

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

CITIZENSHIP: United States of America

EDUCATION: Manchester High School
 Connecticut
High School Diploma, Salutatorian 1978
 Yale College
 New Haven, Connecticut
Degree: Bachelor of Science (Biology) 1982
 Summa cum laude
 Stanford University School of Medicine
 Stanford, California
Degree: M.D. 1987

POST-GRADUATE TRAINING:

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| 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

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|-------------------------------------|---|-------------|
| 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 |

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

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|---|-------------------------|
| 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

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| 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 | 1994-2008 |
| Sperm Donor Program and Cryobank-UCSF | Director | 1994-2008 |
| Section of Urology, Veterans Administration Medical Center, San Francisco, CA | Assistant Chief | 1995-2006 |
| | Chief | 2000-2001 |
| 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, | Director | 2006-2008 |

ACADEMIC HONORS AND AWARDS:

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|---|------|
| Yale Club of Hartford Achievement Grant | 1980 |
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| 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" 2005-06 national listing | 2006 |
| 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 Network, Advisory Board | 2010 |
| American Board of Oriental Reproductive Medicine, Advisory Board | 2010 |
| NICHD Visioning Project, Reproductive Health | 2011 |

PROFESSIONAL ACTIVITY

SOCIETY MEMBERSHIP

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| American College of Surgeons | |
| American Urological Association | |
| Societe Internationale d'Urologie | |
| Chair, Infertility Postgraduate course | 2004-2007 |
| 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 | |

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| Pacific Coast Fertility Society Program Committee | 2008- |
| RESOLVE | |
| Northern California Urologic Society Vice President | 2001-3 |
| President | 2008- |
| Western Section, American Urological Association Board of Directors | 1995- 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- |
| Royal Society of Medicine, London, UK | 2008- |
| American Board of Oriental Reproductive Medicine | 2010- |

EDITORIAL BOARD MEMBERSHIP

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|--|-----------|
| Current Opinions in Urology (Andrology) | 1994 – |
| 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- |

AD HOC EDITORIAL ACTIVITY

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| Journal of Urology | 1995- |
| Urology | 1995- |
| Medical Practice and Principles | 1996- |
| Journal of Clinical Endocrinology and Metabolism | 1996- |
| Journal of Andrology | 1996- |
| The Western Journal of Medicine | 1997- |
| Fertility and Sterility | 1998- |
| European Journal of 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- |

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| 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- |

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- |
| Medical Board of California, Expert Reviewer | 2009- |
| American Urological Association | 1993- |
| Best Practice Panel, Reviewer | 2000 |
| Communications Office Expert | 2001 |
| 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- |
| 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- |
| 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 |
| RESOLVE | |
| Medical Advisory Board, N. Cal. Chapter | 1995-2000 |
| Association for Voluntary Surgical Contraception (AVSC International). | 1996- |
| Advisory Board Member | |
| World Health Organization Fellowship Supervisor | 1996-1998 |
| Yale Alumni Association | 1993- |
| Admissions Committee Interviewer | 2009- |

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| 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- |
| Open Path | |
| Medical Advisory Board | 2007- |
| Men's Health Network | |
| Medical Advisory Board | 2009- |
| Vassonics, Inc | |
| Chief Medical Officer | 2007 |
| 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- |

UNIVERSITY AND PUBLIC SERVICE

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| 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-Minihane 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 (COCO1) | 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, Vasopididymostomy. 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

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 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, PROGNI and the Genetics of Infertility. August 3, 1999

Interview, The Oakland Tribune, PROGNI 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 Prostheses. 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, PROGNI 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. Masterbation 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.

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- |

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

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, Spermogenesis; 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.

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

STUDENTS AND POSTDOCTORAL FELLOWS SUPERVISED

- 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 Visting 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. Associate 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. Medical Student, UC Davis
- 2004-2006 Shai Shefi MD, Assistant Professor of Urology, Chaim Sheba Medical Center, Tel-Hashomer, Israel
- Sum 2006 Katie Seeger, undergraduate student at UPenn. Pursuing PhD in Anthropolgy.
- 2006-2008 Thomas J. Walsh MD, MS. Andrology Fellow. Winner 2007 and 2008 ASA Cook Traveling Award
- 2007-2009 James F. Smith MD, Andrology Fellow. Winner 2008 ASA NIH Traveling Award;
- 2008-2010 Alan Shindel MD, Andrology Fellow, AFUD Scholar 2008-2010.
- 2007-2009 Raul Clavijo MD, Howard Hughes Research Institute Scholar, UCSF.
- 2008-2010 Alex Ignatov B.S. Turek Clinic Research Fellow
- Sum 2010 Monika Beliveau, LaSalle University; Clinical Research Intern
- 2007-2011 James Shima B.S., M.S. Doctoral Thesis Committee. Department of Bioengineering and Therapeutic Sciences, UCSF (Thesis Advisor: Kathleen Giacomini PhD)

PATENTS

- Submitted: RA Reijo Pera, PJ Turek, N Kossack. Pluripotent Human Spermatogonial Stem Cell-Derived Cells. October 2008.
- 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.
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ORIGINAL MANUSCRIPTS SUBMITTED

Abeyta M, Black L, Reijo Pera RA, and **Turek PJ**. Cytogenetic “hotspots” associated with male infertility. In preparation.

TEXT ILLUSTRATIONS

Zderic, SA and Hanno PM. Cutaneous vesicostomy and suprapubic urinary diversion. In: Mastery of Surgery: Urology. J.E. Fowler, Editor. Little, Brown and Co., Boston. 1992.

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PAST SUPPORT

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|---|----------------------|------------------------|
| 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 Y Chromosome Deletion Analysis of Single Sperm from Oligospermic Men (D. Nudell MD) | 6/98-6/99 | Effort 0% \$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." (P.I. Paul Turek M.D., Co-investigator: Ana Maria Osorio M.D. M.P.H) | 2/98-8/00 | Effort 5% \$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. Program in the Genetics of Infertility (PROGENI) | 12/98-11/99 | 0% Effort \$50,000 |

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

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

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| The California Urology Foundation Defects in DNA Recombination and Repair Pathways in Infertile Men. | 1/1/99-1/1/00 | 0% Effort \$5,000 |
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The major goal of this project is to investigate the phenomenon of microsatellite instability and defective DNA recombination and its relationship to male infertility.

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| UC Clinical-laboratory Collaboration Grant Identification and Characterization of Quantitative and Qualitative Defects in Expression of Fertility Genes in Infertile Men Using cDNA Microarrays (co-PIs: R. Reijo PhD; A. Wyrobek PhD and R.Pedersen PhD). | 10/1/98-9/30/00 | Effort 0% \$175,000/yr |
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The major goal of this project is to construct cDNA microarrays to monitor the expression of male fertility genes in men with infertility.

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

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| Lance Armstrong Foundation " Identification and Characterization of DNA Repair Genes in Normal and Cancerous Human Testes" (PI with co-investigator Reijo Pera PhD) | 10/1/01-9/30/04 | 5% effort \$145,000 |
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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 microrrays

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| NIH RO1HD37095 "The DAZ Genes and Early Germ Cell Development in Humans" (Collaborator with P.I. Renee Reijo Ph.D) | 7/15/99-6/30/04 | 5% effort \$616,875 |
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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.

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| California Urology Foundation "Development and Manipulation of a Human Spermatogonial Stem Cell Line" (Principal Investigator) | 2/1/05 – 1/30/06 | \$7000 |
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Major goals: To create and genetically manipulate a human spermatogonial stem cell line to differentiate it into meiotic male germ cells and sperm.

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

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.

CURRENT SUPPORT

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.

PENDING SUPPORT

NIH-U01 HD060483-01

Novel Device for Non-occlusive Male Contraception (PI Turek)

\$200,000/yr

The goal of this small business research grant is to develop a non-occlusive contraception device for men that is as effective as vasectomy but also reversible. Collaboration with Vassonic, Inc in San Carlos, CA.

NIH-U54

The Genomic Basis for Human Male Infertility (PI: A. Rajkovic)

Role: Co-investigator

The goal of this program project based at the University of Pittsburgh is to examine the "testome" of human genes that underlie currently unexplained cases of male infertility.

NIH-SBIR R43 ESO19824-01

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

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.