 1997 | Pajvi Mehta PhD, Science Director, Hope Infertility Clinic, Bangalore, India |
| 1997 | Nathan Bachtell BS. UCSF Student Research Committee Summer Fellowship 1997 |
| 1997-98 | Neelima Vegasna BS. Premedical Student Research (4 hrs/wk) |
| 1998 | Manmohan Misro M.D. Research Officer, WHO Visiting Post-Doctoral Fellowship, Department of Reproductive Medicine, National Institute of Health and Family Welfare, New Delhi, India. |
| 1998 | David Nudell MD. Gianinni Postdoctoral Fellow. Laboratory of Renee Reijo Ph.D UCSF. Winner of 1999 SSMR Student Travelling Award |

- 1998-1999 Douglas Lee. Premedical Student Research. (4 hrs/wk)
- 1998-1999 Michael Singer B.S. UCSF Medical Student Research (4 hrs/wk)
- 2000-2001 Selahittin Cayan M.D. Andrology Fellow. Professor, Dept of Urology; University of Mercin, Mercin, Turkey. Winner: 2000 Society of the Study of Male Reproduction (SSMR) Traveling Award.
- 2001-2002 Ulrike Zenke M.D., Department of Ob-Gyn, Northwestern University, Chicago, IL
- 2001-2003 Uche Ezeh M.D. Fellow in Male Reproductive Medicine and Microsurgery.
- 2003-2004
- Sum 2004 Erica Li, B.S. Stanford University Student. Volunteer Internship. Pediatrician, UCLA.
- 2004-2006 Shai Shefi MD, Andrology Fellow. Associate Professor of Urology, Chaim Sheba Medical Center, Tel-Hashomer, Israel
- Sum 2006 Katie Seeger, undergraduate student at UPenn. Pursuing PhD in Anthropology.
- 2006-2008 Thomas J. Walsh MD, MS. Andrology Fellow. Winner 2007 and 2008 ASA Cook Traveling Award. Associate Professor, University of Washington, Seattle, WA
- 2007-2009 James F. Smith MD, Andrology Fellow. Winner 2008 ASA NIH Traveling Award; Assistant Professor, University of California San Francisco
- 2008-2010 Alan Shindel MD, Andrology Fellow, AFUD Scholar 2008-2010. Assistant Professor, University of California, Davis.
- 2007-2009 Raul Clavijo MD, Howard Hughes Research Institute Scholar, UCSF. Urology Resident, UCLA.
- 2008-2010 Alex Ignatov B.S. Turek Clinic Research Fellow.
- Sum 2010 Monika Beliveau, LaSalle University; Clinical Research Intern. Nurse, Massachusetts General Hospital.
- 2007-2011 James Shima B.S., M.S. Doctoral Thesis Committee. Department of Bioengineering and Therapeutic Sciences, UCSF (Thesis Advisor: Kathleen Giacomini PhD)
- 2011-2013 Paulani Mui, B.S. Turek Clinic Research Fellow.
- 2011-2013 Holley Muraco B.S. NIH Travelling Award, American Society of Andrology Meeting
- 2012-2013 Matt Amin, B.S., Turek Clinic Research Fellow
- 2012- Daniel Chin MD, Urology Resident, USC School of Medicine, CA

PATENTS

Issued: RA Reijo Pera, PJ Turek, N Kossack. Pluripotent Human Spermatogonial Stem Cell-Derived Cells. October 2008. Issued March 18, 2014. #8,673,637.

Submitted: PJ Turek and JA Kurhanewicz. Nuclear Magnetic Resonance Spectroscopy-Based Metabolomic Profiling Of The Human Testis in Health and Disease. April 2009

PUBLICATIONS

PEER REVIEWED/ORIGINAL MANUSCRIPTS

1. Kerkering TM, Schwartz PM, Espinal-Ingroff A, **Turek PJ**, Diasio RB. 5-Fluorocytosine Susceptibility of Pathogenic Fungi in the Presence of Allopurinol: Potential of Improving the Therapeutic Index of 5-Fluorocytosine. *Antimicrobial Agents and Chemotherapy*, 24 (3): 448-449, 1983.
2. Schwartz PM, **Turek PJ**, Hyde CM, Cadman EC, Handschumacher RE. Altered Plasma Kinetics of 5-FU at High Dosage in Rat and Man. *Cancer Treatment Reports*, 69 (1): 133-136, 1985.
3. Bashford CL, Alder GM, Gray MA, Micklem KJ, Taylor CC, **Turek PJ**, and Pasternak CA. Oxonol Dyes as Monitors of Membrane Potential: The Effect of Viruses and Toxins on the Plasma Membrane Potential of Animal Cells in Monolayer Culture and in Suspension. *Journal of Cellular Physiology*, 123 (3): 326-336, 1985.
4. Schwartz PM, Moir RD, Hyde CM, **Turek PJ**, Handschumacher RE. Role of Uridine Phosphorylase in the Anabolism of 5-Fluorouracil. *Biochemical Pharmacology*, 34 (19): 3385-3389, 1985.
5. **Turek PJ**, Grumet FC, Engelman EG. Molecular Variants of the HLA-B27 Antigen in Healthy Individuals and Patients with Spondyl-arthropathies. *Immunological Reviews*, 86: 71-91, 1985.
6. Alpert SD, **Turek PJ**, Fong SK, Engelman EG. Human Monoclonal Anti-T cell Antibody from a Patient with Juvenile Rheumatoid Arthritis. *Journal of Immunology*, 138 (1): 104-108, 1987.
7. **Turek PJ**, Malloy TR, Cendron M, Carpiello V, Wein AJ. KTP-532 Laser Ablation of Urethral Strictures. *Urology*, 40 (3): 330-334, 1992.
8. Rovner E, **Turek PJ**, Duckett JW. Ureterostomy in-situ. Rediscovering an Old Technique. *Society for Pediatrics Newsletter*, 1993.
9. **Turek PJ**, Ewalt DH, Snyder HM and Duckett JW. Normal Epididymal Anatomy in Boys. *Journal of Urology*, 151 (3): 726-727, 1994.
10. **Turek PJ**, Ewalt DH, Snyder HM, Stampfers D, Blyth B, Huff DS and Duckett JW. The Absent Cryptorchid Testis: Surgical Findings and Their Implications for Diagnosis and Etiology. *Journal of Urology*, 151 (3): 718-721, 1994.
11. Barba CA, Kauder D, Schwab, CW, **Turek PJ**. Pelvic Kidney Laceration: An Unusual Complication of Percutaneous Diagnostic Peritoneal Lavage-Case Report. *Journal of Trauma*, 36: 277-279, 1994.
12. **Turek PJ**, Gilbaugh J.H, Lipshultz LI. Imaging in the Diagnosis and Treatment of Male Infertility. *Current Opinion in Urology*, 4: 156-161, 1994.
13. Mozley PD, Heyman S, Duckett JW, **Turek PJ**, Snyder HM, Maislin G, Beshaim H. Direct Vesicoureteral scintigraphy: Quantifying the Early Outcome Predictors in Children with Primary Reflux. *Journal of Nuclear Medicine*, 35: 10, 1994
14. **Turek PJ**, Williams RW, Gilbaugh JH, Lipshultz LI. The Reversibility of Anabolic-Induced Azoospermia. *Journal of Urology*, 153 (5): 1628-1630, 1995.
15. **Turek PJ**. Declining semen quality in adults. Editorial Commentary. *Current Opinions in Urology*, 5(4):1995.
16. **Turek PJ**, Kim M, Gilbaugh JH, Lipshultz LI. The Clinical Characteristics of 82 Patients with Sertoli-Cell Only Syndrome. *Fertility & Sterility*, 64: 1197, 1995
17. **Turek PJ**, Tomaczecki JE, Malkowicz SB, Wein AJ, Peehl D. The Role of the Sertoli Cell in Active Immunosuppression in the Human Testis. *British Journal of Urology*, 77: 891-895, 1996.
18. **Turek PJ**, Magana JO, Lipshultz LI. Semen Parameters Before and After Transurethral Surgery for Ejaculatory Duct Obstruction. *Journal of Urology*, 155: 1291-3, 1996.

19. Nguyen HT, Etzell J, **Turek PJ**. Normal Human Ejaculatory Duct Anatomy: A Study of Cadaveric and Surgical Specimens. *Journal of Urology*, 155: 1639-1642, 1996
20. **Turek P.J.** Male Infertility Redefined: Back to the Basics. *Journal of Urology*, 155: 1643, 1996
21. Chang JJ and **Turek PJ**. ART and the Treatment of Male Infertility: The Good and the Bad. *Current Opinion in Urology*. 6: U193, 1996.
22. Kim ED, Gilbaugh JH, Patel VR, **Turek PJ** and Lipshultz LI. Testis Biopsies Frequently Demonstrate Sperm in Azoospermic Men with Significantly Elevated FSH Levels. *Journal of Urology*, 157: 144, 146, 1997.
23. Smikle CB and **Turek PJ**. Hypoosmotic Swelling Can Accurately Determine the Viability of Nonmotile Sperm. *Molecular Reproduction and Development*. 47: 200-203, 1997.
24. **Turek PJ** and Smikle CB. Viability of Non-Motile Sperm. *Assisted Reproduction Reviews*. 7: 34-38, 1997.
25. **Turek PJ**, Imok Cha, and Ljung, B-M. Systematic Fine Needle Aspiration of the Testis: Correlation to Biopsy and the Results of Organ "Mapping" for Mature Sperm in Azoospermic Men. *Urology*. 49: 743-748, 1997.
26. Nudell D. and **Turek PJ**. Is Fertility Impaired After Unilateral Cryptorchidism? *Curr Opin Urol*. 7:3, 1997.
27. Freedland SJ, Cha I, **Turek PJ**. Non-Palpable Leydig Cell Tumors Diagnosed by Fine Needle Aspiration. *Journal of Urology*, 158: 543-544, 1997.
28. **Turek PJ**, Aslam KH, Younes A.K, Nguyen HT. Observations on Seminal Vesicle Dynamics in an *InVivo* Rat Model. *Journal of Urology*. 159: 1731-1734, 1998.
29. Nudell DM, Conaghan J, Pedersen RA, Givens CR, Schriock ED and **Turek PJ**. The Mini-MESA for Sperm Retrieval: A Study of Urological Outcomes. *Human Reproduction*. 13: 1260-1265, 1998.
30. **Turek P.J.** Boxers and Biopsies: Separating Fashion From Fact in Male Infertility. *Journal of Urology*. 160: 1337, 1998
31. Kostiner DR, **Turek PJ** and Reijo RA. Male Infertility: Analysis of the Markers and Genes on the Human Y Chromosome. *Human Reproduction*. 13: 3032-3038, 1998.
32. **Turek PJ**, Nudell DM and Conaghan J. Methods of Epididymal Sperm Retrieval: A Urologic Perspective. *Assisted Reproduction Reviews*. 9: 60-64, 1999.
33. **Turek PJ**, Givens C, Schriock ED, Meng M, Pederson RA and Conaghan J. Testis sperm extraction and intracytoplasmic sperm injection guided by prior fine needle aspiration mapping in nonobstructive azoospermia. *Fertility and Sterility*. 71: 552-8, 1999
34. Bachtell N, and Conaghan J. and **Turek PJ**. The Relative Viability of Human Spermatozoa from the Testis, Epididymis and Vas Deferens Before and After Cryopreservation. *Human Reproduction*. 14: 101-104, 1999.
35. Black LD, Nudell DM, Cha I, Cherry AM and **PJ Turek**. Compound Genetic Defects as a Cause of Male Infertility. *Human Reproduction*. 15: 449-51, 2000.
36. **Turek P.J.**, I. Cha, Ljung, B-M., and Conaghan J. Diagnostic Findings From Testis Fine Needle Aspiration Mapping in Obstructed and Non-Obstructed Azoospermic Men. *Journal of Urology*, 163: 1709-1716, 2000.
37. Nudell DM, Castillo M, **Turek PJ**, and Reijo Pera, R. Increased frequency of mutations in DNA in infertile men with meiotic arrest. *Human Reproduction*. 15: 1289-1294, 2000.
38. Meng MV, Cha, I. Ljung B-M and **Turek PJ**. The Relationship Between Classic Histologic Pattern and Sperm Findings on Fine Needle Aspiration Map in Infertile Men. *Human Reproduction*. Sep;15:1973-1977, 2000.

39. Meng MV, Cha I, Ljung B-M, and **Turek PJ**. Testicular Fine Needle Aspiration in Infertile Men: Correlation of Cytologic Pattern with Biopsy Histology. *Am. J. Surg. Path.* 25: 71-79, 2001.
40. Cayan S., Lee D, Nudell DM, Black LD, Reijo Pera, R and **Turek PJ**. Response to Varicocelectomy in Oligospermic Infertile Men with and without Coexisting Genetic Infertility. *Urology.* 57: 530-535, 2001.
41. Cayan S, Lee D, Conaghan J, Givens CA, Schriock ED, Ryan IP, and **Turek PJ**. A comparison of intracytoplasmic sperm injection outcomes with fresh and cryopreserved sperm from the same couples. *Human Reproduction.* 16: 495-499, 2001.
42. Meng MV, Black LD, Cha I, Ljung B-M, Reijo Pera RA, and **Turek P.J**. Impaired spermatogenesis in men with congenital absence of the vas deferens. *Human Reproduction.* 16: 529-533, 2001.
43. Kadioglu A, Cayan S, Tefekli A, Orhan I, Engin G, Tellaloglu S and **Turek PJ**. Does response to treatment of ejaculatory duct obstruction in infertile men vary with pathology? *Fertility and Sterility.* 76:138-42, 2001.
44. Cayan S., Schriock E, Conaghan J, and **Turek PJ**. Birth after intracytoplasmic sperm injection using testicular sperm from men with Kartagener/immotile cilia syndrome. *Fertil Steril.* 76: 1-3, 2001.
45. Hawkes WC and **Turek PJ**. The effects of dietary selenium on sperm motility in healthy men. *J. Androl.* 22: 764-771, 2001.
46. Damani MN, Master V, Meng MV, **Turek PJ**, Oates RM. Post-chemotherapy ejaculatory azoospermia: Fatherhood with sperm from testis tissue using intracytoplasmic sperm injection. *J Clin Oncology* 20: 930-936, 2002.
47. Cayan S, Erdemir F, Ozbey I, **Turek PJ**, Kadioglu A, Tellaloglu S. Can varicocelectomy significantly change the way couples use assisted reproductive technologies? *Journal of Urology* 167:1749-56, 2002.
48. Moore FL, Jaruzelska J, Firpo M, **Turek PJ**, Dorfman DM, Reijo Pera RA. A human homolog of the *Drosophila Pumilio* is expressed in embryonic stem cells and germ cells and interacts with DAZL (Deleted in Azoospermia-like). *Proc. Nat. Acad. Sciences (USA)*. 2 Jan 2003
49. Xu EY, Lee DF, **Turek PJ**, Kornberg TB, and Reijo Pera RE. The human *BOULE* gene rescues meiotic defects in flies carrying a *Boule* mutation. *Hum. Mol. Genet.* 12: 169-175, 2003.
50. Fox M, Ares XV, **Turek PJ**, Haqq C, and Reijo Pera R. Feasibility of global gene expression analysis in testicular biopsies from infertile men. *Molecular Reproduction and Development.* 66: 403-21, 2003.
51. Purohit R, Wu D, Shinohara K, and **Turek PJ**. A comparison of three diagnostic methods in the evaluation of ejaculatory duct obstruction. *J. Urol.* 171: 232-36, 2004.
52. Clark AT, Rodriguez, RT, Abeyta MJ, Cedars MI, Firpo MJ, **Turek PJ**, Reijo Pera RA. Chromosome 12p13.1, a hot spot for teratocarcinoma, encodes 3 pluripotency-associated genes with remarkable evolutionary divergence from humans to mice. *Stem Cells.* 22: 169-180, 2004.
53. Danziger K, Black LD, Keiles S, Kammesheidt A, and **PJ Turek**. Improved detection of cystic fibrosis mutations in infertility patients with DNA sequence analysis. *Hum Reprod.* 19:540-6, 2004. (Epub 2004 Jan 29)
54. Zenke U, Jalalian L, Suthar A, and **Turek PJ**. The difficult MESA: findings from tubuli recti sperm aspiration. *J Ass Reprod Genet.* 21: 31-35, 2004.
55. Gonsalves J, Sun F, Schlegel PN, **Turek PJ**, Hopps CV, Greene C, Martin RH, Reijo Pera R. Defective recombination in infertile men. *Hum Mol Gen.* 13: 2875, 2004.
56. **Turek PJ**, Master V, and Testis Prosthesis Study Group. Safety and effectiveness of a new saline-filled testicular prosthesis. *J. Urol.* 172: 1427-30, 2004.

57. **Turek PJ**. Practical approach to the diagnosis and management of male infertility. *Nature Clin Pract Urol*. 2: 1-13, 2005.
58. Mahadevan U, Terdiman J, Aron J, Jacobsen S and **Turek PJ**. Infliximab and semen quality in men with Inflammatory bowel disease. *Inflam Bowel Dis*. Apr;11(4):395-99, 2005.
59. Sun F, Oliver-Bonet, M, **Turek PJ**, Ko E, and Martin RH. Meiotic studies in an azoospermic human translocation (Y;1) carrier. *Mol Hum Reprod*. 11: 361-4, 2005
60. Gonsalves J, **Turek PJ**, Schlegel PN, Hopps CV, Reijo Pera R. Recombination in infertile men with Klinefelter syndrome. *Reproduction*. 130: 223-9, 2005.
61. Cooperberg MR, Chi T, Jad A, Cha I, and **PJ Turek**. Variation in testis biopsy interpretation: implications for male infertility care in the era of intracytoplasmic sperm injection. *Fertil & Steril*. 84: 672-7, 2005
62. Ezeh UI, **Turek PJ**, Reijo Pera, RA and Clark AT. Seminoma and Breast Cancer have Expression Profiles Similar to Pluripotent Stem Cells. *Cancer*. 104:2255-65, 2005
63. Meng M, Green K, **Turek PJ**. Surgery or assisted reproduction? A decision analysis of treatment costs in male infertility. *J. Urol*, 174: 1926-31, 2005.
64. Oliver-Bonet M, **Turek PJ**, Sun F, Ko E, and Martin RH. Temporal progression of recombination in human males. *Mol Hum Reprod*. Epubl 7.28.2005.
65. Sun F, Greene C, **Turek PJ**, Ko E, Rademaker A, Martin RH. Immunofluorescent synaptonemal complex analysis in azoospermic men. *Cytogenet Genome Res*. 111:366-70, 2005.
66. Tung JY, Rosen MP, Nelson LW, **Turek PJ**, Witte JS, Cramer DW, Cedars MI, Reijo Pera, RA. Variants in Deleted in AZoospermia-Like (DAZL) are correlated with reproductive parameters in men and women. *Hum Gen*. epublish Nov 2005.
67. Misell LM, Holochwost D, Boban D, Santi N, Shefi S, Hellerstein MK and **Turek PJ**. A stable isotope/mass spectrometric method for measuring the kinetics of human spermatogenesis in vivo. *J. Urol*. 175: 242-6, 2006.
68. Bailey J, Evans JP, Hardy M, Herr JC, Loveland K, Matsumoto A, Trasler J, **Turek PJ**, Vasquez-Levin M, Wang C; ASA 2005 Program Committee. Synopsis: 2005 annual meeting of the American Society of Andrology. *J Androl*. 2005 Nov-Dec;26: 678-88.
69. Shefi S, and **Turek PJ**. Definition and Current Evaluation of Subfertile Men. *Int Brazil J Urol*. 32: 385-397, 2006
70. Turek PJ. Practice Point Commentary: Colpi et al (2006) *BJU Int*. 97: 142-5. *Nat Clin Pract Urol*. 3:358-9, 2006
71. Shefi S, Raviv G, Eisenberg ML, Weissenberg R, Levron J, Jalalian L, **Turek PJ**, Madgar I. Posthumous sperm retrieval: analysis of time interval to harvest sperm. *Hum Reprod*. 21:2890-3, 2006
72. Sun F, Oliver-Bonet M, Liehr T, Starke H, **Turek PJ**, Ko E, Rademaker A, Martin RH. Analysis of achiasmate bivalents in pachytene cells from 10 normal men. *Hum Reprod*. 21:2335-9, 2006
73. Sun F, Oliver-Bonet M, Liehr T, Starke H, **Turek PJ**, Ko E, Rademaker A, Martin RH. Variation in MLH1 distribution in recombination maps for individual chromosomes from human males. *Hum Mol Genet*. 15:2376-91, 2006

74. Tung J, Rosen, MP, Nelson LM, **Turek PJ**, Witte, JS, Cramer DW, Cedars MI and Reijo Pera RA. Novel missense mutations of the Deleted-in-AZoSpermia-Like (DAZL) gene in infertile women and men. *Reprod Biol Endocrinol.* 2:40, 2006
75. Hsieh M, Meng M, **Turek PJ**. Markov modeling of vasectomy reversal and ART for infertility: How do obstructive interval and female partner age influence cost-effectiveness? *Fertil Steril.* 88: 640-6; 2007; Jun 1; [Epub].
76. Shefi S, Tarapore PE, Walsh TJ, Croughan C, **Turek PJ**. The reversibility of hyperthermia on semen quality in infertile men. *Int Braz J Urol.* 33:50-6; discussion 56-7, 2007.
77. Yang G, Walsh T, Shefi S, **Turek PJ**. The kinetics of the return of motile sperm to the ejaculate after vasectomy reversal. *J Urol.* 177: 2272-6, 2007.
78. Oliver-Bonet M, Campillo M, **Turek PJ**, Ko E, Martin R. Analysis of Replication Protein A (RPA) in human spermatogenesis. *Mol Hum Reprod.* 2007 Nov 2; [Epub ahead of print]
79. Walsh TJ, Dall'era MA, Croughan M, Carroll PR, **Turek PJ**. Cryptorchidism: prepubertal orchidopexy may prevent testis cancer *J Urol.* 178:1440-6; discussion 1446, 2007
80. **Turek PJ**. Does the Male Infertility Clinical Evaluation Adequately Assess Toxicological Exposures? ? *Fertil Steril.* 2008, 89(2 Suppl):e69
81. Walsh TJ, Seeger KT, **Turek PJ**. Spermatoceles in adults: when does size matter? *Arch Androl.* 2007, 53(6): 345-8.
82. Kaplan K, Brown M, Black LD Croughan M, and **Turek PJ**. Relative accuracy of a questionnaire compared with pedigree analysis for risk assessment in genetic infertility. *J Urol.* 2008 Apr;179(4):1499-505. Epub 2008 Mar 4.
83. Walsh TM, Davies BJ, Croughan MS, Carroll PR, and **Turek PJ**. Racial disparities among boys with testicular germ cell tumors in the United States. *J Urol.* 2008, 179(5):1961-5. Epub 2008 Mar 20.
84. Kerfoot BP and **Turek PJ**. What every graduating medical student should know about urology: the stakeholder viewpoint. *Urology.* 2008, 71(4):549-53.
85. DF Albertini, S Carson, LC. Giudice, JK Jain, M McDiarmid, ML Meistrich, J Mulvihill, KH Oktay, LR Schover, C Sklar, EH Stephen, M Toner, **PJ Turek**, TK Woodruff, [NICHD participants: A DeCherney, L DePaolo, FP Haseltine, CA Lamar, Y Maddox,]. Fertility Preservation Advisory Panel: meeting summary and future recommendations. *Fertil. Steril.* In press.
86. Wu A, Walsh TJ, Phonsombat S, Croughan MS and **Turek PJ**. Bilateral but not Unilateral Testicular Hypotrophy Predicts Severe Impairment of Semen Quality in Infertile Men with Varicoceles. *Urology.* 71: 1114-18, 2008
87. Walsh TW, Wu AK, Croughan MS, **Turek PJ**. Differences in the clinical characteristics of primarily and secondarily infertile men with varicocele. *Fertil Steril.* 2008 Mar 1. [Epub ahead of print]
88. Sun F, Mikhaail-Philips M, Oliver-Bonet M, Ko E, Rademaker A, **Turek P** and Martin RH. The relationship between meiotic recombination in human spermatocytes and aneuploidy in sperm. *Hum. Reprod.* Advance Access published online: May 15, 2008
90. Lian J, Ying Y, Oliver-Bonet M, Liehr T, Ko E, **Turek PJ**, Sun F, Martin RH. Variation in crossover interference levels on individual chromosomes from human males. *Hu Mol Gen.* Published online: May 23, 2008.
91. Eisenberg M, Walsh TJ, Garcia M, Shinohara K and **Turek PJ**. Ejaculatory Duct Manometry in Normal Men and in Patients with Ejaculatory Duct Obstruction. *J. Urol.* 180: 255-60, 2008. Epublised 20 May 2008.

92. Movassaghi M and **Turek PJ**. The cost effectiveness of treatments for male infertility. *Exp Rev Pharmacoeconomics Outcomes Res.* 8 (2); 197-205, 2008.
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95. Vaccari S, Hagerty J, Conaghan J and **Turek PJ**. Clinical Outcomes Using Ejaculated Sperm in Cryptozoospermic Men. American Urological Assoc. Annual Meeting. San Diego, CA. May 2012.
96. Gaur M, John CM, Ramathal C, Reijo-Pera R, and **Turek PJ**. Evidence of Spermatogenic Differentiation of Human Embryonic Stem Cells in an In Vitro Hollow Fiber Model. American Urological Assoc. Annual Meeting. Orlando, FL. May 2014.
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PAST SUPPORT

REAC Clough Fund Magnetic Resonance Spectroscopy in Normal and Varicocele-Associated Testicles	11/94-6/97	Effort 0% \$15,000
Major goal of this project was to assess differences in the metabolic rates of normal and varicocele-associated testes to determine how varicoceles affect testis function.		
Abbot Laboratories The Activity of the Vas Deferens and Seminal Vesicles after Systemic Administration of Sertindole and Mellaril	1/95-12/95	Effort 0% \$17,000
The major aim of this work was to investigate the neurophysiologic mechanism by which antipsychotic medication inhibits ejaculation in men.		
UCSF Young Faculty Development Award Oral Tolerance and the Alteration of the Immune Response in Mouse Experimental Orchitis	7/1/96-6/30/97	Effort 0% \$10,000
The major goal of this project was to develop a method and regimen of antigen feeding in mice that inhibits autoimmune orchitis, a common cause of male infertility.		
UCSF Student Research Committee 1997 Summer Fellowship Sperm Viability in the Reproductive Tract of Infertile Men. (Nathan Bachtell BS)	5/97-8/97 \$2,250	Effort 0%
The major goal of this project was to assess how sperm motility and viability change with progression through the ducts of the human male reproductive tract.		
The California Urology Foundation Y-Chromosome Deletion Analysis Of Single Sperm From Oligospermic Men	1/1/98-1/1/99	Effort 0% \$10,000
The major goal of this project is to develop molecular genetic methods to assess for the presence of Y chromosome microdeletions that are		

associated with defective spermatogenesis in the sperm of infertile men

Bank of America-Giannini Foundation Fellowship 6/98-6/99 Effort 0%
Y Chromosome Deletion Analysis of Single Sperm from Oligospermic Men (D. Nudell MD) \$30,000

The major goal of this project is to develop molecular genetic methods that would allow the evaluation of individual sperm chromosomes for genetic defects associated with infertility.

EPA Grant. "Semen Abnormalities in Patients Undergoing Radiation Therapy." 2/98-8/00 Effort 5%
(P.I. Paul Turek M.D., Co-investigator: Ana Maria Osorio M.D. M.P.H) \$100,000

The major goal of this project is to assess the acute effects of ionizing radiation on sperm chromosomal aneuploidy and DNA structure.

UCSF-Stanford Healthcare Enterprise Fund. 12/98-11/99 0% Effort
Program in the Genetics of Infertility (PROGENI) \$50,000

The major goal of this clinical and research program is to diagnose, counsel and treat genetic causes of infertility

Chancellor's Innovations in Basic Science Award 10/98-10/99 0% Effort
Meiotic Arrest and Defects in the Recombination and DNA Repair Pathways \$40,000
in Infertile Men. (Collaborator with P.I. Renee Reijo PhD)

This work seeks to investigate the molecular genetic relationship between human male infertility and defects in DNA repair pathways that have associations with the development of malignancy.

The California Urology Foundation 1/1/99-1/1/00 0% Effort
Defects in DNA Recombination and Repair Pathways in Infertile Men. \$5,000

The major goal of this project is to investigate the phenomenon of microsatellite instability and defective DNA recombination and its relationship to male infertility.

UC Clinical-laboratory Collaboration Grant 10/1/98-9/30/00
Identification and Characterization of Quantitative and Qualitative Defects in Expression of Effort 0%
Fertility Genes in Infertile Men Using cDNA Microarrays (co-PIs: R. Reijo PhD; \$175,000/yr
A. Wyrobek PhD and R.Pedersen PhD).

The major goal of this project is to construct cDNA microarrays to monitor the expression of male fertility genes in men with infertility.

The California Urology Foundation 2/1/01-2/1/02 0% effort
"The Genetics of Developing Male Germ Cells" (PI Turek) \$10,000

The major goals of this project are to characterize the gene expression profiles or "signatures" of various developing germ cells with cDNA microarray technology to better understand the process of spermatogenesis.

Lance Armstrong Foundation 10/1/01-9/30/04 5% effort
" Identification and Characterization of DNA Repair Genes in Normal and \$145,000

Cancerous Human Testes" (PI with co-investigator Reijo Pera PhD)

The major goal of this work is to demonstrate whether faulty DNA mismatch repair or related genetic pathways contributes to the development of testis cancer with cDNA microarrays

NIH RO1HD37095

"The DAZ Genes and Early Germ Cell Development in Humans" 7/15/99-6/30/04 5% effort
(Collaborator with P.I. Renee Reijo Ph.D) \$616,875

The major goal of this project is to identify and characterize several putative genes that may play a role in the process of meiosis, spermatogenesis and male infertility.

California Urology Foundation 2/1/05 – 1/30/06 \$7000
"Development and Manipulation of a Human Spermatogonial Stem Cell Line"
(Principal Investigator)

Major goals: To create and genetically manipulate a human spermatogonial stem cell line to differentiate it into meiotic male germ cells and sperm.

NICHD-P01 HD37074-01 Epidemiology of Infertility 7/1/99-6/30/06 5% effort
"Poor Obstetric and Pediatric Outcomes After Infertility" \$1,714,300
(Co-investigator with P.I. Mary Croughan Ph.D)

The major goal of this study is to assess the medical outcomes of children conceived through the use of assisted reproductive technologies for either male or female infertility

The California Urology Foundation (PI Turek) 3/6/06-4/6/07 Effort 0%
Male Infertility and the Risk for Cancer \$5,000

The major goal of this epidemiological study is to determine whether infertile men are at higher risk For developing colon, testis, skin and prostate cancers relative to fertile men.

NIH RFA-HD-05-040 (K-12) (PI Carroll) 7/1/06 – 6/30/11
Male Reproductive Health Research Career Development Program 5% Effort
(Program Director 2006-2008) \$370,371 dir./yr 1
\$2,033,231/5 yrs

The major goal of this project is to train new academic faculty in the specialty of male reproductive health at UCSF.

UCSF Instructional Grants Program (PI Turek) 7/1/05-6/30/07 \$5000 direct

A Formal Assessment of Storytelling on the Quality of Didactic Medical Education.

The goal of this pilot study is to investigate whether storytelling, when introduced into medical teaching, can improve student comprehension of educational material.

Neurodevelopmental Outcomes After Infertility (Co-investigator with PI: Croughan M)
2006-10 National Institute of Child Health and Human Development &
National Institute for Neurologic Disorders and Stroke 5% Effort
\$2,669,041 (direct)

The aim of this study is to determine whether children who were conceived by women who sought infertility treatment are at higher risk for adverse neurodevelopmental outcomes at 10-12 years of age as compared to naturally conceived children of fertile women.

California Urology Foundation (CUF) (PI Walsh, T.) 12/1/06-11/30/07
\$7,500
Intracytoplasmic Sperm Injection (ICSI) and the Risk of Adverse Childhood Outcomes
(Co-investigator)

The objective of this research is to determine whether children who are conceived with ICSI are at increased risk for adverse health outcomes, compared to children conceived both naturally and through other infertility treatments. We also seek to determine what types of male infertility confer the greatest risk for adverse health outcomes in children.

Mt. Zion Health Fund (PI: Walsh, T) 7/1/06-6/30/08
\$30,000
Male Infertility and the Risk of Cancer
Role: Co-PI

The study objective is to determine the relationship between prior male infertility and the temporal onset of prostate cancer by examining cohorts of both infertile and fertile men through medical record abstraction and interviews.

NIH RO1HD38987-1 4/01/01-3/31/07 5% effort
Genetic Analysis of Meiosis in Men and Risks Associated with ICSI \$1,000,000
(Collaborator with P.I. Reijo Pera Ph.D)

The major goals of this project are to determine if defects in DNA repair and recombination cause infertility in men, to identify and characterize genes that cause meiotic arrest in men, and to assess genetic risks in children conceived via intracytoplasmic sperm injection from men with meiotic arrest.

The Broad Medical Research Program 7/1/06-6/30/08 5% Effort
\$70,433/2 yrs
Genetic Damage to Sperm Following Treatment with Azathioprine/6-Mercaptopurine in Men with Inflammatory Bowel Disease (IBD) (Co-investigator with PI Mahadevan)

This study will determine whether men with IBD on 6MP/AZA have higher rates of genetic damage to sperm than men with IBD not on 6MP/AZA.

March of Dimes Birth Defects Foundation (PI Reijo Pera) 6/1/06 - 5/31/09 5% Effort
\$88,426 dir./yr 1
Molecular Genetic Analysis of Human Imprinting and Assisted Reproduction
(Co-investigator with PI Reijo Pera)

The major goal of this project is to determine if epigenetic errors of imprinting are common in preimplantation embryos that are cultured according to prevalent assisted reproduction techniques.

NIH U54 (PI Giudice, L) 04/01/2007-03/31/2012
\$1,052,213/Ann.direct
Origins and Biological Consequences of Human Infertility

The objectives of the proposed NIH U54 SCCPRIR are (a) discovery of mechanisms underlying early human development that are relevant to infertility and have the potential to translate into novel diagnostics and therapies for patients; (b) to train future leaders in reproductive biology and medical research, with an emphasis on infertility; and (c) to participate in the NIH SCCPRIR program, contributing to the science and training and mentoring of the next generation of reproductive researchers.

Project 1

Germ Cell Differentiation from Human Embryonic Stem Cells

Role: Co-Investigator

04/01/2007-03/31/2012.6 calendar
\$177,034/annual direct

The major goal of this grant is to dissect the function of the DAZL gene family in mouse and human germ cell development

Howard Hughes Medical Institute (HHMI) Medical Scholarship
(Awarded to R. Clavijo, BS; PI: Turek)

7/1/08-6/30/09

\$25,000

The Development and Characterization of the Pluripotency Potential of Human Spermatogonial Stem Cell Lines.

The major goal of this student project is the characterization of embryonic stem cell potential of adult human germ line stem cells for patient-specific cell therapy.

CIRM SPO# 041930

California Institute of Regenerative Medicine

8/1/08-7/31/11

Role: Co-investigator with PI: Reijo Pera

\$470,000 /annual

Derivation and comparative analysis of human pluripotent ESCs, iPSCs and SSCs: Convergence to an embryonic phenotype

The major goal of this study is to develop and compare the embryonic stem cell potential of induced human stem cells and human spermatogonial stem cells.

NIH-SBIR R43 ESO19824-01

9/1/11-8/31/13 \$250,000

Model of the Human Testis For Reproductive Toxicology (co-PI: P. Turek and C. John)

The goal of this small business grant is to establish a human, *in vitro*, model of the blood-testis-barrier using primary Sertoli cells and human embryonic stem cells to replicate spermatogenesis and to test the effects of toxins on this process.