

# Edward P. Miranda, MD FACS

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## EDUCATION

**Doctor of Medicine, Cornell University, New York, NY**  
1997 - 2001 – *Alpha Omega Alpha*

**Bachelor of Science, Cornell University, Ithaca, NY**  
1993 - 1997 – Biological Chemistry

## RESIDENCY

**Plastic and Reconstructive Surgery, University of California  
San Francisco, CA 2005-2007**

**General Surgery, University of California San Francisco,  
San Francisco, CA 2001- 2004**

## POST-DOCTORAL FELLOWSHIP

**Memorial Sloan-Kettering Cancer Center, New York, NY**  
Department of Structural Biology 2004 - 2005  
Dimitar B. Nikolov, Ph.D., mentor

## BOARD CERTIFICATION

**Diplomate, American Board of Plastic Surgery**

## DIRECTORSHIPS

**Medical Director**, Pacific Plastic Surgery Group, San Francisco, CA  
**Medical Director**, The Center for Complex Reconstruction, San  
Francisco, CA  
**Medical Director**, Hayes Valley Surgery Center, San Francisco, CA

## ACADEMIC APPOINTMENTS

**Attending Surgeon**, Department of Plastic Surgery California Pacific  
Medical Center, San Francisco, CA  
**Attending Plastic Surgeon**, Department of General Surgery St. Mary's  
Medical Center, San Francisco, CA  
**Staff Surgeon**, Department of Surgery, University of California San  
Francisco, CA (2007-2008)  
**Attending Surgeon**, Ming Lun Aesthetic Plastic Surgery Hospital,  
Shenzhen, China (2007-2008)  
**Chief Resident**, UCSF (2006-2007)  
**Resident in Plastic Surgery**, UCSF (2004-2007)  
**Fellow of the Sloan-Kettering Institute**, Memorial Sloan-Kettering  
Cancer Center (2004-2005)  
**Resident in General Surgery**, UCSF (2001-2004)

## RESEARCH

**Division of Plastic Surgery, California Pacific Medical Center**  
San Francisco, CA

- Investigation of reconstructive techniques for major soft tissue defects.
- Investigation of novel techniques for eyelid, periorbital and nasal aesthetic refinement.
- Investigated the use of muscle flaps for coverage of infected vascular prostheses and complex herniae.

**Department of Structural Biology, Memorial Sloan-Kettering  
Cancer Center**, New York, NY (2004 - 2005)

Dimitar B. Nikolov, Ph.D. – *Principal Investigator*

- Undertook X-ray crystallographic and biophysical studies of the

- Eph kinase receptor.
- Determined the structure of the angiogenic factor TIE-2 via X-ray crystallography and other biophysical techniques.

**Department of Surgery, University of California San Francisco**  
(2001-2004)

ÿ Investigated indications for staging imaging for patients with melanoma metastatic to sentinel lymph nodes.

ÿ Investigated the use of sentinel lymph node mapping and selective dissection after previous regional lymphadenectomy in patients with melanoma, squamous cell carcinoma and breast cancer.

**Department of Dermatology, Cornell University Medical College,**  
New York, NY (1997-2001)

Richard D. Granstein, M.D. - *Principal Investigator*

ÿ Investigated the physiologic and immunologic interactions between neuroactive peptides and epidermal cells.

ÿ Investigated the expression of neuropeptides and neuropeptide receptors by keratinocytes.

ÿ Evaluated immune function in transgenic mice over-expressing vIL-10.

**Department of Biological R & D, Estée Lauder Cos.,**  
Melville, NY (1995, 1997)

Edward Pelle, Ph.D. - *Principal Investigator*

ÿ Designed and executed a clinical study demonstrating the induction of oxidative damage in skin by cigarette smoke and the prevention of that injury by proprietary anti-oxidant preparations.

ÿ Investigated the regulation of ceramidase activity in human keratinocytes.

ÿ Performed ultra-structural analysis of alpha-hydroxy acid effects on cell-cell adhesion in living skin models.

**Department of Chemistry, Cornell University,**  
Ithaca, NY (1995-1997)

Tadhg P. Begley, Ph.D. - *Principal Investigator*

ÿ Designed and synthesized bi-labeled acetylcholine analogs for solid-state NMR analysis of the configuration of ligand binding to the active site of the nicotinic acetylcholine receptor.

**UNIVERSITY SERVICE**

**Faculty Preceptor, Longitudinal Care Program, UCSF, CA (2011-)**  
Faculty Preceptor for 3<sup>rd</sup> year medical students during their year long longitudinal care experience.

**Underrepresented in Medicine Program, UCSF, CA (2005-2009)**

ÿ Served as a mentor for the Underrepresented in Medicine program, a university sponsored service to attract and assist women and minorities in applying to medical school.

**Chief Residents' Advisory Committee, UCSF, CA (2006-2007)**

ÿ Special Advisory board to the Dean of the School of Medicine

**University Assembly, Cornell University, Ithaca, NY (1995-1996)**

ÿ Elected representative to the University Assembly that oversaw the Faculty Senate, Student Assembly and Employee Assembly

**Student Assembly, Cornell University, Ithaca, NY (1995-1996)**

ÿ Elected representative to the Student Assembly that oversaw

student relations and self-governance.

ÿ Managed and disbursed a \$2.6 million student activity budget.

**Board of Directors, Cornell Campus Store, Ithaca, NY (1996)**

ÿ Appointed to the board of the Cornell Campus Store.

**TEACHING**

**Department of Surgery, UCSF, San Francisco, CA**

(2001-present)

ÿ Teaches junior and senior medical students general surgery and patient management.

ÿ Teaches general surgery residents operative techniques.

**Division of Plastic Surgery, UCSF, San Francisco, CA**

(2005-present)

ÿ Developed the weekly core plastic surgery lecture series in conjunction with faculty and the senior residents.

ÿ Taught junior and senior medical students plastic surgery.

ÿ Taught general surgery residents in weekly conferences.

ÿ Taught senior plastic surgery fellows operative techniques.

**Post-doctoral Fellow, Memorial Sloan-Kettering Cancer Center**

(2004-2005)

ÿ Led graduate students and technicians in planning experiments and in bi-weekly conferences.

**Undergraduate Biology Mentor, Cornell University, Ithaca, NY**

(1996-1997)

ÿ Mentored and tutored freshman biology students.

**CERTIFICATIONS**

**Advanced Videoscopic Surgery  
Advanced Cardiac Life Support**

**HONORS**

**Pacific Coast Surgical Association Resident Research Award, 2004  
Alpha Omega Alpha, 2000  
Golden Key National Honor Society, 1997  
Howard Hughes Undergraduate Research Scholar Program, 1996  
President's Award For Dedicated Service, 1996**

**PROFESSIONAL  
SOCIETIES**

**American Association for the Advancement of Science  
American Society of Plastic Surgeons  
American College of Surgeons, Associate  
American Society of Maxillofacial Surgeons, Associate**

**LICENSURE**

**Licensed Physician and Surgeon, California  
Licensed Physician and Surgeon, New York  
DEA Registration**

**PUBLICATIONS &  
PRESENTATIONS**

**Please refer to attached.**

## Selected Publications

1. **Miranda EP**, Chacon CO, Singer M, Dosanjh AS, Reilly L, Hoffman WY, Foster RD and Hansen SL: The Sartorius Muscle Flap Is Effective for Groin Reconstruction After Serious Vascular Graft Infections. (Manuscript in preparation).
2. **Miranda EP**, Bellevue O and Leong SP: Reoperative selective sentinel lymphadenectomy combined with lymphoscintigraphy is technically feasible for cutaneous tumors of the upper extremity after radical dissection of regional lymph node basins. *ePlasty*. 2014 (in press).
3. **Miranda EP**, Analgesic efficacy of lidocaine for suction-assisted lipectomy with tumescent technique under general anesthesia: a randomized, double masked, controlled trial. *Plast Recon Surg*. 2014 Apr;133(4):597e-8e.
4. **Miranda EP**: Congenital Anomalies of the Skin and Hands. In: Coran AG (ed.) *Pediatric Surgery*, 7<sup>th</sup> edition, Elsevier 2012;1711-1724.
5. **Miranda EP**, Anderson AL, Dosanjh AS and Lee CK: Successful management of recurrent coccygeal hernia with the de-epithelialized rectus abdominis musculocutaneous flap. *J Plast Reconstr Aesthet Surg*. 2009 Jan;62(1):98-101.
6. Cortes RA, **Miranda E**, Lee H and Gertner ME: Biomaterials and the evolution of the hernia repair I: The history of biomaterials and the permanent meshes. In: Norton JA (ed.) *Surgery: Basic Science and Clinical Evidence*, 2<sup>nd</sup> edition, Springer-Verlag, 2008.
7. Cortes RA, **Miranda E**, Lee H and Gertner ME: Biomaterials and the evolution of the hernia repair II: Composite meshes. In: Norton JA (ed.) *Surgery: Basic Science and Clinical Evidence*, 2<sup>nd</sup> edition, Springer-Verlag, 2008.
8. Cortes RA, **Miranda E**, Lee H and Gertner ME: Biomaterials and the evolution of the hernia repair III: Biologically derived prosthetic meshes. In: Norton JA (ed.) *Surgery: Basic Science and Clinical Evidence*, 2<sup>nd</sup> edition, Springer-Verlag, 2008.
9. Gruber R, **Miranda E** and Antony A: Dermabrasion for rhytids in the lateral canthal region. *Aesthetic Plast Surg*. 2007 Nov-Dec;31(6):688-91.
10. Barton WA, Tzvetkova-Robev D, **Miranda EP**, Kolev MV, Rajashankar KR, Himanen JP and Nikolov DB: Crystal structures of the Tie2 receptor ectodomain and the angiopoietin-2-Tie2 complex. *Nature Struct Mol Bio* 2006 Jun; 13(6):524-36.
11. **Miranda EP**: Utility of CT and MRI staging before completion lymphadenectomy in sentinel lymph node-positive melanoma. *J Clin Oncol* 2006 Nov 10, 24(32):5178; author reply 5178.
12. **Miranda EP**: The utility of PET and other modalities in the initial radiographic screening of melanoma patients. *Arch Surg* 2006 Oct, 141(10):1050.
13. **Miranda EP** and Mathes SJ: Congenital deformities of the skin, connective tissues, tendons, muscles and hands. In: O'Neill J, Coran A, Fonkalsrud E and Grosfeld J (eds.) *Pediatric Surgery*, 6<sup>th</sup> edition, C. V. Mosby, 2006.
14. Mathes SJ, Seyfer AE, **Miranda EP**: Congenital deformities of the thorax and breast. In: Mathes SJ (ed.) *Plastic Surgery*. 2005 (vol. 4):457-538.
15. **Miranda EP**: Management of Cutaneous Melanoma. *New England Journal of Medicine* 2004 Dec 23;351(26):2770.
16. **Miranda EP**, Gertner M, Wall J, Grace E, Kashani-Sabet M, Allen RE and Leong SP: Routine imaging of asymptomatic melanoma patients with metastasis to sentinel lymph nodes rarely yields identification of systemic disease. *Arch Surg* 2004 Aug;139(8):831-6; discussion 836-7.

17. Ding W, Beissert S, Deng L, **Miranda E**, Cassetty C, Seiffert K, Campton KL, Yan Z, Murphy GF, Bluestone JA and Granstein RD: Altered cutaneous immune parameters in transgenic mice over-expressing viral IL-10 in the epidermis. *J Clin Invest* 2003 Jun;111(12):1923-31.
18. Pelle E, **Miranda EP**, Fthenakis C, Mammone T, Marenus K and Maes D: Cigarette smoke-induced lipid peroxidation in human skin and its inhibition by topically applied antioxidants. *Skin Pharmacol Appl Skin Physiol*, 2002 Jan-Feb;15(1):63.
19. Campton K, Ding W, Yan Z, Ozawa H, Seiffert K, **Miranda E**, Lonati A, Beissert S, Granstein RD: Tumor antigen presentation by dermal antigen presenting cells. *J Investigative Dermatol*, 2000, 115(1):57.
20. **Miranda EP** and Granstein RD: The Neuropeptide and Cytokine Regulation of Langerhans Cells. *Excerpta Medica ICS* 1999, 1159:101.

## **Selected Abstracts and Presentations**

1. Bellevue O, **Miranda E**, Kashani-Sabet M and Leong SP. Reoperative selective sentinel lymphadenectomy combined with lymphoscintigraphy is technically feasible for cutaneous tumors of the upper extremity after radical dissection of regional lymph node basins. Joint International Oncology Congress, San Francisco, CA 2013.
2. **Miranda EP**: Scrotal Reconstruction After Fournier's Gangrene: University of California San Francisco Bi-Annual Plastic Surgery Update, San Francisco, CA 2013.
3. **Miranda EP**: Abdominal Wall Vasculature & the Importance of Perforators in Abdominal Wall Reconstruction. Complex Hernia Repair and Abdominal Wall Reconstruction Symposium, San Francisco, CA 2012.
4. **Miranda EP**: Non Surgical Jaw Reduction and Facial Contouring. The Aesthetic Show 2012, Las Vegas, NV 2012.
5. **Miranda EP**: Pressure Sore Management: University of California San Francisco Bi-Annual Plastic Surgery Update, San Francisco, CA 2011.
6. **Miranda EP**: Complex Groin Reconstruction: University of California San Francisco Bi-Annual Plastic Surgery Update, San Francisco, CA 2009.
7. **Miranda EP**: New American Techniques in Aesthetic Plastic Surgery: Ming Lun Plastic Surgery Lecture Series, Shenzhen, China 2007.
8. **Miranda EP**, Chacon CO, Dosanjh AS, Foster RD and Hansen SL: The Sartorius Muscle Flap Is Effective for Groin Reconstruction After Serious Vascular Graft Infections. California Society of Plastic Surgeons Annual Meeting, Las Vegas, NV 2006.
9. Dosanjh A, Camberos A, Paydar K, **Miranda EP**, Kuri M, Chang DS, Lee C, and Hansen SL: The geniculate artery is a reliable recipient vessel for lower extremity microvascular reconstruction. California Society of Plastic Surgeons Annual Meeting, Las Vegas, NV 2006.
10. Dosanjh A, Kuri M, **Miranda E**, Foster R, Anthony J and Hansen SL: Single stage breast reconstruction to create the small breast with a large nipple. California Society of Plastic Surgeons Annual Meeting, Las Vegas, NV 2006.
11. **Miranda EP**, Gertner M and Leong SP: Routine imaging of asymptomatic melanoma patients with metastasis to sentinel lymph nodes rarely yields identification of systemic disease. Pacific Coast Surgical Association Annual Scientific Meeting, Wailea, HI 2004.

12. Suzman M, **Miranda E**, Gayle LB, LaTrenta G and Hoffman LA: Large volume abdominal panniculectomy after massive weight loss. American Society of Plastic Surgeons Annual Scientific Meeting, Orlando, FL 2001.
13. Friedman IS, Ding W, **Miranda E**, Amin A, Granstein RD: Somatostatin increases collagenase-1 (MMP-1) expression in cultured human keratinocytes. *J Investigative Dermatol* (abstract) 2000, 114(4):823.
14. **Miranda E**, Tabae A, Ozawa H, Campton K, Granstein RD: Characterization of neuropeptide receptor mRNA expression in normal human keratinocytes and the murine keratinocyte-like cell line PAM-212. *J Investigative Dermatol* (abstract) 1999, 112(4):577.
15. Campton K, Ozawa H, Ding W, **Miranda E**, Moesta A, Granstein RD: XS106 cells and crude murine epidermal cell populations contain mRNA for the IL-18 receptor. *J Investigative Dermatol* (abstract) 1999, 112(4):532.
16. **Miranda EP**, Kim P, Oswald R, Begley TP: Design and synthesis of bi-labeled acetylcholine analogs (2-<sup>13</sup>C-(methyl amido), trimethyl <sup>15</sup>N-aminoethane variants) for solid-state NMR analysis of the configuration of ligand binding to the active site of the nicotinic acetylcholine receptor. Hughes Scholars Seminar Series, Ithaca, NY 1996.