

# LEONARD STEPHEN MARKS, MD.

(Current to October 2009)

## Personal History

Business Address: 924 Westwood Boulevard  
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Date of Birth: April 15, 1944  
Place of Birth: Houston, Texas

## Education

Undergraduate Education: Tulane University  
New Orleans, Louisiana  
Bachelor of Arts with Honors, 1965

Graduate Education University of Texas  
Galveston, Texas  
Doctor of Medicine (AOA), 1969

University of Texas  
Galveston, Texas  
Master of Arts (Physiology), 1969

Internship UCLA/Harbor General Hospital  
Torrance, California, 1969-1970  
Surgery

Residency UCLA/Harbor General Hospital  
Torrance, California, 1972-1973  
Surgery

Residency University of California

	Los Angeles, California, 1974-1978 Urology
Fellowship	Cedars-Sinai Medical Center Los Angeles, California, 1973-1974 Post-doctoral Research Scholar and Renal Hypertension Research Fellow Department of Surgery, UCLA
<b>State Licensure</b>	California, 1972 Certificate No. C34148
<b>Certifications</b>	Diplomate American Board of Urology Year of Election, 1980
<b>Professional</b>	
University Affiliation	University of California Los Angeles Department of Urology
Hospital Staff Appointments	University of California Hospital Los Angeles, California
Current Directorships/Advisory Boards	Gen-Probe, Inc., San Diego, CA (Prostate Cancer Advisory Board)  Light Sciences Oncol, Seattle, WA (Cancer Advisory Board)
Associate Editorship	Urology (The Gold Journal) Website Editor 1998 – present
Editorial Review Board	Urology Journal of Urology British Journal of Urology European Urology
Founding Director	Urological Sciences Research Foundation A California Non-Profit Corporation Los Angeles, California 1992-2008

Website Director

Urological Sciences Research Foundation

<http://www.usrf.org>

1996 – 2008

### **Industrial Consultancies** (1995 – present)

1. Pfizer, Inc., New York, NY
2. Merck Research Labs, Rahway, NJ
3. GlaxoSmithKline, Research Triangle Park, NC
4. Hybritech Division, Beckman Coulter Inc, San Diego, CA
5. Watson Pharmaceuticals, Salt Lake City, UT
6. Sanofi-Synthelabo, Inc., New York, NY
7. Gen-Probe, Inc., San Diego, CA
8. Solvay Pharmaceuticals, Marietta, GA
9. American Medical Systems, Minneapolis, MN
10. Light Sciences Oncology Seattle, WA

### **Honors and Special Awards**

#### **Educational Honors**

Alpha Omega Alpha, 1969

Bachelor of Arts with Honors, 1965

#### **Awards**

Clinical Research Prize, 1976

Grayson Carroll Essay Contest, American Urological Association:  
"Angiotensin Blockade in Renovascular Hypertension: A Controlled,  
Prospective Study"

Resident's Research Prize, 1976

Los Angeles Urological Society: "Angiotensin Blockade in the Rapid  
Detection of Renovascular Hypertension"

American Foundation for Urologic Disease Research Awards, 1993 & 1994

"Normalization of Serum PSA levels in Men with Benign Prostatic  
Hyperplasia: Role of Prostatic Epithelial Quantification"

CapCURE (Prostate Cancer Foundation) Research Award, 2000

"Biomarker Expression in Benign and Malignant Prostate Tissues of Native  
Japanese and Japanese-American Men"

Associate Member, 2000 – 2002

Early Detection Research Network, Division of Cancer Prevention, National  
Cancer Institute. "Free PSA Molecular Forms (BPSA & proPSA):  
BIOMARKER ROLE." In collaboration with the Brady Urological Institute of  
Johns Hopkins University.

## **Major Lectures, Exhibits and Presentations**

### **Lectures**

1. "Effect of Finasteride and Saw Palmetto Extracts in Men with Symptomatic Benign Prostatic Hyperplasia." 10th annual Congress, Egresados de Los Urologo de Centro Medico Nacional, Mexico City, D.F. January 1999
2. "Saw Palmetto: Myth and Science." G. Raworth Williams Lecture, Baylor University Hospital, Dallas, TX. March, 2001.
3. "Recent advances in PSA testing: development of molecular forms. Luminaries Dinner, Hybritech, Inc., Annual meeting, American Urological Association, 2001 (Orlando, FL) and 2002 (Chicago, IL).
4. "BPH and Alpha-blockers, 2004: Alfuzosin, a new treatment." Annual Meeting, Academy of Managed Care Pharmacy, San Francisco, CA, April, 2004.
5. "The race against time: Issues surrounding andropause." Annual Meeting, American Association of Clinical Chemistry, Los Angeles, CA, June, 2004.
6. "PCA3 Urine Test: Specificity and Improved Prostate Cell Recovery," L.S. Marks, A.W. Partin, S. Brentano, et al. GORDON CONFERENCE, New Frontiers in Cancer Detection and Diagnosis, Buellton, CA, Jan., 2005.
7. "5 alpha reductase inhibition: history and clinical importance." Annual Meeting, Canadian Urological Association, Ottawa, Canada, July, 2005.
8. "Dihydrotestosterone (DHT), The Other Androgen. History and Clinical Relevance Today," Urology Grand Rounds Presentation, Johns Hopkins University, Baltimore, MD, February 2, 2006.

### **Exhibit**

"Diagnosis and Treatment of Renin-Mediated Hypertension" Marks, L.S., Kaufman, J.J., and Maxwell, M.H. Presented at the American College of Surgeons, Dallas, October, 1977; American Urological Association, Washington, D.C., May, 1978; and American Medical Association, San Francisco, June, 1978.

## **Presentations**

1. "Ureteral obstruction in the patient with prostatic carcinoma." Marks LS and Gallo DA. Mid-Atlantic Section, American Urological Association, Williamsburg, VA, October 1971.
2. "Renal vein renin determinations in hyper-tension." Marks LS and Poutasse EF. Mid-Atlantic Section, American Urological Association, White Sulphur Springs, WV, October 1972.
3. "Renal hypertension: Use of renin determinations to predict operative results." Marks LS and Poutasse EF. Tidewater Urological Association, Portsmouth, VA, April 1972.
4. "Renin determinations in hypertension." Marks LS, Poutasse EF, and Brosman SA. Southern California Chapter, American College of Surgeons, Newport Beach, CA, January 1973.
5. "Management of renal artery disease and coexistent lesions." Marks LS and Kaufman JJ. Western Section, American Urological Association, San Francisco, CA, April 1974.
6. "Correctable renal hypertension: Surgical viewpoint." Marks LS. Medical Grand Rounds, Harbor General Hospital, Torrance, CA, August 1974.
7. "Advances in renal hypertension." Marks LS and Maxwell MH. Medical Grand Rounds, UCLA Medical Center, Los Angeles, CA, May 1975.
8. "Saralasin bolus test." Marks LS, Maxwell MH, and Kaufman JJ. "Renal vein renin determinations in hypertension: Critical analysis of a large series." American Urological Association, Miami, FL, May 1975.
9. Marks LS and Maxwell MH. Investigator's seminar, Council for High Blood Pressure Research, American Heart Association, Cleveland, OH, October 1975.
10. "Prostate scanning with gray scale ultrasound." Po JB, Sample WF, Marks LS, and Glennly RG. American Institute of Ultrasound in Medicine, Winston-Salem, NC, October 1975.
11. "Advances in the diagnosis and treatment of renovascular hypertension." Marks LS and Kaufman JJ. Surgical Grand Rounds, UCLA Medical Center, Los Angeles, CA, November 1975.

12. "Diagnosis and treatment of renovascular hypertension." Marks LS. Hypertension Grand Rounds, Los Angeles County/USC Medical Center, Los Angeles, CA, November 1975.
13. "New major criterion for significant renovascular hypertension during routine rapid sequence intravenous urogram." Po JB, Cahill PJ, Marks LS, Craven JD, and Sample WF. Radiological Society of North America, Chicago, IL, December 1975.
14. "Renovascular hypertension: Value of angiotensin blockade as a rapid diagnostic procedure." Marks LS, Maxwell MH, and Kaufman JJ. Clinical Society of Genito-Urinary Surgeons, Los Angeles, CA, January 1976.
15. "Value of saralasin test in detection of human renovascular hypertension." Marks LS, Maxwell MH, and Kaufman JJ. Western Section, American Urological Association, San Diego, CA, February 1976.
16. "Angiotensin blockade in renovascular hypertension: A controlled, prospective study." Marks LS, Maxwell MH, and Kaufman JJ. American Urological Association, Las Vegas, NV, May 1976. (Paper awarded the Clinical Research Prize, Grayson Carroll Essay Contest)
17. "Angiotensin blockade in renovascular hypertension: A controlled, prospective study." Marks LS, Maxwell MH, and Kaufman JJ. Medical Grand Rounds, Newcastle General Hospital, Newcastleupon-Tyne, England, June 1976; Also presented at: The London Hospital, London, England, June 1976.
18. "Angiotensin blockade as a rapid diagnostic test in hypertension." Marks LS, Maxwell MH, Waks U, and Kaufman JJ. European Dialysis and Transplant Association, Hamburg, Germany, June 1976.
19. "Angiotensin blockade in the rapid detection of renovascular hypertension." Marks LS. Los Angeles Urological Society, June 1976. (Paper awarded First Prize, Resident's competition)
20. "Renin, sodium, and response to saralasin in renovascular and essential hypertension." Maxwell MH, Marks LS, and Kaufman JJ. American Heart Association, Miami Beach, FL, October 1976.
21. "Fundamentals of renovascular hypertension." Marks LS. Urology Grand Rounds, White Memorial Medical Center, Los Angeles, CA, November 1976.

22. "Diagnosis and management of renovascular hypertension." Kaufman JJ, Straffon R and Marks LS. American Urological Association (Self-assessment program), Chicago, IL, April 1977.
23. "Der angiotension-blocker saralasin in der diagnostik des renovaskularen hoshdruckss." Kusters S and Marks LS. Tagung der Nordrhein-Westfalischen Geselleschaft fur Urologie, Bonn, West Germany, May 1977.
24. "Screening for renovascular hypertension." Marks LS. Consultative Line, American Urological Association, 1977.
25. "Tigerstedt and the discovery of renin." Marks LS. American Urological Association, Washington D.C., May 1978.
26. "Eighteen years experience with renovascular hypertension at U.C.L.A." Kaufman JJ, Marks LS, and Maxwell MH. American Urological Association, Washington, D.C., May 1978.
27. "Balloon dilation of prostate and other therapies for B.P.H." Marks LS. American Urological Association (Allied), Las Vegas, NV, April 1991.
28. "Value of balloon dilation in treatment of youthful patients with prostatism." Marks LS. Western Section, American Urological Association, Vancouver, B.C., August 1991.
29. "Balloon dilation of the prostate." Marks LS. Southern California Chapter, American College of Surgeons, Palm Springs, CA, January 1992.
30. "Balloon dilation of prostate has a role in the urologist's armamentarium." Goldenberg SL, Mosley W, and Marks LS. Western Section, American Urological Association, Kauai, HI, October 1992.
31. "Balloon dilatation of prostate: A 3-year combined center study of 249 patients." Moseley WG, Goldenberg L, and Marks LS. American Urological Association, San Antonio, TX, May 1993.
32. "Does VLAP Create a Prostatectomy?" Treiger B and Marks LS. Western Section Meeting, American Urological Association, Palm Springs, CA, November 1993.
33. "Morphometry of the prostate: Distribution of tissue components in hyperplastic glands." Marks LS, Treiger B, Dorey FJ, Fu YS, and deKernion JB. American Urological Association meeting, San Francisco, CA, May 1994.

34. "Classification of prostate aperture resulting from visual laser ablation (VLAP)." Marks LS, Treiger B, Dorey FJ, and Shery ED. American Urological Association meeting, San Francisco, CA, May 1994.
35. "Electro-vaporization vs. laser prostatectomy: Comparison of anatomic and clinical outcomes." Marks LS, Dorey FJ, Treiger B, and Patel A. American Urological Association meeting, Orlando, FL, May 1996.
36. "Prostate morphometry and response to finasteride vs. placebo in men with BPH." Marks LS, Dorey FJ, Fu YS, Shery ED, deKernion JB, Partin AW, Epstein JI, Gormley GJ, and Stoner E. American Urological Association meeting, Orlando, FL, May 1996.
37. "Pilot study of intravesical alpha-2b interferon for treatment of bladder carcinoma in situ following BCG failure." Williams RD, Gleason DM, Smith AY, et al. American Urological Association meeting, Orlando, FL, May 1996.
38. "Serum PSA levels following TURP in men with BPH." Franklin J, Marks LS, Dorey FJ, Shery ED, deKernion JB, Rhodes T, Partin AW, and Rittenhouse H. American Urological Association meeting, Orlando, FL, May 1996
39. "Computer-generated graphical presentations: Multimedia arrives in urology!" Marks LS, Penson D, Neilsen RT, Maller J, and deKernion JB. Society for Urology and Engineering, American Urological Association meeting, Orlando, Fla., May, 1996; Also presented at: Los Angeles Urological Society, April, 1996 Western Section Meeting, American Urological Association, San Diego, Ca., July, 1996 Mid-Atlantic Section Meeting, American Urological Association, Washington, D.C., October, 1996 North Central Section Meeting, American Urological Association, Tucson, AZ, October, 1996. \*\*\*\*\*
41. "Quantitation of tissue changes in prostate zones of men undergoing long-term finasteride therapy for BPH." Marks LS, Dorey FJ, Shery ED, deKernion JB, Partin AW, Subong ENP, Gormley GJ, and Stoner E. 1997 AUA meeting, New Orleans, LA.
42. <http://www.UROLOGY.com: Why a Website for the Gold Journal?> Marks LS, Santos PB, Maller J. 1998 Editorial Board Meeting, Urology, San Diego, CA; May 1998. \*\*\*\*\*
43. "Progressive contraction of epithelial cell mass during long-term finasteride therapy for benign prostatic hyperplasia." Marks LS, Dorey FJ, Macairan ML, Shery ED, Garris JB, Partin AW, Epstein JI, Gormley GJ, Stoner E. 1998 AUA Meeting, San Diego, CA.

44. "Clinical effects of saw palmetto extract in men with symptomatic BPH." Marks LS, Dorey FJ, Macairan ML, et al. Podium presentation, 1999 Annual Meeting, American Urological Association, Dallas TX.
45. "Prostate tissue effects of saw palmetto extract in men with symptomatic BPH." Epstein JI, Partin AW, Simon I, Kyprianou N, Hess DL, Prins G, Marks LS, et al. Poster presentation, 1999 Annual Meeting, American Urological Association, Dallas, TX.
46. "Effect of Finasteride and Saw Palmetto Extracts in Men with Symptomatic Benign Prostatic Hyperplasia." 10th annual Congress, Los Egresados de Urologo de Centro Medico Nacional; Mexico City, D.F. January, 1999\*\*\*\*\*
47. "Effects of a Highly Selective Alpha-1a Antagonist On Urinary Flow Rate in Men with Symptomatic BPH." Marks LS, Curtis SP, Narayan P, et al. Poster presentation, 2000 Annual Meeting, American Urological Association, Atlanta, GA.
48. "Finasteride vs Saw Palmetto vs Placebo in Men with Symptomatic BPH." Marks LS, Dorey FJ, Macairan ML, et al. Podium presentation, 2000 Annual Meeting, American Urological Association, Atlanta, GA.
49. "The proenzyme form of prostate-specific antigen (proPSA) is elevated in prostate cancer compared to benign transition zone prostate tissue." Mikolajczyk SD, Millar LS, Wang TJ, Rittenhouse HG, Marks LS, et al. Podium presentation, 2000 Annual Meeting, American Urological Association, Atlanta, GA.
50. "Neural network prediction of prostate tissue composition based on MRI Analysis: Pilot study." Simon I, Snow PB, Marks LS, et al. Poster presentation, 2000 Annual Meeting, American Urological Association, Atlanta, GA.
51. "Phytotherapy of Symptomatic BPH." Marks LS. Postgraduate seminar, 2000 Annual Meeting, American Urological Association, Atlanta, GA.
52. "Quantification of Prostatic Androgens. Part 1. Method Using Needle Biopsy Specimens." Hess DL, Marks LS, Dorey FJ, et al. Poster presentation, 2001 Annual Meeting, American Urological Association, Anaheim, CA.
53. "Quantification of Prostatic Androgens. Part 2. Effect of Saw Palmetto Herbal Blend." Marks LS, Hess DL, Dorey FJ, Partin AW, Epstein JI, et al. Poster presentation, 2001 Annual Meeting, American Urological Association, Anaheim, CA.
54. "Effects of Saw Palmetto Herbal Blend (SPHB) on Prostate Epithelial Nuclei in Men with Symptomatic BPH." Marks LS, Veltri RW, Partin AW, Epstein JI,

et al. Poster presentation, 2001 Annual Meeting, American Urological Association, Anaheim, CA.

55. "BPSA is a Potential Serum Marker for Benign Prostatic Hyperplasia (BPH)." Marks LS, Llanes AS, Mikolajczyk SD, Rittenhouse HG, Linton HJ, et al. Poster presentation, 2001 Annual Meeting, American Urological Association, Anaheim, CA.
56. "Phytotherapy of BPH (Saw Palmetto) and CaP (PC-SPES)." Marks LS. Post-graduate seminar, 2001 Annual Meeting, American Urological Association, Anaheim, CA.
57. "Biomarker Expression in Benign and Malignant Prostate Tissues of Native Japanese and Japanese-American Men." Marks LS, Heber D, Dorey FJ, Llanes AS, et al. Poster presentation, 2001 8<sup>th</sup> Annual CaPCURE Scientific Retreat, Lake Tahoe, CA.
58. "BPSA Localization within the Prostate." Leonard S Marks\*, Arlyn S Llanes, John W Fan, Culver City, CA, Stephen D Mikolajczyk, Lisa S Millar, Harry J Linton, William A Munroe, Harry G Rittenhouse, San Diego, CA, Lori J Sokoll, Daniel W Chan, Alan W Partin, Baltimore, MD. Presented at 97th Annual Meeting, American Urological Association, Orlando, FL, May 2002.
59. "ProPSA (pPSA) in relation to free PSA gives the best performance in detecting cancer in the 2.5-4.0 ng/mL total PSA range." L.J. Sokoll, A.W. Partin, S.D. Mikolajczyk, H.R. Rittenhouse, C.E. Evans, H.J. Linton, P. Mohr, L.S. Marks, G. Bartsch, D.W. Chan. Presented at 97th Annual Meeting, American Urological Association, Orlando, FL, May 2002.
60. "Prostate Cancer in Native Japanese and Japanese-American Men." L.S. Marks and M. Kojima. Presented at 9th Annual Meeting, CaPCURE, Washington, DC, September 2002.
61. "Prostate Cancer in Native Japanese and Japanese-American Men." L. Marks, M.Kojima, A.DeMarzo, F.Dorey, D.Heber, A. Partin, M. Putzi, D. Bostwick, J.Qian, R. Veltri, H. Fedor, S. Baker, A. Llanes, S. Henning. Presented at the Annual Urological Association Meeting, Chicago, May, 2003.
62. "Early use of dutasteride arrests prostate growth, improves clinical parameters and prevents complications in men with benign prostatic hyperplasia." P. Boyle, C.G. Roehrborn, L.S. Marks, J.C. Nickel. Presented at the Annual Urological Association Meeting, Chicago, May, 2003.
63. "Effect of maximal dihydrotestosterone suppression with dutasteride on sexual function and gynecomastia." C.Carson, R. Harkaway, L.S. Marks,

T.A. McNicholas. Presented at the Annual Urological Association Meeting, Chicago, May, 2003.

64. "Phytotherapy of BPH (saw palmetto) and CaP (PC-SPES)." AUA Post-graduate course, Complementary and Alternative Medicine, Mark Moyad, director. Presented at the Annual Urological Association Meeting, Chicago, May, 2003.
65. "Effects of Prostate Biopsy on PSA Isoforms in Men with BPH and Cancer." Leonard S. Marks, Steven D. Mikolajczyk, Harry G. Rittenhouse, H. Jay Linton, Cindy L. Evans, Maria Luz Macairan. Presented at the Annual Urological Association Meeting, San Francisco, May, 2004.
66. "Duration of dihydrotestosterone suppression following discontinuation of dutasteride: implications for missed doses." L.S. Marks, C.G. Roehrborn, R.L. Rittmaster. Presented at the Annual Urological Association Meeting, San Francisco, May, 2004.
67. "Long-term dutasteride therapy results in continued improvements in symptoms and peak urinary flow in men with symptomatic benign prostatic hyperplasia." C.G. Roehrborn, L.S. Marks, T. Fenter, J. Barkin, S. Freedman, J. Tuttle, M. Gittleman. Presented at the Annual Urological Association Meeting, San Francisco, May, 2004.
68. "Effects of Finasteride and Saw Palmetto on BPSA, ProPSA, and cPSA in Men with Benign Prostatic Hyperplasia." Lori J. Sokoll<sup>1</sup>, Leonard S. Marks<sup>2</sup>, Stephen D. Mikolajczyk<sup>3</sup>, Debra J. Bruzek<sup>1</sup>, Phaedre Mohr<sup>1</sup>, Leslie A. Mangold<sup>1</sup>, Harry G. Rittenhouse<sup>3</sup>, Daniel W. Chan<sup>1</sup>, Alan W. Partin<sup>1</sup>. Presented at the Annual Urological Association Meeting, San Francisco, May, 2004.
69. "PCA3 Urine Test: Specificity and Improved Prostate Cell Recovery," L.S. Marks, A.W. Partin, S. Brentano, et al. GORDON CONFERENCE, New Frontiers in Cancer Detection and Diagnosis, Buellton, CA, Jan., 2005.
70. "Transition Zone Hypothesis in Benign Prostatic Hyperplasia," L.S. Marks, C. Roehrborn, T. Wilson, et al. Presented at Annual Meeting of American Urological Association, San Antonio, TX, May, 2005.
71. "Ability of the Transition Zone Index to Predict Changes in Symptoms and Maximum Flow Rate in Men with BPH Treated with Placebo vs Dutasteride," L.S. Marks, C. Roehrborn, T. Wilson, et al. Presented at Annual Meeting of American Urological Association, San Antonio, TX, May, 2005.
72. "PC-SPES: What Did We Learn?," L.S. Marks. Presented at Annual Meeting of American Urological Association, San Antonio, TX, May, 2005.

73. "The Effects of Untreated Syphilis in the Negro Male, 1932—1972; A Closure Comes to the Tuskegee Study, 2004." S.Baker, O. Brawley, L.S. Marks. Presented at Annual Meeting of American Urological Association, San Antonio, TX, May, 2005.
74. "Effects of Testosterone Administration on Prostate Tissues in Men with ADAM Syndrome". LS Marks, N Mazer, DL Hess, PS Nelson, FJ Dorey, DG Bostwick, JI Epstein, RW Veltri, ML Macairan, AW Partin. Presented at the Annual Meeting of American Urological Association , Atlanta, Georgia, May 2006.
75. "Quatitative Assessment of Prostate Gene Expression Changes Following Testosterone Supplementation". EA Mostaghel, LS Marks, N Mazer, I Coleman, R Dumpit, PS Nelson. Presented at the Annual Meeting of American Urological Association , Atlanta, Georgia, May 2006.
76. "Testosterone and DHT Concentration in Prostate Tissues of African-American and Caucasian Men". LS Marks, DL Hess, FJ Dorey, ML Macairan. Presented at the Annual Meeting of American Urological Association , Atlanta, Georgia, May 2006.
77. "Specificity of the APTIMA PCA3 Assay for Prostate Cancer". LS Marks, SM Augin, IL Deras, S Brentano, A Blase, S Bodrug, HG Rittenhouse, J Groskopf, ML Macairan, TY Ko. Presented at the Annual Meeting of American Urological Association , Atlanta, Georgia, May 2006.
78. "Is PSA Influenced by Testosterone Levels in Aging Men?" LS Marks, CG Roehrborn, M Marberger, TH Wilson, RS Rittmaster. Presented at the Annual Meeting of American Urological Association , Orlando, Florida, May 2008.
79. "Serum Levels of BPSA Exhibit a Transient Dramatic "Spike" in the Early Weeks After Initiation of 5-Alpha Reductase Therapy (5ARIA). KM Slawin,LS Marks, KT McVary, DJ Lamb, ML Macairan, B Gago, DL Broyles, IA Mizrahi. Presented at the Annual Meeting of American Urological Association , Orlando, Florida, May 2008.
80. "Light Activated Drug Therapy for BPH". LS Marks, ML Macairan, L Keltner, J Christopherson, B Briggs, S Wang, T Madsen, J Liu, G Bouchard. Presented at the Annual Meeting of American Urological Association , Chicago, IL, April 2009.
81. " The Impact of Androgen Deficiency on Tight Junction Architecture and Prostate Inflammation". J Meng , E Mostaghel, LS Marks, and PS Nelson,

Presented at the Annual Meeting of American Urological Association ,  
Chicago, IL, April 2009.

## Research Grants

1. **Merck-434 Protocol #006-00** 1993-1995  
Safety and Efficacy of a Dual-5 Alpha Reductase Inhibitor  
Role : PI
2. **TAP-Study # M93-011** 1993-1994  
Lupron Reformulation in Treatment of Men with Advanced Prostate  
Cancer  
Role: PI
3. **Searle – 569-92-02-291** 1993-1993  
Efficacy and Safety of Omniflox as Prophylaxis of Urinary Infection  
following Prostate Biopsy  
Role: PI
4. **Merck – Proscar** 1993-1994  
Safety and Efficacy of Proscar in Minority Patients  
Role: PI
5. **Upjohn Pharmaceutical** 1993-1994  
Topical Minoxidil in Treatment of Male Erectile Dysfunction  
Role: PI
6. **Morphometry (Proscar)-Merck** 1994-1997  
Use of Histologic Morphometry to Quantify Prostate Epithelium and to  
Predict Finasteride Responsiveness in Men with Symptomatic Benign  
Prostatic Hyperplasia.  
Role: PI
7. **Syntex RS-15358** 1995-1995  
Safety and Efficacy of an Oral Agent in the Treatment of MED  
Role: PI
8. **Darifenacin (UK-88,525)-Pfizer #95-N-011** 1995-1995  
A Double-Blind, Comparative, Placebo Controlled Crossover Study of  
the Safety and Efficacy of Controlled-Release Darifenacin (UK-88,525)  
and Oxybutynin Tablets in the Treatment of Urge Incontinence.  
Role: PI
9. **Pfizer #148-101B** 1995-1995  
A Randomized, Double-Blind, Placebo Controlled, Parallel-Group, Fixed  
Dose, Multicenter, Long-Term Dose-Response Study to Assess the  
Efficacy and Safety of UK-92,480 Administered Prior to Sexual Activity to  
Male Patientst with Erectile Dysfunction.  
Role: PI
10. **Pfizer #148-101C** 1995-1996  
An Open, Non-Comparative Study to Assess the Long-Term Safety of  
Sildenafil in Patients with Erectile Dysfunction.  
Role: PI
11. **Cytogen-#356In21** 1996

- Study of Intravenously Administered In-Capromab Pendetide in the Evaluation of Patients with Prostate Cancer.  
Role: PI
12. **Morphometry Extension Study** 1996  
Merck Pharmaceuticals  
An Open-Label, Extension Study of the Use of Histologic Morphometry to Quantify Prostate Epithelium and to Predict Finasteride Responsiveness in Men with Symptomatic Benign Prostatic Hyperplasia.  
Role: PI
13. **Bladder Scan Study** 1996-1996  
Diagnostic Ultrasound  
Three-Dimensional Ultrasound Device for Rapid Determination of Bladder Volume  
Role: PI
14. **Pfizer #148-107** 1997-1997  
An Open, Non-Comparative Extension Study of Sildenafil in Patients with Erectile Dysfunction.  
Role: PI
15. **Saw Palmetto Study** 1997-1998  
Rehnborg Center for Human Nutrition - AMWAY  
Randomized, Double-Blind Evaluation of Clinical, Biochemical, Histologic, and Immunohistochemical Changes During Treatment with a Saw Palmetto-Based Proprietary Herbal Blend vs. Placebo  
Role: PI
16. **DUROS Leuprolide Implantable Device** 1997-1999  
Alza Corporation  
Safety and Efficacy Study of DUROS Leuprolide Implantable Therapeutic System in Patients with Prostate Cancer  
Role: PI
17. **GI198745** 1997-1997  
Glaxo Wellcome, Inc.  
A Randomized, Double-blind, Placebo-controlled, Two-year Parallel Group Study of the Efficacy and Safety of GI198745 0.5 mg in the Treatment and Prevention of Progression of Benign Prostatic Hyperplasia  
Role: PI
18. **Tolterodine** 1997-1997  
Pharmacia & Upjohn  
Dose Escalation Study with Tolterodine in Patients with Overactive Bladder. A single-blind study in patients with symptoms of overactive bladder including urinary urgency and frequency with or without urge incontinence.  
Role: PI
19. **hK2 Tissue Study** 1998  
Hybritech Division of Beckman Instruments  
Role: PI

20. **BladderManager Study** 1998  
 Diagnostic Ultrasound  
 PCI 500 Bladdermanager Autoscan Study  
 Role: PI
21. **MK-L-771,688 Uroflowmetry Study** 1998  
 Merck Research Labs  
 A Multicenter Uroflowmetry Study with L-771,688 and Tamsulosin in Patients with Clinical BPH  
 Role: PI
22. **Temporary Stent Study** 1998  
 Endocare  
 Safety and Efficacy Study -- Temporary Prostatic Urethral Stent for the Relief of Bladder Outlet Obstruction  
 Role: PI
23. **Tolterodine QD Study** 1998  
 Pharmacia  
 Clinical Efficacy and Tolerability/Safety of Tolterodine Prolonged Release Capules and Tolterodine Immediate Release Tablets vs Placebo. A Randomized, Double-blind, Placebo-controlled, Multinational Study in Patients with Symptoms of Overactive Bladder.  
 Role: PI
24. **MK- 011-02** 1999  
 Merck  
 A Dose-Range Finding, Double-Blind, Randomized, Placebo-Controlled, Multicenter, Active-Comparator Study to Determine the Effect of L-753099 in Postmenopausal Women with Predominantly Urge Urinary Incontinence.  
 Role: PI
25. **GI198745** 1999  
 Glaxo Wellcome, Inc.  
 An Open Label Study of the Efficacy and Safety of GI198745 0.5 mg in the Treatment and Prevention of Progression of Benign Prostatic Hyperplasia  
 Role: PI
26. **Hybritech** 2000  
 Effects of Clinical, Radiographic, and Histologic Characteristics on Serum and Tissue Levels of "B-PSA"  
 Role: PI
27. **Prostaject Ethanol Injection System - #AMS 002** 2000  
 American Medical Systems  
 Evaluaton of the Safety and Tolerability of Transurethral Dehydrated Alcohol Injection for the Treatment of Benign Prostatic Hyerplasia
28. **ALFIRST Protocol #L-8114** 2000  
 Sanofi-Synthelabo

- The Study of Onset of Action of Alfuzonsin 10mg Once Daily Formulation In Symptomatic Subjects With Benign Prostatic Hyperpalsia (Alpha-Blocker Responders)  
Role: PI
29. A comparative study of the incidence of Prostate Cancer among native Japanese and second generation Japanese Americans 2000  
CAPCURE  
Role: PI
30. **SP-668** 2001  
Schwarz Pharma  
Stratified, randomized, double-blind, placebo-controlled trial to investigate the efficacy and safety of three different dosages of sustained release Fesoterodine in subjects with overactive bladder showing either involuntary detrusor contractions or normal findings during the baseline urodynamic assessment  
Role: PI
31. **Tolterodine Prolonged Release** 2001  
Pharmacia  
A double-blind, placebo-controlled, randomized US study to evaluate the effect of tolterodine prolonged release on noturia in patients with symptoms of overactive bladder  
Role : PI
32. **SP668 Extension Study** 2002  
Schwarz Pharma  
Two phase extension trial of SP668 to investigate the safety and tolerability of sustained release fesoterodine in subjects with overactive bladder: a double-blind phase followed by an open-label extension phase  
Role: PI
33. **REDUCE** 2003  
Glaxo  
A randomized, double-blind, placebo-controlled, parallel-group study of the efficacy and safety of dutasteride 0.5 mg administered orally once daily for four years to reduce the risk of biopsy-detected prostate cancer  
Role: PI
34. **Testosterone Study** 2003-2005  
USRF  
Effects of testosterone administration on prostate tissues of men with ADAM (Androgen Deficiency in Aging Men)  
Role: PI
35. **Doluxetine Study** 2003  
Watson  
Efficacy and safety of Duloxetine compared with placebo in women with symptoms of mixed urinary incontinence  
Role: PI
36. **VIP Study** 2003

- Merck  
The effects of rofecoxib in reducing the risk of prostate cancer (ViP Study)  
Role: PI
37. **Tadalafil** 2003  
Eli Lilly  
An open-label study to evaluate the efficacy and safety of tadalafil administered "on demand" to men of various population with erectile dysfunction  
Role: PI
38. **G300203** 2003  
GTx  
A Randomized, Double-Blind, Placebo-Controlled, Multicenter Efficacy and Safety Study of Toremifene Citrate for the Prevention of Bone Fractures in Men with Prostate Cancer on Androgen Deprivation Therapy  
Role: PI
39. **PCA3FEAS01-03** 2004  
Gen-Probe  
Feasibility Clinical Sample Collection Protocol for PCA3 in the Detection of Prostate Cancer  
Role: PI
40. **DAR328A241** 2004  
Novartis  
A 12 Week, Randomized, Double-blind, Placebo-controlled, Parallel group, Multicenter Study to Evaluate the Efficacy of Darifenacin 15 mg OD on Increase in Warning Time from first Sensation of Urgency to Voiding in Patients with Overactive Bladder  
Role: PI
41. **Prostate Tissue Androgens in Caucasian and African American Men** 2004  
Glaxo  
Role: PI
42. **SI04009** 2005  
Watson  
A Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel Evaluation of the Efficacy and Safety of Silodosin in the Treatment of the Signs and Symptoms of Benign Prostatic Hyperplasia  
Role: PI
43. **SI04011** 2005  
Watson  
A Multicenter Open-Label Evaluation of the Safety of Silodosin in the Treatment of the Signs and Symptoms of Benign Prostatic Hyperplasia  
Role: PI
44. **Tolterodine ER 4** 2005  
Pfizer

- A Randomized, Double-Blind, Placebo-Controlled, Four Arm Study to Evaluate the Clinical Efficacy and Safety of Tolterodine ER 4 mg in Men who have frequency and urgency, with or without Urinary Urge incontinence with or without bladder outlet obstruction  
Role: PI
45. **TH-CR-203** 2005  
Threshold Pharma  
A Randomized, Double-blind, Placebo-controlled, Dose Comparison Study of the Efficacy and Safety of Lonidamine for the Treatment of Symptomatic Benign Prostatic Hyperplasia  
Role: PI
46. **IP157-001** 2006-2009  
Indevus  
A Two-arm, Open-Label, Randomized, Multicenter Pharmacokinetic and Long-Term Safety Study of Intramuscular Injections of 750 mg and 1000 mg on Undecanoate in Hypogonadal Men  
Role: PI
47. **Protocol 06-18** 2006  
Beckman Coulter  
Concentration of Prostate Disease Serum Markers in Response to 5-alpha Reductase Inhibitor Therapy  
Role: PI
48. **Gene Fusion Study** 2006  
Gen-Probe  
Diagnostic and Prognostic Utility of Prostate Cancer Specific Molecular Gene Rearrangements and other Markers  
Role: PI
49. **VICTOR Study** 2006  
Astellas  
A Randomized, Double-Blind Placebo Controlled, Parallel Group, Multicenter Safety and Efficacy, Phase 4 Study of Solifenacin Succinate (VESIcare) or Placebo in Combination with Tamsulosin HCL for the Treatment of Residual OAB symptoms of Urgency and Frequency in Men  
Role: PI
50. **YM 178** 2007  
Astellas  
A phase 2, Randomized, Double-blind, Parallel Group, Placebo-Controlled, MultiCenter Study to Evaluate the Urodynamics and Safety of YM178 in Men with Lower Urinary Tract Symptoms and Bladder Outlet Obstruction  
Role: PI
51. **BTX0621** 2007  
Allergan

Randomized Double-blind Placebo Controlled Trial of Intradetrusor Injections of Botox<sup>®</sup> for the Treatment of Urinary Incontinence Secondary to Benign Prostatic Obstruction – BTX0621

Role: PI

52. **ALFUS\_L\_03320** 2007  
Sanofi-Aventis  
Effects of Alfuzosin in Men Undergoing Transurethral Microwave Thermotherapy for BPH  
Role: PI
53. **LSO-OL008** 2008-ongoing  
LightSciences Oncology, Inc.  
A Phase 1 Study to Evaluate the Safety and Effectiveness of Using the Litx BPH System in Patients with Lower Urinary Tract Symptoms (LUTS) Due to Benign Prostatic Hyperplasia (BPH) Who are Candidates for Interventional Therapy.  
Role: PI
54. **FSI-003** 2009-ongoing  
Focus Surgery, Inc.  
A Multicenter Clinical Study of the Sonablate<sup>®</sup> 500 (SB500) for the Treatment of Locally Recurrent Prostate Cancer with HIFU  
Role: PI

## Peer-Reviewed Publications

1. Marks LS and Kolmen SN. Release of stored fibrinogen in histamine shock. Texas Reports in Biology and Medicine 25: 488, 1967.
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9. **Marks LS**, Smith RB, and Kaufman JJ. The renal hypertensive suspect with coexistent lesions. *Urology* 4: 140-4, 1974.
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12. **Marks LS** and Maxwell MH. Renal vein renin: Value and limitations in the prediction of operative results. *Urology Clinics of North America* 2: 311-25, 1975.
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Antigen Levels in Men with Benign Prostatic Hyperplasia. J Urol. 159: 449-53, 1998.

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