

## CURRICULUM VITAE

### **General Information:**

Peter N. Schlegel, MD  
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The New York Presbyterian Hospital-  
Weill Medical College of Cornell University  
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### **Education:**

B.A.	Hamilton College Clinton, New York	Chemistry & Mathematics	1979
M.D.	University of Massachusetts Medical School Worcester, Massachusetts		1983

### **Professional Experience:**

1983-4	Intern, General Surgery The Johns Hopkins Hospital
1984-5	Junior Assistant Resident, General Surgery The Johns Hopkins Hospital
1985-8	Junior Assistant Resident, Urology Assistant Resident, Urology Resident, Urology The Johns Hopkins Hospital Baltimore, Maryland
1989	Instructor in Urology The Johns Hopkins Hospital Baltimore, Maryland
1989-1991	Fellow-in-Residence The Population Council  Clinical Fellow The New York Hospital-Cornell Medical Center New York, New York
7/91-12/03	Staff Scientist
1/04 – present	Senior Scientist The Population Council

7/91-6/96 Assistant Professor of Surgery (Urology)  
7/96-5/04 Associate Professor of Urology (with Tenure, 2002)  
1/99-6/01 Vice-Chairman for Clinical Affairs, Department of Urology  
1/99-11/03 Co-Director, Center for Male Reproductive Medicine & Microsurgery,  
Cornell Institute for Reproductive Medicine  
Associate Professor of Reproductive Medicine  
7/01-11/03 Acting Chairman, Department of Urology  
Acting Urologist-in-Chief,  
1/03 – present Program Director, Urology Residency Training Program  
11/03 – present Chairman, Department of Urology  
Urologist-in-Chief, New York Presbyterian/Weill Cornell  
6/04 – present Professor of Urology,  
Professor Reproductive Medicine  
Weill Cornell Medical College  
New York, New York  
12/91- present Visiting Associate Physician  
Rockefeller University Hospital  
Rockefeller University  
New York, New York

**Professional Organizations:**

Diplomate, National Board of Medical Examiners  
Diplomate, American Board of Urology  
Member, American Society for Reproductive Medicine  
[ASRM Practice Committee 1999-2005, Program Committee 2003-2004, Board of Directors  
2004-2007; Finance Committee 2004-2007; Executive Committee 2006-7; Chair, Finance  
Committee, 2006-2007]  
Member, Society of Reproductive Surgeons (ASRM)  
[Assistant Secretary/Treasurer, 2003-2004, Secretary/Treasurer 2004-2005,  
Vice-President 2005-2006, President 2006-2007, immediate Past President 2007-8]  
Member, Society of Male Reproduction/Urology (ASRM)  
[Board of Directors; 1997-1999; Secretary/Treasurer: 2002-2003;  
President-Elect: 2003-2004; President: 2004-2005, Past-President 2005-6]  
Member, American Society of Andrology (Executive Council; 1995-98)  
Member, Society for Study of Reproduction  
Member, Society for Basic Urological Research  
Member, American Urological Association  
Secretary, Society for the Study of Male Reproduction (1999-2001)  
Vice-President, Society for the Study of Male Reproduction (2001-2002)  
President, Society for the Study of Male Reproduction (2002-2003)  
Research Council, Alternate (1999-2001; 2003-2005)  
Prize Essay Committee (2002-2003)  
Publications Committee (2005-2010)  
AUA Update Series Advisory Committee (2006-2009)  
Member, New York Section of AUA  
Member, Society of University Urologists  
Member, American Association of Genitourinary Surgeons (2004-)  
Member, Clinical Society of Genitourinary Surgeons (2005-)  
American Foundation for Urologic Disease/AUA Research Council  
Fellow, New York Academy of Medicine  
Advisory Committee, Urology Section, (1999-2003)

New York Clinical Society (Secretary, 2001-2002; Vice President 2002-2003, President 2003-4)  
New York Medical/Surgical Society (2007-)  
Urological Research Society (1990-)  
New York City Medical Reserve Corps (2006-)

**Board Certification:**

American Board of Urology (February, 1993)  
Recertification (2000); expires February 28, 2013

**Professional Honors/Review Groups:**

Member, Alpha Omega Alpha Honor Society  
Fellow, American Cancer Society, 1986-7  
NIH Endocrine Research Fellow (NIH# 2 T32 DK 07313-11), 1989-91  
Visiting Fellow, Royal College of Surgeons/England, 1993  
Scientific Reviewer, NIH/NIDDK Ad Hoc Study Section,  
HIV infection in genitourinary tract, 1996  
Scientific Reviewer, NIH/NICHD Special Emphasis Panel, Specialized Cooperative Centers Program in  
Reproduction Research (RFA HD 96-008), 1997  
Member, Scientific Advisory Committee, Cornell General Clinical Research Center  
American Board of Urology/AUA Examination Committee (Task force member, Chairman Task force  
B), 1997-2000  
American Board of Urology/AUA Examination Committee (Senior Consultant, Imaging), 2002-2006  
Task Force of Fertility Services in the Direct Care System (Department of Defense), 9/98  
Review Committee, Edwin Beer Program, New York Academy of Medicine, 1999-2004  
Scientific Reviewer, NIH/NICHD(Ad hoc), P01 Grant application, May 20-21, 1999  
Review Committee, Prize Essay Contests, American Urological Association, 1999-  
American Urological Association Best Practice Policy Committee (Male Infertility), 1999-2001  
Review Committee, Urology Fellowships/New Investigator awards, National Kidney Foundation of  
New York/New Jersey, 1999-2002  
Edwin Beer Review Committee, NY Academy of Medicine 2000-2005  
Chairman, Edwin Beer Review Committee 2001-2004  
NICHD/NIH, Population Research Review Committee, 2000-2003  
NICHD/NIH, Special review panel (Chairman), P01 Male infertility, 2006  
Reproduction, Andrology & Gynecology Subcommittee,  
NICHD Initial review group, NICHD/NIH 2003-2004  
American Foundation for Urologic Disease,  
Medical Advisory Council, 2000-2005  
Reproductive Health Council, 2000-2005  
Committee on Applicants (Manhattan District), American College of Surgeons 2000-  
Medical Advisory Board, Kidney & Urology Foundation, 2002-  
Ethicon Lecture (Plenary Session), ASRM Annual Meeting, 2003  
Board of Trustees, Kidney & Urology Foundation of America, 2002-  
Medical Advisory Board, National Kidney Foundation of Greater New York, 2005-  
Men's Health Task Force, The Hormone Foundation (The Endocrine Society), 2005-  
Johns Hopkins University Society of Scholars (Inducted 2007)  
Director of Infertility, SIO Healthcare Advisors (2008-)  
Advisor, Healthcommunities.com

**Editorial Boards:**

Co-Editor, Journal of Andrology (2002-2007)  
Section Editor, British Journal of Urology (BJU) International, (2002-)  
Current Opinion in Urology, Andrology Section (2005-)  
Timely Topics in Medicine – Urology (US) (2007-)  
Journal of Andrology (1995-8)  
Clinical Evidence (Section advisor, Men's Health), (2002-)  
Journal of Urology (2005-)  
Journal of Urology (Investigative Section; 1997-2006)  
Techniques in Urology (Section Editor) 1(1995-1999)  
Fertility Today, (2004-)  
FertiText  
Expert Review of Obstetrics & Gynecology, (2006-)  
Faculty of 1000, (2005-)  
Associate Editor, Weill Cornell Medical College Urology Reports (2007-)

**Licensure:**

New York State, 1989 (#177894-1)  
Certified Genetics Laboratory Director  
NY State DOH, Serial # CQP11477; CQ code: SCHLP1

**Awards:**

American Infertility Association Award for Special Contribution and Continued Devotion to Family Building, 1999  
Ambrose Reed AUA Socioeconomics Essay Contest, First Prize, 1998  
Best Assisted Reproductive Technology Video, American Society for Reproductive Medicine, 1997  
RESOLVE New York City Chapter Award, September, 1997  
Established Clinician Award, European Society for Human Reproduction and Embryology, Maastricht, The Netherlands, 1996  
Best Urology video, American Society for Reproductive Medicine Annual Meeting, 1995.  
Co-Author, Hamilton-Thorn Prize for best paper in the Journal of Andrology, 1994  
Male Reproduction/Urology prize paper, American Society for Reproductive Medicine Annual Meeting, 1995.  
Edwin Beer Program Recipient, The New York Academy of Medicine, 1996  
Who's Who [Strathmore's] (1998-)  
Listed, "How to find the Best Doctors" (NY Metro Area) Castle Connolly Medical Ltd.(1999-)  
Listed, "Best Doctors in New York," New York Magazine (2000-)  
Listed, "America's Top Doctors," Castle-Connolly Guide (2001-)  
Listed, "Guide to America's Top Physicians" (2003-)  
Listed, "America's Top Doctors for Cancer" (2005-)  
Marquis' Who's Who in the East (1996-)  
Marquis' Who's Who in Science and Engineering (2002-)  
Marquis' Who's Who in Medicine and Health Care (2002-)  
Marquis' Who's Who in America (2001-)  
Marquis' Who's Who in the World (2002-)  
Outstanding People of the 21<sup>st</sup> Century (2001-)  
21<sup>st</sup> Century Award for Achievement (International Biographical Centre)  
Hewlett-Packard Scholarship, 1975  
Clifford Williams Award, 1978  
Coleman Burke Fellowship Award, 1979

**Research Grants:**

Pending:

1 K12 HD053953-01  
Cornell Male Infertility Research Career Development Program  
PI: Peter N. Schlegel, M.D.  
Total award requested: \$2,000,000

Current::

Pharmacia Corporation (to NYPH)  
Exemestane in the Treatment of Male Infertility  
PI: Peter N Schlegel, M.D.  
Total award: \$140,000

Aromatase Inhibitor in Males with Adrenal Hyperplasia  
PI: K. Sarafoglu, M.D.  
NIH/NICHD: R03 HD046531-01  
Direct award: \$100,000

Past: Clinical Fellow, American Cancer Society, 1986-7 (Total award: \$22,000.)

Fellow, American Foundation for Urological Disease, 1989-91 (Total award: \$44,000.)

New Investigator Award, American Foundation for Urological Disease, 1993-5  
(Total award: \$ 100,000.)

Continuous administration of an LHRH agonist by hydrogel implant for prostate cancer, Principal Investigator. United States Agency for International Development, via International Committee for Contraceptive Research, The Population Council. 7/95 - 6/96 Grant #CB95.091A/ICCR (Total costs: \$21,076.)

Effect of constant infusion of MENT on LH and FSH pulsatility, Principal Investigator. United States Agency for International Development, via International Committee for Contraceptive Research, The Population Council. 7/95 - 6/96 Grant #CB95.090A/ICCR (Total costs: \$32,020.)

Effect of constant infusion of MENT on LH and FSH pulsatility, Principal Investigator. United States Agency for International Development, via International Committee for Contraceptive Research, The Population Council. 7/96 - 1/97 Grant #CB96.084A/ICCR (Total costs: \$20,700.)

General Clinical Research Center (Cornell): Principal Investigator,  
Role of abnormal GnRH pulsatility in idiopathic male infertility. (Estimated costs: \$75,000.)  
PHS Research Grant RR00047 from the General CRC Program of NIH; 9/91 - 8/96

Continuous administration of an LHRH agonist by hydrogel implant for prostate cancer, Principal Investigator. United States Agency for International Development, via International Committee for Contraceptive Research, The Population Council. 7/96 - 6/97 Grant #CB96.085A/ICCR (Total costs: \$19,218.)

Effect of reactive oxygen species on male infertility, Principal Investigator. New York Academy of Medicine. Dates of study: 7/96-6/98. (Total costs: \$75,000.)

EXISTING

NIH NICHD:  
R03 HD046531-01  
Aromatase Inhibitor in Males with Adrenal Hyperplasia

PI: Kyriakie Sarafoglou, M.D.>  
Co-investigator/mentor: Peter N. Schlegel, M.D.

Pending:

Astra-Zeneca Corporation  
Relationship of spermatogenesis to aromatase activity  
PI: Peter N. Schlegel, M.D.  
Total direct costs: \$50,000

1R01 HD042102-01A1  
Regulatory Mechanisms of Germ Cell Apoptosis  
Principal Investigator: Patricia L. Morris, Ph.D. (Population Council)  
Co-Investigator: Peter N. Schlegel

1R01 AG022542-01  
Aging and Commitment of Progenitors: Growth Regulation  
Principal Investigator: Patricia L. Morris, Ph.D. (Population Council)  
Co-Investigator: Peter N. Schlegel

R01 application (Response to RFA HD-02-026 Novel Approaches to Male Fertility Regulation)  
START proteins: Novel Sperm Targets for Contraception  
Principal Investigator: Patricia L. Morris, Ph.D. (Population Council)  
Co-Investigator: Peter N. Schlegel

R03 application  
IGF-1 Pathway and Prostate Cancer  
Principal Investigator: Julianne Imperato, M.D. (Cornell)  
Co-Investigator: Peter N. Schlegel

N01-CN-250000-39  
Phase I/II Clinical Trials of Cancer Chemopreventive Agents  
"Strang Cancer Chemoprevention Consortium for Phase I and Phase II Clinical Trials of Cancer  
Chemopreventive agents"  
PI: Michael P. Osborne, M.D.  
Co-Investigator: Peter N. Schlegel, M.D.

**Publications:**

1. Hnatowich DJ and Schlegel P: Albumin microspheres labelled with Ga-67 by chelation: Concise Communication. J. Nucl. Med., 22:623-6, 1981
2. Schlegel PN, MacGovern GJ and Bulkley GB: Septic thromboarteritis. Archives of Surgery, 121:974-5, 1986
3. Schlegel PN and Brendler CB: Defining appropriate timing of surgical antibiotic prophylaxis. Infections in Surgery, 6:187, 1987
4. Schlegel PN and Walsh PC: Preperitoneal hernia repair during radical pelvic surgery. Journal of Urology, 137:1180-3, 1987
5. Schlegel PN and Walsh PC: Neuroanatomical approach to radical cystectomy with preservation of sexual function. Journal of Urology, 138: 1402-1406, 1987

6. Walsh PC and Schlegel PN: Preservation of sexual function during radical pelvic surgery. *Annals of Surgery*, 208:145-153, 1988.
7. Schlegel PN, Wright W, Chang TSK: Characterization and localization of in vivo phospholipid methylation in the hamster testis. *Journal of Urology*, 141: 1483-1487, 1989.
8. Schlegel PN, Gearhart JP: Neuroanatomy of the pelvis in an infant with cloacal exstrophy: A detailed microdissection with histology. *Journal of Urology*, 141: 583-585, 1989.
9. Schlegel PN and Brendler CB: Management of urinary retention due to benign prostatic hyperplasia using luteinizing hormone-releasing hormone agonist. *Urology*, 34: 69-72, 1989.
10. Schlegel PN and Walsh PC: The use of the preperitoneal approach for the simultaneous repair of inguinal hernia during surgery on the bladder and prostate. *World Journal of Surgery* 13:555-559, 1989.
11. Leonard MP, Schlegel PN, Crovatto A, Gearhart JP: Burkitt's Lymphoma of the testis: An unusual scrotal mass in childhood. *Journal of Urology*, 143:104-106, 1990.
12. \*Walsh PC, Brendler CB, Marshall FF, Mostwin JI, Stutzman RE, Schlegel PN: Preservation of sexual function in men during radical pelvic surgery. *Maryland Medical Journal*, 39:389-393, 1990.
13. Brendler CB, Schlegel PN, Walsh PC: Preservation of sexual function following urethrectomy. *Journal of Urology*, 144:270-273, 1990.
14. Schlegel PN, Epstein JI, Fishman EK, Brendler CB: Rapidly progressive bilateral ureteral obstruction. *J Urol*. 144:957-60, 1990.
15. Schlegel PN, Chang TSK and Marshall FF: Antibiotics: Potential hazards to male fertility. *Fertility & Sterility*, 55:235-242, 1991.
16. Stahler MS, Schlegel P, Bardin CW, Silvestrini B, Cheng CY: Alpha-2 macroglobulin is not an acute phase protein in the rat testis. *Endocrinology* 128:2805-2814, 1991.
17. \*Schlegel PN: How to do a workup for male infertility. *Medical Aspects of Human Sexuality*, pp. 28-34, May, 1991.
18. \*Schlegel PN: New techniques in the treatment of male infertility. *Medical Aspects of Human Sexuality*, pp. 22-32, June, 1991.
19. Schlegel PN, Issa MM, Stutzman RE, Goldman SM: Gross hematuria and an upper pole renal filling defect. *Urology*, 37: 595-597, 1991.
20. Aulitzky WK, Schlegel PN, Wu D, Cheng CY, Li PS, Goldstein M, Reidenberg M, Bardin CW: Measurement of urinary clusterin as an index of nephrotoxicity. *Proceedings of the Society for Experimental Biology and Medicine*, 199: 93-96, 1992.
21. Schlegel P, Matthews G, Cichon Z, Aulitzky WK, Cheng CY, Chen C-L, Saso L, Goldstein M, Janne O, Bardin CW, Vaughan ED Jr: Clusterin production in the obstructed rabbit kidney: correlations with loss of renal function. *Journal of American Society of Nephrology*, 3:1163-1171, 1992.
22. Li PS, Schlegel PN, Goldstein M: Use of silicone medical grade tubing microsurgical vasovasostomy training. *Urology* 39:556-557, 1992.
23. \*Schlegel PN, Goldstein M: Vasectomy. *AUA Update Series*, Volume XI, Lesson 13, 1992.

24. Li PS, Li S, Schlegel PN, Goldstein M: External spermatic sheath injection for vasal nerve block. *Urology* 34:173-6, 1992.
25. Schlegel PN: Semen quality and chronic abacterial prostatitis. (Letter) *Urology* 39:395, 1992.
26. Brendler C, Schlegel PN, Dowd J, Kirby R, Zattoni F: Surgical treatment for benign prostatic hyperplasia. *Cancer* 70:371, 1992.
27. \*Schlegel PN, Goldstein M: Anatomical approach to varicocelectomy. *Seminars in Urology*, 10:242-247, 1992.
28. \*Schlegel PN, Goldstein M: No-scalpel vasectomy. *Seminars in Urology*, 10:252-256, 1992.
29. Ilaria G, Jacobs JL, Polsky B, Koll B, Baron P, MacLow C, Armstrong D, Schlegel PN: Detection of HIV-1 DNA sequences in pre-ejaculatory fluid. *Lancet* 340:1469, 1992.
30. Beck EM, Schlegel PN, Goldstein M: Intraoperative varicocele anatomy: a macroscopic and microscopic study. *J Urol* 148:1190-4, 1992.
31. Jow WW, Steckel J, Schlegel PN, Magid MS, Goldstein M: Motile sperm in human testis biopsy specimens. *J Androl* 14:194-198, 1993.
32. Schlegel PN, Goldstein M: Microsurgical vasoepididymostomy: refinements and results. *J Urol* 150:1165-1168, 1993.
33. Schlegel PN, Berkeley AS, Goldstein M, Alikani M, Adler A, Gilbert BR, Cohen J, Rosenwaks Z: Epididymal micropuncture with in vitro fertilization and oocyte micromanipulation for the treatment of unreconstructable obstructive azoospermia. *Fertil Steril* 61:895-901, 1994.
34. Jow WW, Schlegel PN, Cichon Z, Goldstein M, Bardin CW: Identification and localization of Cu<sup>++</sup>-Zn<sup>++</sup> superoxide dismutase gene expression in rat testicular development. *Journal of Andrology* 14:439-447, 1993.
35. Andersen B, Pearse RV, Schlegel PN, Cichon Z, Schonemann MD, Bardin CW, Rosenfeld MG: Sperm-1: A novel POU-domain gene transiently expressed immediately prior to meiosis in the male germ cell. *PNAS* 90:11084-11088, 1993.
36. Runic R, Bardin CW, Schlegel PN: Zone-specific regulation of clusterin expression in the rat epididymis. *Rec Prog Hormone Research* 50:379-385, 1994.
37. The sperm microaspiration retrieval techniques study group: Results in the United States with sperm microaspiration retrieval techniques and assisted reproductive technologies. *J Urol* 151:1255-1259, 1994.
38. \*Matthews GJ, Schlegel PN: Recent advances in vasectomy. *Adv Contr Deliv Syst* 10:143-151, 1994.
39. \*Schlegel PN: Micromanipulation of gametes for male factor infertility. *Urol Clin No Amer* 21:477-486, 1994.
40. \*Ilaria G, Schlegel PN: Detection of HIV-1 DNA in pre-ejaculate. *Infections in Urology* 7:174-5, 1994.
41. \*Schlegel PN: Sperm retrieval and IVF. *Current Opinion in Urology*. 4:323-8, 1994.

42. Schlegel PN, Cohen J, Goldstein M, Alikani M, Adler M, Gilbert BR, Rosenwaks Z: Cystic fibrosis gene mutations do not affect sperm function during in vitro fertilization with micromanipulation for men with bilateral congenital absence of vas deferens. *Fertil Steril* 64:421-6, 1995.
43. Schlegel PN, Palermo GD, Alikani M, Adler A, Reing AM, Cohen J, Rosenwaks Z: Micropuncture retrieval of epididymal sperm with IVF: Importance of in vitro micromanipulation techniques. *Urology* 46:238-241, 1995.
44. Matthews GJ, Schlegel PN, Goldstein M: Patency following microsurgical vasoepididymostomy and vasovasostomy: Temporal considerations. *J Urol* 154:2070-2073, 1995.
45. Su L-M, Goldstein M, Schlegel PN: The effect of varicocelectomy on serum testosterone levels in infertile men with varicoceles. *J. Urol.* 154:1752-55, 1995.
46. \*Schlegel PN: What are the existing and future therapeutic approaches for male infertility? When should IVF be used for male infertility? What is the role for psychological counseling for infertility? *Journal of Andrology*, (Suppl.) 52-55, 1995.
47. \*Schlegel PN: Examining the mechanics of ejaculation. *Contemporary Urology*: November, 1995, pp. 45-52.
48. \*Lipshultz LI, Oates R, Schlegel P, Witt M: Assisted reproduction technologies: Where does the urologist fit in? *Contemp Urol* 7:33, 1995.
49. Zini A, Schlegel PN: Catalase mRNA expression in the male rat reproductive tract. *J Andrology* 17:473-480, 1996.
50. Zini A, O'Bryan MK, Magid M, Schlegel PN: The immunohistochemical localization of endothelial nitric oxide synthase in human testis, epididymis and vas deferens suggests a possible role for nitric oxide in spermatogenesis, sperm maturation and programmed cell death. *Biol Reprod* 55:935-941, 1996.
51. Schlegel PN, Shin D, Goldstein M: Urogenital anomalies in men with congenital absence of the vas deferens. *J Urology* 155:1644-1648, 1996.
52. Matthews GJ, Goldstein M, Henry JM, Schlegel PN: Nonbacterial pyospermia: A consequence of clomiphene citrate therapy. *Int. J. Fertil.* 40:187-91, 1995.
53. Palermo GD, Schlegel PN, Colombero LT, Zaninovic N, Moy F, Rosenwaks Z: Aggressive sperm immobilization prior to intracytoplasmic sperm injection with immature spermatozoa improves fertilization and pregnancy rates. *Hum Reprod* 11:1023-1029, 1996.
54. Schlegel PN: Editorial: Vasectomy and extracorporeal shock wave lithotripsy hurt-Limit varicocelectomy procedures-To transurethral resection or not? *J Urol*, 155:1294-5, 1996.
55. Zini A, Mielnik A, Schlegel PN: POU domain gene expression during spermatogenesis. *World J Urology* 14:274-277, 1996.
56. Girardi SK, Schlegel PN: Microsurgical epididymal sperm aspiration. *Atlas Urol Clin No Amer*, 4:55-66, 1996.
57. Girardi SK, Schlegel PN: Microsurgical epididymal sperm aspiration: Review of techniques, preoperative considerations and results. *J Androl* 17:5-9, 1996.
58. \*Schlegel PN: Assisted reproductive technologies and sperm aspiration. *Pediatric Pulmonology*,

(Supplement 13) S5.3, p. 119, 1996.

59. O'Bryan MK, Zini A, Schlegel PN, Cheng CY. The cyclic expression of nitric oxide synthase (NOS) in the rat testis is suggestive of a role for NOS in spermatogenesis. In: *The Biology of Nitric Oxide*, Vol. 5, Eds. S. Moncada, J. Stamler, S. Gross, EA Higgs. Portland Press, Longdon, p. 241, 1996.
60. Zini A, O'Bryan MK, Magid M, Schlegel PN. The immunohistochemical localization of nitric oxide synthase (NOS) in the human male reproductive tract and in spermatozoa suggests a possible role for nitric oxide in spermatogenesis and sperm maturation, and an association with subfertility. In: *The Biology of Nitric Oxide*, Vol. 5, Eds. S. Moncada, J. Stamler, S. Gross, EA Higgs. Portland Press, Longdon, p. 19, 1996.
61. Schlegel PN: Editorial comment on "Use of a moderated international Internet information exchange in the study of male reproduction." *Urology* 48:6, 1996.
62. Schlegel PN: Is assisted reproduction the optimal treatment for varicocele-associated male infertility? A cost-effectiveness analysis. *Urology* 49:83-90, 1997.
63. Pavlovich CP, Schlegel PN: Fertility options after vasectomy: A cost-effectiveness analysis. *Fertil Steril* 67:133-141, 1997.
64. Schlegel PN, Palermo GD, Goldstein M, Menendez S, Zaninovic N, Veeck LL, Rosenwaks Z. Testicular sperm extraction with ICSI for non-obstructive azoospermia. *Urology* 49:435-440, 1997.
65. \*Schlegel PN, Girardi SK: Clinical review: In vitro fertilization for male factor infertility. *J Clin Endocrinol Metab* 82:709-716, 1997.
66. \*Sheynkin YR, Schlegel PN. Sperm retrieval with assisted reproduction. *Contemp Ob/Gyn*, 42:113-129, April 15, 1997.
67. Zini A, Schlegel PN: Identification and characterization of antioxidant enzyme mRNAs in the rat epididymis. *Int J Androl* 20:86-91, 1997.
68. Zini A, Schlegel PN: Cu/Zn superoxide dismutase, catalase and glutathione peroxidase mRNA expression in the rat testis after surgical cryptorchidism and efferent duct ligation. *J Urol* 158:659-663, 1997.
69. Schlegel PN, Su L-M. Physiologic consequences of testicular sperm extraction. *Hum Reprod* 12:1688-1692, 1997.
70. Girardi SK, Mielnik A, Schlegel PN. Submicroscopic deletions of the Y chromosome in infertile men. *Hum Reprod*, 12:1635-1641, 1997.
71. \*Sheynkin YR, Schlegel PN. Sperm retrieval for assisted reproductive technologies. *Contemp Urol* 9:21-36, 1997.
72. Schlegel PN, Pavlovich CP. Male infertility treatment: Cost-effectiveness analysis. *J Clin Outcome Mgmt* 4:27-31, 1997.
73. \*Schlegel PN. Round spermatid injection and embryonic development. *J Urol* 158:1662, 1997.
74. Shin D, Gilbert F, Goldstein M, Schlegel PN. Congenital absence of the vas deferens: Incomplete penetrance of cystic fibrosis gene mutations. *J Urol* 158: 1794-1799, 1997.

75. Zini A, Schlegel PN. Expression of glutathione peroxidases in the adult male rat reproductive tract. *Fertil Steril* 68:689-695, 1997.
76. \*Pavlovich CP, Schlegel PN. Cost-effectiveness of treatments for male infertility: A review. *Assist Reprod Rev*, 8:40-46, 1998.
77. Sheynkin YR, Hendin BN, Schlegel PN, Goldstein M. Microsurgical repair of iatrogenic injury to the vas deferens. *J Urol*, 159:139-141, 1998.
78. Palermo GD, Schlegel PN, Sills ES, Veeck LL, Zaninovic N, Menendez S, Rosenwaks Z. Births following testicular sperm used with intracytoplasmic sperm injection in non-mosaic Klinefelter's syndrome. *N Engl J Med* 338:588-560, 1998.
79. Zini A, O'Bryan MK, Israel L, Schlegel PN. Human sperm NADH and NADPH diaphorase cytochemistry: Correlation with sperm motility. *Urology*, 51:464-468 1998.
80. Shin D, Palermo GD, Goldstein M, Rosenwaks Z, Schlegel PN. Indications for corticosteroids prior to epididymal sperm retrieval. *Int J Fertil* 43:165-170, 1998.
81. Lemack GE, Uzzo RG, Schlegel PN, Goldstein M. Microsurgical repair of the adolescent varicocele. *J Urol* 160: 179-181, 1998.
82. Zini A, Abitbol J, Girardi SK, Schulsinger D, Goldstein M, Schlegel PN. Germ cell apoptosis and endothelial nitric oxide synthase (eNOS) expression following ischemia-reperfusion injury to the testis. *Arch Androl* 41:57-65, 1998.
83. Schlegel PN. Time to rethink the indiscriminate use of testicular biopsy for sperm retrieval? [letter]. *Hum Reprod* 13:505-506, 1998.
84. Brandell RA, Mielnik A, Liotta D, Ye Z, Veeck LL, Palermo GD, Schlegel PN. AZFb deletions predict the absence of sperm with testicular sperm extraction: Preliminary report of a prognostic genetic test. *Hum Reprod*, 13:2812-2815, 1998.
85. Sheynkin YR, Ye Z, Menendez, Liotta D, Veeck LL, Schlegel PN. Controlled comparison of percutaneous and microsurgical sperm retrieval in men with obstructive azoospermia. *Hum Reprod* 13:3086-3089, 1998.
86. Ostad M, Liotta D, Ye Z, Schlegel PN. Testicular sperm extraction (TESE): Results of a multi-biopsy approach with optimized tissue dispersion. *Urology*, 52:692-7, 1998.
87. O'Bryan MK, Zini A, Schlegel PN. Human sperm endothelial nitric oxide synthase expression: Correlation with sperm motility. *Fertil Steril* 70:1143-7, 1998.
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#### Abstracts and Posters:

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3. Schlegel PN and Chang TSK: In Vivo Methylation of Phospholipids and Proteins in the Mammalian Testis. Presented at the Annual Meeting of the Society for the Study of Reproduction, Urbana, Illinois, July 21-23, 1987.
4. Schlegel PN and Chang TSK: Temporal Aspects of In Vivo Phospholipid and Protein Methylation in the Hamster Testis. Presented at the Annual Meeting of the American Fertility Society, Reno, Nevada, September 28-October 1, 1987.

5. Schlegel PN and Walsh PC: Neuroanatomical Approach to Radical Cystoprostatectomy with Preservation of Sexual Function. Presented at the 1987 Annual meeting of the Mid-Atlantic Section of the American Urological Association, The Homestead, Hot Springs, Virginia, October 4-7, 1987
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7. Schlegel PN and Walsh PC: Radical Cystoprostatectomy with Preservation of Sexual Function: Neuroanatomical Considerations and Surgical Technique. Video tape presentation at the 83rd Annual Meeting of the American Urological Association, Boston, Massachusetts, June 3-7, 1988.
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9. Schlegel PN, Issa MM, Stutzman RE, Goldman SM: Computed tomography in the diagnosis and management of uric acid calculi. Abstract presented at the Mid-Atlantic Section, AUA, Annual meeting, Baltimore, Maryland, September 28-October 2, 1988.
10. Schlegel PN: Phospholipid methylation in the hamster testis. Reproductive biology symposium presented at the University of Virginia Health Sciences Center, Charlottesville, Virginia, October 24, 1988.
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14. Schlegel PN, Li PS, Aulitzky WK, Goldstein M, Cheng YC, Bardin CW: Testicular effects on clusterin in the rat caput epididymis. American Urological Association Annual Meeting, New Orleans, La., May 13-17, 1990.
15. Schlegel PN: Radical pelvic surgery with preservation of sexual function. Urology Grand Rounds, University of California at San Francisco, presented June 21, 1990.
16. Schlegel PN: Epididymal function. Urology grand rounds presentation at Salzburg General Hospital (Landeskranken), Salzburg, Austria, September 26, 1990.
17. Schlegel P, Matthews G, Aulitzky WK, Cheng CY, Liu C, Chen C-L, Saso L, Goldstein M, Janne O, Bardin CW, Vaughan ED, Jr: Clusterin production in the obstructed rabbit kidney: correlations with loss of renal function. Urology grand rounds at Vienna University Medical School, Vienna, Austria, October 1, 1990.
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139. Schlegel, PN: Genetic Abnormalities Impacting Male Reproduction. ASRM Pre-congress Course presented at ESHRE, Lyon, France, July 1-4, 2007.
140. Lee, R, Luke, B, Li, PS, Schattman, G, Goldstein, M, Schlegel, PN: Changes over time of Testicular Sperm Extraction (TESE) with IVF/ICSI for Treatment of Male Factor Infertility. Abstract presented at the ASRM, Washington, DC, October 13-17, 2007.
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#### Chapters/Books

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4. Schlegel PN and Goldstein M: Surgery of the epididymis, in Droller, M.J.: Surgical Management of Urologic Disease. Chapter 72, Mosby-Year Book, 1992.
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16. Schlegel PN: Surgical anatomy. In Goldstein, M.: Surgery of Male Infertility, W.B. Saunders, Co., Philadelphia, PA, Chapter 1, 1995.
17. Schlegel PN, and Goldstein M: Vasectomy. In Goldstein, M.: Surgery of Male Infertility, W.B. Saunders, Co., Philadelphia, PA, Chapter 4, 1995.
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22. Schlegel PN: Vasoepididymostomy, epididymal sperm retrieval and in vitro techniques for male factor infertility. Textbook of Operative Urology, FF Marshall, ed., W.B. Saunders, Co., Philadelphia, PA, Chapter 84, 1996.

23. Schlegel PN, Walsh PC: Preperitoneal hernia repair during urological surgery. Textbook of Operative Urology, FF Marshall, ed., W.B. Saunders, Co., Philadelphia, PA, Chapter 46, 1996.
24. Schlegel PN: Endoscopic management of infertility: Ejaculatory duct obstruction, in RE Sosa, A Jenkins, D Albala, AP Perlmutter, Textbook of Endourology, eds., W.B. Saunders, Co., Philadelphia, PA, Chapter 24, pp. 338-346, 1997.
25. Girardi SK, Schlegel PN: Micromanipulation of the male gamete, in Textbook of Andrology: Relevant Issues, WJG Hellstrom, ed., 1997.
26. Girardi SK, Schlegel PN: Intraoperative cryopreservation of sperm. Advances in Urology, B Lytton, WJ Catalona, LI Lipshultz, EJ McGuire, eds., Vol. 10:55-69, 1997.
27. Schlegel PN: Treatment of ejaculatory duct obstruction. In, LI Lipshultz, SS Howards, eds., Male Infertility, 4th edition, Chapter 21, pp. 385-394, 1997.
28. Schlegel PN and Shin D: Urogenital anomalies and genetic defects in men with bilateral congenital absence of the vas deferens. In Genetics of Male Infertility, Editions Medicales et Scientifique, eds C Barratt, C DeJonge, D Mortimer, J Parinaud. Sevres, France, pp. 98-110, 1997.
29. Schlegel PN and Chang TSK: Physiology of male reproduction: The testis, epididymis and ductus deferens, in PC Walsh, AB Retik, ED Vaughan, AJ Wein, eds.: Campbell's Urology, Seventh edition. W.B. Saunders Co., Philadelphia, PA, Chapter 42, pp. 1254-1286, 1998.
30. Schlegel PN: Sperm retrieval for assisted reproduction. In Atlas of Clinical Urology, eds ED Vaughan Jr., AP Perlmutter, Vol 1, Eds TF Lue, M Goldstein, Current Medicine, Philadelphia, PA, Chapter 14, pp. 14.1-14.12, 1999.
31. Schlegel PN, Su L-M, Li PS. Gonadal sperm retrieval: Potential for testicular damage in non-obstructive azoospermia. In Treatment of Infertility: The New Frontiers, eds M Filicori, C Flamigni, Communications Media for Education, Inc., Princeton Junction, NJ, ppl 383-392; 413-426, 1998.
32. Schlegel PN, Su L-M, Li PS. Pathophysiologic changes after testicular sperm extraction: Patterns and avoidance of testicular injury. In Male Sterility and Motility Disorders: Etiologic factors and treatment. Eds S Hamamah, F Olivennes, R Mieusset, R Frydman, Serono Symposia, USA, Springer-Verlag, New York, NY, pp. 243-252.
33. Brandell RA, Schlegel PN. Evaluation of Male Infertility. In Handbook of the Assisted Reproduction Laboratory. Eds BA Keel, JV May, CJ DeJonge. CRC Press, Boca Raton, Florida, Chapter 4, pp.77-98.
34. Schlegel PN, Girardi SK, Vaughan ED. Cancer of the Prostate. In: Surgical Oncology: Principles and Practice. Eds KI Blandy, JM Daly, CP Karakousis. McGraw-Hill, New York. Chapter 17D, pp. 813-838, 2001.
35. Brandell RA, Schlegel PN. Male infertility. In: Comprehensive Urology, eds RM Weiss, NJR George, PH O'Reilly, Mosby, London, Chapter 39, pp. 583-596, 2001.
36. Schlegel PN and Hardy M: Male Reproductive Physiology, in PC Walsh, AB Retik, ED Vaughan, AJ Wein, eds.: Campbell's Urology, Eighth edition. W.B. Saunders Co., Philadelphia, PA, Chapter 42, pp.1437-1474, 2002.
37. Schlegel PN, Kaufman, J. Surgical treatment of male infertility. In Kandeel, ed., Pathophysiology and Treatment of Male Sexual and Reproductive Function. Marcel-Dekker, New York, 2002.

38. Schlegel PN. Sperm retrieval techniques. In, Advances in Fertility and Sterility. Eds, JM Healy. Parthenon Publishing, London, UK, Chapter 37, pp. 371-382, 2001.
39. Schlegel PN. Recupero chirurgico degli spermatozoi: Che metodo utilizzare? In, L'infertilita maschile oggi Ed GM Colpi, Vol 1, pp. 53-65, 2001.
40. Schlegel PN, Hopps CV. Evaluation of the Male in Infertility. Gynecology & Obstetrics, Sciarra JJ, Ed., Lippincott, Williams & Wilkins, Chicago, IL. Chapter 63, Volume 5, 2002.
41. Hopps CV, Schlegel PN, Goldstein, M. A Practical Approach to Male Infertility. In, Principles of Gender-Specific Medicine, Elsevier, New York, Chapter 49, 2004.
42. Sandhu JS, Schlegel PN. Prostate Cancer. In Encyclopedia of Endocrine Diseases, Imperato J, Ed. Volume 4, pp. 125-130, 2004.
43. Hopps CV, Schlegel PN. Testis Biopsy and Testicular Sperm Extraction (TESE): Microscopic and Macroscopic Techniques. Glenn's Urologic Surgery, 6<sup>th</sup> Edition. Editor-in-Chief, Sam D. Graham, Jr., Lippincott, Williams & Wilkins, Philadelphia, PA. Section VI: Chapter 58; pp. 472-478, 2004.
44. Nelson K, Schlegel PN. Obstructive & Non-obstructive azoospermia. In Patton PE, Battaglia DE, Office Andrology, Humana Press, Totowa, NJ, Chapter 14, pp. 201-214, 2005.
45. Schlegel PN, Masson P, Lambert SM, Fisch H. Fertility and Aging Men: An Introduction to the Male Biological Clock. In P. Michael Conn (Ed), Handbook of Models for Human Aging. Elsevier/Academic Press, Burlington, MA, Chapter 51, pp. 631-640; 2006.
46. Schlegel PN. Male Infertility: Evaluation and Sperm Retrieval. In Clinical Obstetrics and Gynecology, Volume 49, Number 1, 55-72, 2006.
47. Schlegel PN. Clinical Evaluation of the Genetics of Male Infertility. In Douglas T. Carrell, Ed., The Genetics of Male Infertility, Humana Press, Totowa, NJ, Chapter 21, pp. 317-328, 2007.
48. Schlegel PN. Surgical Treatment of Male Infertility. In Fouad Kandeel, Ed., Male Reproductive Dysfunction, Informa Healthcare, Inc., New York, NY, Chapter 33, pp. 365-384, 2007.
49. Paduch DP, Schlegel PN. Testicular Failure. In Kyriakie Sarafoglou, Georg Hoffman, and Antoinette Moran, Eds, Essential Pediatric Endocrinology and Metabolism, McGraw Hill Publications, New York, NY, Dec, 2007.

#### **Films & Videotapes:**

1. Schlegel, P.N. and Walsh, P.C.: Radical cystoprostatectomy with preservation of sexual function: Neuroanatomical considerations and surgical technique. Videotape presented at the 1988 Annual Meeting of the American Urological Association, Boston, Massachusetts, June 3-7, 1988.
2. Matthews, G.J., Schlegel, P.N., Goldstein, M.: The microsurgical autogenous Sperm reservoir. Videotape presented at the 51st annual meeting of the American Society for Reproductive Medicine, Seattle, Washington, October 7-12, 1995. **Recipient, Best Urology Video Award.**
3. Schlegel PN, Li PS. Microsurgical epididymal sperm aspiration(MESA) with ICSI. Videotape (V-39) presented at the 92nd Annual Meeting of the American Urological Association, New Orleans, Louisiana, April 12-17, 1997.

4. Schlegel PN, Li PS. Microsurgical epididymal sperm aspiration(MESA) with ICSI. Videotape (VP-12) presented at the 53rd Annual Meeting of the American Society for Reproductive Medicine, Cincinnati, Ohio, October 18-22, 1997. **Recipient, Assisted Reproductive Technology Award.**
5. Schlegel PN, Li PS. Microdissection TESE: Sperm retrieval in non-obstructive azoospermia. Videotape (V-021) presented at the 54th Annual Meeting of the American Society of Reproductive Medicine & 16th World Congress on Fertility & Sterility, San Francisco, California, October 3-9, 1998.

**Published Reviews:**

1. Book review, Journal of Urology, March 1991: Review of unexplained infertility: Basic and clinical aspects. Edited by Giovanni Spera and Lucio Gnessi, Sero Symposia Publications, Volume 62, Raven Press, New York, NY, 1989.
2. Book review, Journal of Urology 155:797, February 1996: Infertility: Evaluation and Treatment. Edited by W.R. Keye, Jr., R.J. Chang, R.W. Rebar, M.R. Soules, W.B. Saunders, Co., Philadelphia, PA, 1995.

**Courses Taught:**

1. Goldstein, M., Schlegel, P.N., Gilbert, B.R., Cohen, J.: Controversies and cutting edge advances. Evaluation and management of the infertile man: 86th AUA Annual Meeting, June 1-6, 1991, Toronto, Ontario, Canada.
2. Laparoscopy in Urology, The New York Hospital-Cornell Medical Center, September 27-28, 1991.
3. Laparoscopy in Urology, The New York Hospital-Cornell Medical Center, November 8-9, 1991.
4. Laparoscopy in Urology, The New York Hospital-Cornell Medical Center, February 14-15, 1992.
5. Goldstein, M., Schlegel, P.N., Gilbert, B.R., Cohen, J.: Evaluation and management of the infertile man: 87th AUA Annual Meeting, Washington, DC, May 10-14, 1992.
6. Laparoscopy in Urology, The New York Hospital-Cornell Medical Center, September 27-28, 1992.
7. Technique of testis biopsy. AFS Postgraduate Course, November 1, 1992, at the 48th Annual meeting of the American Fertility Society, November 2-5, 1992, New Orleans, Louisiana.
8. Instructor & Lecturer, Microsurgical Andrology Workshop, January 29-30, 1993, Department of Urologie, Salzburg General Hospital, Salzburg, Austria.
9. Laparoscopy in Urology, The New York Hospital-Cornell Medical Center, April 3-4, 1993.
10. Goldstein, M., Schlegel, P.N., Sigman, M., Pryor, J.L.: Evaluation and management of the infertile man: 88th AUA Annual Meeting, San Antonio, TX, May 10-14, 1993.
11. Lipshultz, L.I., Schlegel, P.N., Howards, S.S., Witt, M.A.: New advances in the treatment of male infertility. 89th Annual Meeting, American Urological Association, San Francisco, California, May 17, 1994.
12. Schlegel PN: Role of Abnormal GnRH pulsatility in male factor infertility. Presentation for course on "Bench-top ideas to bed-side applications for male factor infertility" at the 50th annual meeting of the American Fertility Society, San Antonio, Texas, November 5-10, 1994.
13. Goldstein M, Pryor JL, Schlegel PN. What's New and What's Important. Postgraduate course

- presented at the 90th Annual meeting of the American Urological Association, Las Vegas, Nevada, April 23-28, 1995.
14. Microsurgery course. Lipshultz LI, Schlegel PN, McClure RD, Belker AM, Coburn M. AUA Surgical Learning Center, Houston, Texas, August 11-13, 1995.
  15. Jarow JP, Schlegel PN, Lipshultz LI, McClure RD. Controversies in andrology: What is the role of the andrologist in the era of IVF with micromanipulation? Male Reproduction/Urology Section Postgraduate Course. American Society for Reproductive Medicine, 1995 Annual Meeting, Seattle, Washington, October 7-8, 1995.
  16. Schlegel PN, Sosa RE, Perlmutter AP, Young GPH, Eid FE: Update in Urology; Caracas, Venezuela, November 3-4, 1995.
  17. Goldstein M, Pryor JL, Schlegel PN. Male Infertility: What's New and What's Important. Postgraduate course presented at the Annual Meeting of the American Urological Association, Orlando, Florida, May 4, 1996.
  18. Schlegel PN, Oates RD, Jarow JP, Anderson D, Skakkebaek NE. Course chairman: Male infertility in the year 2000: New techniques and state-of-the-art practice. American Society for Reproductive Medicine postgraduate course, Boston, Massachusetts, November 2-9, 1996.
  19. Schlegel PN. Operative demonstration: Microsurgical vasovasostomy. Post-graduate course on Operative Andrology, VIth International Congress of Andrology, Salzburg, Austria, May 25, 1997.
  20. Aitken JR, Davis N, Schlegel PN, Hellstrom WJG. "Update on current andrologic practice: Diagnosis, treatment and results. American Society for Reproductive Medicine postgraduate course, Cincinnati, Ohio, October 18-22, 1997.
  21. Goldstein M, Morgenthaler A, Pryor JL, Schlegel PN. Male Infertility: What's New and What's Important. Postgraduate course presented at the Annual Meeting of the American Urological Association, San Diego, California, June 1, 1998.
  22. "Non-obstructive azoospermia" Presented as part of the course, "Frontiers in Reproduction," (Gerald Schatten, Course Director), Marine Biological Laboratories, Woods Hole, Massachusetts, June 11, 1998.
  23. "Sperm retrieval techniques," (Faculty & Presenter) UCLA IVF Course, Santa Barbara, California, July 20-22, 1998.
  24. "Sperm retrieval techniques," (Faculty & Presenter) UCLA IVF Course, Santa Barbara, California, July 19-21, 1999.
  25. "Advances in male infertility," Post-graduate course; American Urological Association Meeting (Annual), Atlanta, Georgia, April 29-May 4, 2000.
  26. "Genetic evaluation before ICSI" "Sperm retrieval techniques" (Faculty/presenter) UCLA IVF Course, Santa Barbara, California, July 18-19, 2000.
  27. "Sperm retrieval techniques" Society for Reproductive Surgeons, Post-graduate Course, American Society of Reproductive Medicine, October 21, 2000.
  28. "Genetics of Male Infertility", Faculty, Post-Graduate Course, "Contemporary advances in male infertility" (Course director: Larry I. Lipshultz, M.D.), American Urological Association Annual

- Meeting, 2001.
29. "Medical Therapy", Faculty, Post-Graduate Course, "Contemporary advances in male infertility" (Course director: Larry I. Lipshultz, M.D.), American Urological Association Annual Meeting, 2001.
  30. Faculty, Post-Graduate Course, International Congress of Andrology, Montreal, Canada, June 14-15, 2001.
  31. Frontiers In Reproduction Symposium (NICHD/NIH), Boston, MA, June 29-30, 2001.
  32. "Sperm retrieval techniques", "Preoperative and Genetic Evaluation of Infertile Male", (Faculty/presenter), UCLA IVF Course, July, 2001.
  33. "Genetics of Male Infertility", Faculty, Post-Graduate Course, "Contemporary advances in male infertility" (Course director: Larry I. Lipshultz, M.D.), American Urological Association Annual Meeting, 2002.
  34. "Medical Therapy", Faculty, Post-Graduate Course (Course director: Larry I. Lipshultz, M.D.), American Urological Association Annual Meeting, 2001.
  35. "Treatment of Prostate Cancer", "Update your Medicine" June 25, 2002
  36. "New Advances in Treatment of Male Infertility", Lipshultz, Schlegel, Thomas, Turek , Postgraduate Course, AUA Annual Meeting Orlando, Florida, May, 2002
  37. "Sperm retrieval techniques", "Preoperative and Genetic Evaluation of Infertile Male", (Faculty/presenter), UCLA IVF Course, Santa Barbara, California, July, 2002.
  38. "Sperm retrieval techniques", "Preoperative and Genetic Evaluation of Infertile Male", (Faculty/presenter), UCLA IVF Course, Santa Barbara, California, July, 2003.
  39. "Sperm retrieval techniques", "Preoperative and Genetic Evaluation of Infertile Male", (Faculty/presenter), UCLA IVF Course, Santa Barbara, California, July, 2004.
  40. "Sperm retrieval techniques", "Preoperative and Genetic Evaluation of Infertile Male", (Faculty/presenter), SMRU Postgraduate course, Annual meeting of the American Society of Reproductive Medicine, October 16, 2004.
  41. "Sperm retrieval techniques", "Preoperative and Genetic Evaluation of Infertile Male", (Faculty/presenter), UCLA IVF Course, Santa Barbara, California, July, 2005.
  42. "Sperm retrieval techniques", "Preoperative and Genetic Evaluation of Infertile Male", (Faculty/presenter), UCLA IVF Course, Santa Barbara, California, July, 2006.
  43. "Laparoscopic suturing", Postgraduate Course 13, Society of Reproductive Surgeons, American Society of Reproductive Medicine, New Orleans, LA, October, 2006.
  44. "Vasovasostomy, vasoepididymostomy and sperm retrieval", Postgraduate Course, American Urological Association Annual Meeting, Anaheim, CA, May, 2007.
  45. "Male evaluation: A guidelines based and practical evaluation", "Sperm retrieval techniques", UCLA IVF Course, Santa Barbara, California, July, 2007.

**Visiting Fellow/Professorships:**

- 9/90 Visiting fellowship, September 23-26, 1990; Salzburg General Hospital, Salzburg, Austria
- 6/91 Visiting Professorship, June 15-19, 1991, Salzburg General Hospital, Salzburg, Austria
- 4/95 Visiting professorship, Departments of Urology & Obstetrics/Gynecology (School of Medicine), Division of Population Dynamics (School of Hygiene & Public Health), The Johns Hopkins Medical Institutions, Baltimore, Maryland, April 13, 1995.
- 11/95 Visiting professorship, Department of Obstetrics/Gynecology, Asaf Harofeh Hospital, Tel Aviv, Israel, November 26-30, 1995.
- 1/96 Visiting professorship, Department of Obstetrics/Gynecology, University of Pennsylvania Medical School, Philadelphia, Pennsylvania, January 24-25, 1996.
- 5/98 Visiting professorship, Department of Urology, McGill University, Montreal, Canada, May 5-6, 1998.
- 2/00 Visiting professorship, Oregon Health Sciences University, Oregon Urological Association Meeting, Bend, Oregon, February 2000.
- 10/01 Visiting Professor, New York Medical College, Valhalla, New York. October 1, 2001.
- 10/02 Visiting Professor, Invited Grand Rounds Presentation & Case discussions  
Downstate Medical College, Brooklyn, NY
- 10/02 Wolf Visiting Professor, Baylor College of Medicine, Houston, TX, October 25-26, 2002.
- 10/03 Visiting Professor, University of Texas-Houston, Department of Urology, October 3-4, 2003.
- 06/05 Visiting Professor, University of Medicine & Dentistry of New Jersey, June 24-25, 2005
- 10/05 Visiting Professor, Beth Israel Medical Center, Department Of Urology, October 27, 2005
- 06/06 Visiting Professor for Residents Graduation Day, NYU Downtown Hospital, Department of Obstetrics & Gynecology, June 23, 2006

**Invited Lectures:**

- 3/92 No-Scalpel Vasectomy, IVF with micropuncture of the epididymis. 22nd Annual Advances in Urology. The Cleveland Clinic Foundation, March 5-6, 1992, Cleveland Ohio.
- 5/92 Applications of assisted fertilization for male infertility. Urology Grand Rounds, May 22, 1992, St. Luke's-Roosevelt Hospital, New York, New York.
- 10/91 Invited participant, International Workshop on Prostatic Cancer and Benign Hypertrophy. October 26-30, 1991, Sea Island, Georgia.
- 10/92 Diagnosis of Male Infertility, Presented at the New York Section meeting of the American Urological Association, Berlin, Germany, October 17-24, 1992.
- 11/92 Surgical technique for epididymal sperm retrieval. Abstract presented as part of a symposium on Epididymal Sperm Aspiration combined with Assisted Reproductive Techniques at the 48th Annual

- meeting of the American Fertility Society, November 2-5, 1992, New Orleans, Louisiana.
- 11/92 Discussion of prize-winning paper on Male Reproduction/Urology, Plenary Session II at the 48th Annual meeting of the American Fertility Society, November 2-5, 1992, New Orleans, Louisiana.
- 11/92 What every man needs to know about Prostate Cancer. November 8, 1992, Uris Auditorium, Cornell Medical College, sponsored by The Strang Clinic.
- 10/93 Epididymal microaspiration procedures. Roundtable discussion. The American Fertility Society, 49th Annual Meeting, October 9-14, 1993, Montreal, Quebec.
- 11/93 Prostate Cancer. Symposium: Prostatic diseases for the non-urologist. The New York Hospital-Cornell Medical Center, November 15, 1993.
- 4/94 Male Infertility. Obstetrics & Gynecology Grand Rounds. St. Peter's Medical Center, New Brunswick, New Jersey, April 27, 1994.
- 4/94 Male Cancers. Presentation for New York Chapter of Association of Operating Room Nurses, Beth Israel Medical Center. April 30, 1994.
- 5/94 POU-domain gene expression in the mammalian testis. Invited presentation at the Society for Basic Urologic Research meeting, session on male reproduction/andrology, May 14, 1994.
- 8/94 Determinants of IVF success for male factor infertility. Invited presentation, NIH Conference on Male infertility & impotence, Charlottesville, Virginia, August 2-5, 1994.
- 10/94 Infertility Update, 1994. Invited presentation at the 92nd annual meeting of the New York Section of the American Urological Association, London, England, October 1-7, 1994.
- 10/94 Urology Grand Rounds, invited lecturer & visiting professorship, Beilinson Medical Center, Sackler University Medical College, Tel Aviv, Israel, October 19-23, 1994. (Demonstrating microsurgical procedures for epididymal & testicular sperm retrieval, reconstruction of male reproductive tract obstruction and associated male infertility operations in conjunction with IVF unit.)
- 10/94 Male Infertility: Update, 1994. Urology Grand Rounds, University of California at San Diego, October 29, 1994.
- 10/94 Congenital absence of the vas deferens: Etiology, associated conditions & fertility treatment. Combined San Diego Urological & Reproductive Endocrinology Society, San Diego, California, October 27, 1994.
- 10/94 Prostate cancer: Killer or innocent bystander?; Radical retropubic prostatectomy: Anatomical considerations & surgical technique; Ejaculatory duct obstruction; Varicocelelectomy: Optimal surgical approach. Invited Presentations to Venezuelan Urological Society, Margarita Island, Venezuela, October 13, 1994.
- 11/94 Is IVF effective for male factor infertility? Invited presentation for the section of Male Reproduction/Urology at the 50th annual meeting of the American Fertility Society, San Antonio, Texas, November 5-10, 1994.
- 3/95 New techniques for sperm retrieval. Greater New York Urological Symposium at the New York Academy of Medicine. March 4, 1995, New York, NY.
- 4/95 Congenital absence of the vas deferens (Department of Urology); Localization and characterization of free radical scavenger expression in the male reproductive tract (Combined Urology/Ob-Gyn/Pop

- Dynamics rounds), The Johns Hopkins Medical Institutions, Baltimore, Maryland, April 13, 1995.
- 5/95 Invited speaker, Israel Fertility Association, Annual Meeting, Tel Aviv, Israel, May 1-3, 1995.
- 12/95 Invited speaker, Third Annual Scientific Meeting, Federation of Asean Urological Association, Jakarta, Indonesia.
- 1/96 "Reactive Oxygen Species and Nitric Oxide Synthase", Obstetrics and Gynecology Research Conference, University of Pennsylvania, Philadelphia, PA.
- "Sperm Retrieval and IVF", Obstetrics-Gynecology Grand Rounds, University of Pennsylvania, Philadelphia, PA.
- 3/96 Invited speaker, INCIID (International Council on Infertility Information Dissemination) Conference, Orlando, FL, March 21-22, 1997.
- 3/96 Invited speaker, ESHRE Campus Symposium, Tel Aviv, Israel, March 27-28, 1996.
- 4/96 "Infertility," General Surgery Grand Rounds, North Shore University Hospital, Manhasset, New York, April 17, 1996.
- 5/96 Invited speaker, "Advances in Surgical Techniques for Prostate Cancer," Brachytherapy Conference, New York Hospital-Queens, Queens, NY.
- 10/96 Invited speaker, Austrian Conference for IVF and Assisted Reproduction, Telfs-Buchen, Austria.
- 10/96 Invited speaker, "Assisted reproductive therapies for men with cystic fibrosis," Cystic Fibrosis Meeting, Orlando, FL.
- 10/96 "Sperm retrieval and IVF," Urology Grand Rounds, SUNY Stony Brook, Stony Brook, New York, 10/18/96.
- 11/96 Invited speaker, "To cure or to treat: A urologist's perspective," Symposium for the Society for Reproductive Surgeons, presented at the 52nd Annual meeting of the American Society for Reproductive Medicine, Boston, Massachusetts, November 2-6, 1996.
- 12/96 "Prostate Cancer," Endocrinology Grand Rounds, Memorial Sloan-Kettering Hospital, New York, New York, December 11, 1996.
- 1/97 "Fertility in Men with Cystic Fibrosis", Cystic Fibrosis Center, College of Physicians & Surgeons of Columbia University, New York, NY.
- 2/97 "Advances in male infertility: MESA and TESE," presentation at The Rockefeller University, Symposium "Do you want to have a baby?" February 23, 1997.
- 3/97 "Management of men with non-obstructive azoospermia," New York Section, American Urological Association, Spring post-graduate seminar, The New York Academy of Medicine, New York, NY.
- 5/97 "Azoospermia", Urology Grand Rounds, Brookdale Hospital, Brooklyn, New York, May 21, 1997.
- 5/97 "Vas-vas anastomosis", Post-Graduate Course on Operative Andrology, VIth International Congress of Andrology, Salzburg, Austria, May 25, 1997.
- 6/97 "Intracytoplasmic sperm injection: Clinical aspects," NICHD/NABER Conference, June 19-20, 1997,

Bethesda, Maryland.

- 10/97 "Genetics and Male Infertility", "Preimplantation Genetic Diagnosis". Invited presentation, Italian Society of Andrology, Rome, Italy, October 17-18, 1997.
- 1/98 "Gonadal sperm retrieval: Potential for testicular damage in non-obstructive azoospermia," invited presentation, Treatment of Infertility: The New Frontiers, Boca Raton, Florida, January 22-24, 1998.
- 1/98 "Possible pathologic effects of gonadal sperm retrieval," invited presentation, Serono Symposium, Paris, France, January 30-31, 1998.
- 2/98 "Testicular sperm extraction: Physiologic and anatomical considerations," invited presentation, Bonn Interdisciplinary Symposium on Sterility, February 7, 1998, Bonn, Germany.
- 3/98 "Surgical procedures for male infertility", invited presentation, RESOLVE meeting, New York, NY, March 8, 1998.
- 3/98 "Is ICSI a Genetic Time Bomb?(Debate): No - It is safe and effective," invited presentation, Pharmacia & Upjohn Clinical Debate at the American Society of Andrology Annual Meeting, March 26-29, 1998, Long Beach, California.
- 5/98 "ROS Scavengers in the male reproductive tract," May 5; "Considerations for men with non-obstructive azoospermia," May 6, 1998; McGill University School of Medicine, Montreal, Canada.
- 5/98 "Radical prostatectomy - Surgical advances & morbidity with current techniques," invited presentation, "Advances in the Diagnosis and Management of Early Prostate Cancer, May 8, 1998, New York, NY.
- 6/98 "When to proceed to ICSI - Point/Counterpoint," invited plenary session presentation at the 93rd Annual Meeting of the American Urological Association, May 30 - June 4, 1998, San Diego, California.
- 7/98 "Techniques in sperm retrieval," UCLA Course in In Vitro Fertilization, July 22, 1998, Santa Barbara, California.
- 9/98 "Is microdissection the best way to retrieve sperm in non-obstructive azoospermia?" ESHRE Campus Symposium, Tel Aviv, Israel, September 9-10, 1998.
- 9/98 "Newer concepts in prostate cancer: localized disease & hormonal therapy," Urology Grand Rounds, Medical College of Georgia, Augusta, Georgia, September 23, 1998.
- 10/98 "Evaluation of the infertile male: What is important?", "Alternative sources for sperm retrieval, electroejaculation, epididymal and testicular sperm retrieval" Tutorial in Andrology, Sao Paulo, Brazil, October 21-22, 1998.
- 10/98 "Perspectives on male infertility," Invited presentation to the Paulista Section, Urological Society of Brasil, Sao Paulo, October 22, 1998.
- 2/99 Visiting Professor, Department of Urology, University of Maryland, Baltimore, Maryland, February 5-6, 1999.
- 2/99 "Contemporary Evaluation and Treatment of the Infertile Male," "Management of Men with Non-obstructive Azoospermia," Presentations at the Maryland Urologic Society Meeting, Baltimore, Maryland, February 6, 1999.
- 2/99 Program Chairman, Resident's Debate Night, The New York Section of the American Urological

- Association, The New York Academy of Medicine, New York, NY, February 10, 1999.
- 3/99 "Treatment of severe male infertility," Presentation at the Annual RESOLVE meeting, Grand Hyatt, New York, NY, March 7, 1999.
- 6/99 Invited speaker, Orange County Urological Society Meeting, Newport Beach, California, June 17, 1999.
- 7/99 Keynote speaker, Klinefelter's Syndrome and Associates Meeting, Baltimore, Maryland, July 1, 1999.
- 9/99 Keynote speaker, "MESA/TESE: Results and the future," German Society of Andrology, Giessen, Germany, September 3-4, 1999.
- 9/99 "Hormonal therapy: What's New & What's the Truth," Invited speaker, Us Too Chapter, New York, NY, September 16, 1999.
- 9/99 "Management of men with non-obstructive azoospermia," "Sperm retrieval techniques for non-obstructive azoospermia," Round-table discussion and presentation, Annual Meeting of the American Society for Reproductive Medicine, September 25-30, 1999.
- 10/99 "Prostate Cancer: Panel discussion," Annual Meeting of the New York Section of the American Urological Association, Dublin, Ireland, October 17-21, 1999.
- 10/99 "Male infertility: Panel discussion," Annual Meeting of the New York Section of the American Urological Association, Dublin, Ireland, October 17-21, 1999.
- 2/00 Moderator, Resident's Debate Meeting, New York Academy of Medicine, New York, NY.
- 2/00 "Placement of Histrelin implants." Histrelin Investigator's Meeting, Phoenix, Arizona.
- 2/00 "Cost-effectiveness of male infertility treatments." "Non-obstructive azoospermia," "Genetic evaluation of male infertility"; Invited speaker;, Oregon Urological Association Meeting, Bend, Oregon.
- 2/00 "Sperm retrieval for non-obstructive azoospermia," Invited speaker, Pacific Coast Fertility Society Meeting, Palm Springs, California.
- 8/00 "Sperm retrieval for assisted reproduction" invited presentation, Bethesda, Maryland.
- 11/00 Sperm retrieval techniques, invited presentation, Serono visiting professor symposium, Cornell-IVF group, New York, NY.
- 11/00 "Male infertility", invited presentation, ATIME (patient group), Brooklyn, NY.
- 3/01 Presenter, Moderator; Section of Urology Spring Symposium  
New York Academy of Medicine
- 4/01 Prevention & Early detection of Prostate Cancer"; Presentation, Strang Cancer Center  
New York, NY
- 9/01 "Y Chromosome evolution", Alpha 2001, Invited presenter, Serono Symposium  
New York, NY
- 10/01 "Varicocele in the Adolescent", Invited presenter, Mid-Atlantic Section of AUA, Annual Meeting

Hot Springs, WV

- 11/01 Invited speaker, Moderator; 30<sup>th</sup> World Congress on Fertility & Sterility  
International Federation of Fertility Societies  
Melbourne, Australia
- 9/02 Male factor infertility: Genetic Considerations, Invited presentation, Genetic Contributions in  
Reproductive Medicine: Challenges and Opportunities, Sao Paulo, Brazil, Sero Symposium.
- 10/02 "The Y chromosome", "Preoperative evaluation of azoospermic patients including genetic testing",  
"Sperm retrieval techniques", American Hospital of Istanbul 2002 Symposium, Istanbul, Turkey.
- 10/02 "Is the azoospermic man after chemotherapy sterile?", "Sperm retrieval techniques", invited speaker,  
American Society for Reproductive Medicine Annual Meeting, October 12-16, 2002, Seattle,  
Washington.
- 10/02 "Non-obstructive azoospermia – clinical review", "Genetic aspects of male infertility – effects on  
outcome", "PIASxalpha in spermatogenesis", invited lectures, Baylor College of Medicine, Houston,  
Texas.
- 10/02 Ethicon invited lecture (Plenary session), "Sperm retrieval in Non-obstructive azoospermia," American  
Society of Reproductive Medicine Annual Meeting, Seattle, Washington, October 13-16, 2002.
- 10/03 "TESE – Surgical Techniques", Reinier de Graaf Symposium, Academic Medical Center, Amsterdam,  
The Netherlands, October 8-9, 2003.
- 11/03 "Male infertility: new advances", Combined Urology and Ob/Gyn Grand Rounds, New York University  
School of Medicine, New York, NY, November 5, 2003.
- 9/04 "Functional testicular anatomy", 1<sup>st</sup> Annual International Symposium of Reproductive Medicine, Turkish  
Reproductive Medicine Society, Istanbul, Turkey, September 22-25, 2004.
- 9/04 "Sperm retrieval techniques", 1<sup>st</sup> Annual International Symposium of Reproductive Medicine, Turkish  
Reproductive Medicine Society, Istanbul, Turkey, September 22-25, 2004.
- 9/04 "Genetic evaluation of male infertility", 1<sup>st</sup> Annual International Symposium of Reproductive Medicine,  
Turkish Reproductive Medicine Society, Istanbul, Turkey, September 22-25, 2004.
- 10/04 "Treatment of men with azoospermia after chemotherapy", Forbeck Cancer Conference, Chatham, MA,  
October 1-2, 2004.
- 9/05 "Radiation and Surgical Therapy" Evolving Strategies in Prostate Cancer. New York, NY, September  
23-24, 2005
- 10/05 "Innovations in Urology 2005" The Borgata, Atlantic City, NJ, October 21, 2005
- 11/06 "Klinefelter Syndrome", Department of Pediatrics, Columbia Presbyterian Medical Center, November 21,  
2006.

**Broadcast Interviews:**

- 10/91 WCBS-TV, "Cocaine adherence to spermatozoa"

- 3/92 Syndicated radio interview (Cornell University), "Prostate Cancer."
- 9/94 WCBS-TV, "Treatment of localized prostate cancer."
- 1/95 WCBS-TV, NY 1 News, WNBC-TV, WABC-TV, UPN, Ch. 41, 47;  
CBS This Morning, The Today Show (NBC), Nightwatch (CBS)  
WCBS, WINS, WABC, BBC radio; "Post-mortem sperm retrieval"
- 2/95 Syndicated radio interview (American Cancer Society), "Testicular Cancer"
- 10/95 Wall Street Television (cable-syndicated), "Prevention of Prostate Cancer."
- 12/95 "Epididymal sperm retrieval", Indonesian National Television, December 10, 1995.
- 6/97 The Today Show, National Broadcasting Company.
- 4/98 CBS Morning News, "Testicular sperm retrieval for Klinefelter's Syndrome."
- 5/98 Body Human 2000, produced for CBS Television.
- 5/98 "Viagra", Fox Television.
- 2/04 "Advanced fertility treatments", The Today Show, NBC
- 2/05 "Sperm cryopreservation," The Today Show, NBC
- 4/05 "Urinary sepsis and the Pope", The Early Show, CBS
- 11/06 "Testosterone replacement", CBS Evening News with Katie Couric
- 12/07 "Giuliani: Prostate Cancer", WABC-TV

#### **Patents**

Isolated DNA molecule encoding Sprm-1 protein, U.S. Patent 5,612,220, March 18, 1997 (Bogi Andersen, Richard Pearse, Peter N. Schlegel, Michael G. Rosenfeld, C. Wayne Bardin.

MESA micropipet holder, U.S. Patent Number 08/801,800, Peter N. Schlegel, Philip S. Li, Marc Goldstein.

Force-measuring Silicon Microprobe and Uses Thereof, Abishek, Schlegel, Lal., under review.