

## **CURRICULUM VITAE | ELLIOT B. LANDER, MD, FACS**

Certified Diplomate of the American Board of Urology

Fellow of the American College of Surgeons

Co-Medical Director the California Stem Cell Treatment Center®

Co-Founder and Co-Medical Director of Cell Surgical Network®

Co-Founder of Cells On Ice® Inc.

Founder of Nanologix Research Inc.

## **EDUCATION**

1978-1982 Bachelor's Degree, Occidental College, Los Angeles, California

1982-1986 Medical Doctor, University of California, Irvine

1986-1988 General Surgery Resident, U.C. Irvine Medical Center

1988-1992 Urology Resident, U.C Irvine Medical Center

## **PRIOR PRACTICE**

1992-1997 Partner Physician Kaiser Permanente Medical Group, Assistant Clinical Professor of Urology, UC Irvine College of Medicine

## **CURRENT PRACTICE**

Co-Founder and Co-Medical Director of California Stem Cell Treatment Center

Co-Founder and Co-Medical Director of Cell Surgical Network International Research Organization

Co-Founder of Cells On Ice Inc.

Private Solo Practice of Lander Regenerative Urology

Founder and Scientific Advisor for Nanologix Research Inc.

Personal Physician to President Gerald Ford 1999-2006

### **AREAS OF SPECIAL EMPHASIS**

Adult Stem Cell Treatment and Translational Research for Degenerative Diseases

Interstitial Cystitis Research

### **CURRENT STAFF PRIVILEGES**

Courtesy Staff at Eisenhower Memorial Hospital, Rancho Mirage, California.

### **INSTRUCTOR**

Honorary Faculty American Board of Interventional Pain Physicians -Regenerative Medicine  
Competency Examination 2016

### **MEMBERSHIPS**

American Urologic Association

Fellow of the American Board of Urology

Fellow of the American College of Surgeons

### **LEADERSHIP EXPERIENCE**

Past Chief of Urology at Eisenhower Medical Center, Rancho Mirage, California

Past Chief of Surgery at John F. Kennedy Hospital, Indio, California

Member of Regenerative Medicine Registry Meeting at the University of Wisconsin Medical  
College, Milwaukee, Wisconsin. August 10<sup>th</sup>, 2017

## **SPECIAL TRAINING**

Dr. Lander has done special training to certify in cosmetic genital reconstruction as well as having performed over 4000 pelvic floor reconstruction procedures for pelvic floor defects.

## **NON-PROFIT PARTICIPATION**

Founding Board member emeritus “BRIDGE FOR PELVIC PAIN.” A non-profit organization dedicated to advocacy, education and resources for patients with chronic pelvic pain. 2014-2017

International Cell Surgical Society- Board member 2014-2019

## **AWARDS AND HONORS**

- J. Gordon Hatfield Award in 1986. One award per year at U.C. Irvine for senior student demonstrating excellence in surgery.
- Graduated Magna Cum Laude from Occidental College with distinction in Biochemistry for honors thesis, 1982.
- Phi Beta Kappa in 1982.
- Carnation Honor Award (second highest academic merit award at Occidental college) 1978,1979,1980,1981.
- Statewide NASA Youth Science Congress award for Basic Science Research, 1978.
- National Science Foundation-Committee for Advanced Science Training Undergraduate Research Grant, 1979.
- Palm Springs Best Doctors: Dr. Elliot Lander has been named as one of the five “Top Docs” in Palm Springs for 2016. The article is featured in the July 2016 issue of Palm Springs Life magazine. Dr. Lander was also featured in Palm Springs Life magazine in 2011 as one of the top 5 of 77 of the Deserts best doctors
- Western Section American urologic Association Historical Essay Contest 4<sup>th</sup> Place- 2014

## **RESEARCH**

Principal Investigator: Additive Effects of Combination Therapy on Erectile Function with Tadalafil and Neo40, a Nitric Oxide Dietary Supplement.” Sponsor: NeoGenesis Labs. Houston, Texas. 2016

Principal Investigator: "Oncolytic Virus Combined with Autologous Stem Cells for Advanced Malignancy." Sponsor: StemImmune. San Diego California. 2016

## **BASIC SCIENCE/CLINICAL RESEARCH PROJECTS**

JUNE 1984-DECEMBER 1984

Basic science Research at University of California, Irvine Renal Transplantation Laboratory, Dr. Charles Hewitt. Studied the effects of Uremia in Rat model.

1981

Pharmacology Research, UCLA Medical School. Studied the effects of Beta Blockers on Vascular Resistance.

1980

Clinical Research at Cedars Sinai Medical Center (Department of Cardiac Rehabilitation) Los Angeles. Studied Myocardial Infarction and Subsequent Organic Brain Syndrome.

1979

Organic Chemistry Research at Occidental College, Los Angeles, Ca (under Dr. Frank DeHahn, PhD). Studied Friedel-Crafts Reaction.

2012

Medical Director and Principal Investigator of Cell Surgical Network for the IRB approved investigational study of stromal Vascular Fraction.

## **TEXTBOOKS**

Chapter 6: Adipose Cells or Stromal Vascular Fraction. In "Essentials of Regenerative Medicine." Manchikanti L, Editor. ASIPP Publishing, 2019.

Chapter 30: Interstitial Cystitis and Stem Cell Therapy. In "Essentials of Regenerative Medicine." Manchikanti L, Editor. ASIPP Publishing, 2019.

Co-author of "*The Stem Cell Revolution.*" By Mark Berman MD and Elliot Lander MD. 2015 Authorhouse Company

Authored "Forward" in "*Desmystifying Stem Cells- A Real Life Approach.*" By Bohdan Olesnicky MD and Naota Hashimoto DC.

Chapter 24: Detection of Unsuspected cognitive impairment in Cardiac rehabilitation patients. In "Post Myocardial Infraction Management and Rehabilitation." M. Dekker, Inc, 1983.

## PUBLICATIONS

- Berman M, **Lander E**, Grogan T, O'Brian W, Braslow J, Dowell S, Berman S. Prospective Study of autologous Adipose derived Stromal Vascular Fraction Containing Stem Cells for the Treatment of Knee osteoarthritis. *Int J Stem Cell Res Ther* 2019, 6:064
- **Lander E**, Berman M, See J. Personal cell therapy for interstitial cystitis with autologous stromal vascular fraction stem cells. *Ther Adv Urol.* 2019 Aug 17;11:1756287219868590.
- Minev B, **Lander E**, Feller J, Berman M, et. al., Szalay A. First-in-human study of TK-positive oncolytic vaccinia virus delivered by adipose stromal vascular fraction cells. *Journal of Translational Medicine*, volume 17, Article number: 271 (2019).
- Duma C, Berman M, **Lander E**, et. al. Human intracerebroventricular (ICV) injection of autologous, non-engineered, adipose-derived stromal vascular fraction (ADSVF) for neurodegenerative disorders: results of a 3-year phase 1 study of 113 injections in 31 patients. *Mol Biol Rep.* 2019 Jul 20.
- Draganov D, Santidrian A, Minev I, Nguyen D, Kilinc M, Petrov I, Vyalkova A, **Lander E**, Berman M, Minev B, Szalay A. "Delivery of Oncolytic Vaccinia Virus by Matched Allogeneic Stem Cells Overcomes Critical Innate and Adaptive Immune Barriers" *J. Transl Med* 2019 Mar 27;17(1):100.
- **Lander E**, Berman M. Autologous Stromal Vascular Fraction: A New Era of Personal Cell Therapy. *J Stem Cell Res Dev Ther* 2018 4:011.
- **Lander E**, Berman, M. Autologous Stromal Vascular Fraction Containing Stem Cells Combined with Low Intensity Shock Wave for the Treatment of Human Erectile Dysfunction. *J Stem Cell Res Ther* 2018, 8:9.

- Berman S, Uhlendorf T, Berman M, **Lander E**. Effective Treatment of Traumatic Brain Injury in Rowett Nude Rats with Stromal Vascular Fraction Transplantation. *Brain Sci* 2018, 8, 112.
- Kilinc O, Santidrian A, Minev I, Toth R, Draganov D, Nguyen D, **Lander E**, Berman M, Minev B, and Szalay A. The ratio of ADSCs to HSC-progenitors in adipose tissue derived SVF may provide the key to predict the outcome of stem-cell therapy. *Clin Trans Med* (2018) 7:5
- Berman S, Uhlendorf TL, Mills DK, **Lander EB**, Berman MH, Cohen RW. Validation of Acoustic Wave Induced Traumatic Brain Injury in Rats. *Brain Sci.* 2017 Jun 2;7(6).
- Berman M, **Lander E**. A Prospective Study of Adipose Derived Stromal Vascular Fraction Using a Specialized Surgical Processing system. *The American Journal Cosmetic Surgery.* Feb 2017 (1-14).
- **Lander EB**, Berman MH, See J. Stromal Vascular Fraction Cells: Applications in Chronic Pain. *Techniques in Regional Anesthesia and Pain Management.* 19 (2015) 10-13.
- **Lander EB**, Berman MH, See J. Stromal Vascular Fraction Combined with Shock Wave for the Treatment of Peyronie's Disease. *Plast Reconstr Surg Glob Open. Plast. Reconstr. Surg. Glob Open* 2016 Mar2:4(3)
- **Lander EB**, See JR. Intravesical instillation of pentosan polysulfate encapsulated in a liposome nanocarrier for interstitial cystitis. *Am J. Clin. Exp. Urol.* 2014;2(2):145-148
- **Lander EB**. Lee I. Giant Scrotal Lipomatosis. *J. Urol.* 156: 1773, 1996.
- **Lander EB**. Severe Hemoglobinuria Masquerading as gross hematuria following mitral valve replacement. *J. Urol.* 153: 1639, 1995.
- **Lander EB**, Shanberg AM, Tansey LA, Sawyer DE, Groncy PK, Finkelstein JZ. The use of continent diversion in the Management of rhabdomyosarcoma of the Prostate in childhood *J. Urol.* 147: 1602, 1992.
- **Lander EB**, Hewitt CW, Black KS Martin DC. Evaluation of rat Renal Allograft Model in comparison to man: A physiological perspective. *J. Urol.* 136:710, 1986.

- Vyden JK, Nagasawa K, Kanazawa M, Rose, Seino Y, Robertson M, **Lander EB**. Lack of effect of Cycloandelate in Peripheral Arterial disease. *Angiology* 35:1, 1984.
- DeHaan FP, Delker G, Covey W, Bellomo A, Brown J, Ferrara D, Haubrich R, **Lander EB**, MacArthur C. Electrophilic Aromatic Substitution. 6. A Kinetic Study of the Formylation of Aromatics with 1, 1-Dichloromethyl Methyl Ether in Nitromethane. *J. Org. Chem.*, 1984, 49 (21), pp 3963–3966
- Study of Salivary and Serum Antibody Response in Mice following oral challenge with S. Mutans. Winning paper at California statewide NASA Youth Science Congress. Los Angeles, California. 1978.

## **PATENTS**

US Patent No. 9,849,086. Dec 26<sup>th</sup>, 2017. Method and Composition for Treating Cystitis.

US Patent No. 10,300,017. May 28<sup>th</sup> 2019. Method and Composition for Treating Cystitis.

Shock wave for acoustic concussion in animals. Provisional Patent filed in November 2018.

## **ACADEMIC PRESENTATIONS**

*Transurethral Prostatectomy: Reduced Duration of Catheterization and Hospitalization* presented at the 67<sup>th</sup> Annual Meeting Western Section American Urological Association. Vancouver B.C. Canada on August 1<sup>st</sup>, 1991.

*Fat Derived Stem Cells* presented at 7th Annual National Society of Cosmetic Surgeons. Las Vegas, Nevada, 2012.

*Interstitial Cystitis: Current Concepts* presented at Grand Rounds event Annenberg Center for Health Sciences at Eisenhower Medical Center, Rancho Mirage, California on January 3, 2013.

*Adipose Derived Stem Cells and Urologic Regenerative Medicine* presented at American Academy of Cosmetic Surgery 29<sup>th</sup> Annual Scientific Meeting. Las Vegas, Nevada on January 16<sup>th</sup>, 2013.

*New Horizons in Regenerative Urology* presented at SELECTBIO Clinical Translation of Stem Cells Summit 2013. Rancho Mirage, California on January 23<sup>rd</sup>, 2013.

*Autologous Adipose Derived Stromal Vascular Fraction for the Treatment of Interstitial cystitis- A Pilot Study* presented at American Urologic Association Western Section 89<sup>th</sup> Annual Meeting. Monterey, California on November 3<sup>rd</sup>, 2013.

*Intravesical Pentosan Polysulfate Encapsulated in a Liposome Nanocarrier for Interstitial Cystitis.* Poster presented at American Urologic Association Western Section 89<sup>th</sup> Annual Meeting. Monterey, California on November 3<sup>rd</sup>, 2013.

*Autologous Adipose Derived Stromal Vascular Fraction Combined with Low Intensity Shock Wave Therapy for the Treatment of Peyronies Disease- A Pilot Study.* Poster presented at American Urologic Association Western Section 89<sup>th</sup> Annual Meeting. Monterey, California on November 3<sup>rd</sup>, 2013.

*Regenerative Urology* presented at 2013 World Stem Cell Summit, San Diego, California, on December 4<sup>th</sup>, 2013.

*Stromal Vascular Fraction Combined with Low Intensity Shock Wave Therapy for Peyronies Disease* presented at 2014 American Academy of Cosmetic Surgery 30<sup>th</sup> Annual Scientific Meeting. Hollywood, Florida, on January 14<sup>th</sup>, 2014.

*Regenerative Urology* presented at FATS Bangkok 2014. Visiting Surgeon at Ramathibodi Hospital in Bangkok, Thailand on April 18<sup>th</sup>, 2014.

*Regenerative Urology and ED* presented at SELECTBIO Clinical Translation of Stem Cells Summit 2014. Rancho Mirage, California on April 21<sup>st</sup>, 2014.



*The Role of the Surgeon in Regenerative Urology* at Anti-Aging Regenerative & Aesthetic Medicine 22<sup>nd</sup> Annual World Congress. Orlando, Florida on May 17<sup>th</sup>, 2014.

*The Role of The Physician in Regenerative Urology* presented at 2014 John C. Lincoln Health Network Medical Staff Retreat. Sedona, Arizona on June 9<sup>th</sup>, 2014.

*Innovations in Stem cell Treatments and Regenerative Medicine* presented at 2014-2015 World Medical tourism and global Healthcare Congress. Washington DC on September 21<sup>st</sup>, 2014.

*Adipose Derived Stem Cells and Extracorporeal Shock Wave Therapy For Erectile Dysfunction. Poster* presented at American Urologic Association Western Section 90<sup>th</sup> Annual Meeting. Maui, Hawaii on October 26<sup>th</sup>, 2014.

*Peyronies Disease.* Presented at the American Academy of Cosmetic Surgery's 31<sup>st</sup> Annual Scientific Meeting-Technological Advancements in Cosmetic Surgery. New Orleans, Louisiana on January 14<sup>th</sup>, 2015.

*Treatment of Peyronie's Disease with Autologous Adipose Derived Stromal Vascular Fraction Rich in Adult Stem Cells Combined with Penile Shock Wave Therapy.* Sexual Medicine Podium Session American Urologic Association Western Section 91<sup>st</sup> Annual Meeting. Indian wells, California on October 27<sup>th</sup>, 2015.

*Treatment of Interstitial Cystitis With Autologous Adipose Derived Stromal Vascular Fraction Rich in Adult Stem Cells and Growth Factors.* Pelvic Floor Podium Session American Urologic Association Western Section 91<sup>st</sup> Annual Meeting. Indian wells, California on October 27<sup>th</sup>, 2015.

Session chairman and speaker: Various Disease Classes Addressed by Adult Stem Cells— Therapies in Development and in the Clinical/Surgical Realm. Clinical and Surgical Translation of adult Stem Cells. San Diego, California on Nov 9<sup>th</sup> and 10<sup>th</sup>, 2015.

Session Moderator and Presenter: Stromal Vascular Fraction and Urology. Academy of Regenerative Practices, Fort Lauderdale, Florida on February 6<sup>th</sup>, 2016.

*Stromal Vascular Fraction and Pain.* Florida Society of Interventional Pain Physicians 2016 Annual Meeting. Orlando, Florida on May 21<sup>st</sup>, 2016.

*SVF Anatomy, Physiology, MOA, and Preparation.* Regenerative Medicine Review Course. American Society of Interventional Pain Physicians. Las Vegas, Nevada on August 19<sup>th</sup>, 2016.

*SVF Applications in Chronic pain and Other Disorders.* Regenerative Medicine Review Course. American Society of Interventional Pain Physicians. Las Vegas, Nevada on August 19<sup>th</sup>, 2016.

*Injection of Autologous Mesenchymal SVF into the Human Brain Ventricular System for Neurodegenerative Disorders: 2-Year Results of a Phase 1 study in 20 Patients.* Presented by Dr. Chris Duma (lead author) at the Congress of Neurological Surgeons CNS Annual meeting in San Diego, California on September 24<sup>th</sup>, 2016 and at Podium session of International Society for Cell Therapy ISCT North America Regional Meeting in Memphis Tennessee on Sept 30<sup>th</sup>, 2016.

*Stromal Vascular Fraction Cells: Evolution, Physiology, Indications, mechanism of Action and Preparation.* Essentials of Regenerative Medicine in Interventional Pain Management. Faculty Instructor for American Society of Interventional Pain Physicians. Memphis, Tennessee on March 3<sup>rd</sup> and 4<sup>th</sup>, 2017.

*New applications of Stem Cells in clinical Practice.* Sixth Annual EMA Primary Care Medical Education Conference "Innovations in Healthcare." Eisenhower Medical Center, Rancho Mirage, California on May 19<sup>th</sup>, 2017

*Stromal Vascular Fraction Cells: Evolution, Physiology, Indications, mechanism of Action and Preparation with Cadaver Training Course.* Essentials of Regenerative Medicine in Interventional Pain Management. Faculty Instructor for American Society of Interventional Pain Physicians. Orlando, Florida on June 16<sup>th</sup> and 17<sup>th</sup>, 2017.

*Investigational Use of Stromal Vascular Fraction For Lyme And Associated Diseases.* ILADS International Lyme And Associated Diseases Society 18<sup>th</sup> Annual Scientific Conference. Boston, Massachusetts on November 11<sup>th</sup>, 2017.

*Stromal Vascular Fraction SVF for the Treatment of Erectile Dysfunction- A Pilot Study.* IFATS 15<sup>th</sup> Annual International Federation for Adipose Therapeutics and Science Meeting. Miami, Florida on December 3<sup>rd</sup>, 2017.

*Stem Cells and Regenerative Medicine for Aging.* Arizona State University Sandra Day O'Connor College of Law. Third Annual Workshop on Healthspan Extension Policy and Regulation. Scottsdale Arizona on February 9<sup>th</sup>, 2018.

*Cell Surgical Network Experience.* Seeking Evidence for Efficacy of Stem Cell Interventions. Neuroethics Canada. University of British Columbia, Vancouver, Canada on Sept 26<sup>th</sup>, 2018.

*Treatment of Erectile Dysfunction with Shock Wave Therapy and Stem Cells.* International Association of Aesthetic Gynaecology and Sexual Wellbeing Second World Conference. The Royal Society of Medicine, London, England on October 13<sup>th</sup>, 2018.

*Regenerative medicine and Data Collection.* ARP 2019 Biohacking Conference and Scientific Seminar. Fort Lauderdale, Florida on March 23<sup>rd</sup>, 2019.

