



## Career Interests

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- Aesthetic and Reconstructive Plastic Surgery
- Microsurgery
- Transgender Surgery
- Wound Healing
- High Definition Vaser Liposuction and Body Sculpting with Plasma Skin Tightening

## Professional Career

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### Private Practice (Morpho Plastic Surgery)

Dec '09 to Present

## Professional Training

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### General Surgery Residency (New York Medical College) July '99 – June '06

Completed General Surgery Residency at New York Medical College (Lincoln Hosp./Our Lady of Mercy Hosp.) in the Bronx, NY.

### Microsurgical Fellowship (Chang-gung Memorial Hospital) July '06 – June '07

Completed a microsurgical fellowship with Fu-Chan Wei at Chang-gung Memorial Hospital in Taipei, Taiwan. He is one of the world's leading micro-surgeon. Training included Hand, Lower Extremity Reconstruction, Head and Neck Oncological Reconstruction, Breast Reconstruction, Brachial Plexus injuries, Nerve Tumor Resection/Reconstruction, Facial and extremity reanimation using functional free muscle transfers and nerve grafts.

### Plastic Surgery Fellowship (Tulane University) July '07 – June '09

Completed plastic surgery training at Tulane University Medical School. Comprehensive training which encompasses all types of microsurgical oncological reconstructions, facial trauma, pediatric plastic surgery, burn care and reconstruction, and wound care. Trained with Robert Allen, world leader in free flap breast reconstruction, Calvin Johnson, world leader in Rhinoplasties, and Gustavo Colon, world famous cosmetic surgeon. Major emphasis was placed on cosmetic aspects of plastic surgery through the resident aesthetics clinic under the supervision of Gustavo Colon. Cases performed included both facial and body aesthetic procedures. Training also included a mini-breast fellowship in all types of breast reconstructions, reductions, and augmentations.



**Wound Healing & Stem Cell Research Fellowship** (Harvard Medical School/Brigham & Women's Hospital) **July '02 - June '04**

Completed a two year wound healing research fellowship at Brigham & Women's Hospital and Harvard Medical School. Investigated and published on the use of micro-mechanical forces, bone marrow stem cells, and plate rich plasma on wound healing. Also investigated and published on using hair follicle stem cells for skin re-pigmentation. Received multiple research grants for these research efforts.

## Education

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**Westminster Schools (Atlanta, Ga)**

**August '86 – May '91**

High School

**Duke University (Durham, NC)**

**July '91 – May '95**

Bachelor of Science with a double major in Biology and History. Spent a semester at the Duke Marine Lab in Beaufort, NC.

**Emory Medical School (Atlanta, Ga)**

**July '95 – May '99**

Medical Doctor degree from Emory University.

## Medical Licensures

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- California (Active)
- New York (Inactive)

## Specialties

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- General Surgery
- Aesthetic Plastic Surgery
- Reconstructive Plastic Surgery
- Microsurgery
- Wound Healing



- Transgender Surgery
- High Definition Lipsuction and Body Sculpturing

## Research Experience

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### **Duke University (Beaufort, NC)**

**Fall 1993**

- The Effects of Nitric Oxide on Invertebrate Marine Larvae (Bugula Neritina, Artemia salina, and Balanus amphitrite)

### **Duke University Medical Center (Durham, NC)**

**June '94 – June'95**

- The Purification of Guanylate Cyclase
- Nitric Oxide Regulation of Guanylate Cyclase During Intercellular Signal Transduction
- Nitric Oxide Mediated Gene Induction in E. coli

### **National Taiwan University (Taipei, Taiwan)**

**Summer '96**

- Aracadonic Acid Mediated Anti-oxidant Responses in Endothelial Cells

### **Brigham & Women's Hospital/Harvard (Boston, MA)**

**June '02 – June'04**

- Micromechanical Force Stimulation of Angiogenesis/Wound Healing
- Platelet Releasates and Wound Healing
- Stem Cells and Wound Healing
- Optimization of UV Cross-linked Collagen-GAG Matrices
- Melanocyte transplantation using plucked hair follic

## Hobbies and Avocational Interests

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- Drawing
- Chinese Painting
- Chess (Chinese & Western)
- Tennis
- Table Tennis
- Basketball
- Trumpet and Baritone



## Awards

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- Phi Eta Sigma Honor Society (Duke University) - 1991
- Golden Key Honor Society (Duke University) - 1992
- Sigma Gamma Delta Honor Society (Duke University) - 1994
- Sirena WuDunn Memorial Scholarship in Asian Studies (Duke University) - 1994
- Poster of Distinction Award (Brigham and Women's Hospital Research Exhibition) - October 8, 2003 (1<sup>st</sup> Prize \$300)
- 2008 Stephen Mathes Research Award (Louisiana Society of Plastic Surgeons) - January 20, 2008 (\$200 Prize)
- 2007-2008 Best Resident Research Presentation Award (Tulane/LSU Plastic Surgery)

## Research Grants

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- **CIMIT New Concept Award (2003)**  
*Tension Induced Angiogenesis in Wound Healing*  
Funding: \$25,000
- **CIMIT Proof of Principle Award (2004)**  
*Application of Micro-Mechanical Forces to Accelerate Wound Healing*  
Funding: \$75,000

## Presentations

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- Micro-mechanical Force Stimulation of Angiogenesis. Brigham & Women's Hospital Research Poster Presentation; October 14, 2003.
- Micro-mechanical Force Stimulation of Angiogenesis, American Burn Association, Vancouver, BC; March 25, 2004.
- Micro-mechanical Force Stimulation of Wound Healing - American College of Surgeons Clinical Congress, New Orleans, LA; October 22, 2004
- Micro-mechanical Force Stimulation of Wound Healing - Surgical Grand Rounds, Our Lady of Mercy Hospital; November 18, 2004
- Supraclavicular Artery Flap: A versatile local-regional fasciocutaneous flap for head and neck reconstruction - Louisiana Society of Plastic Surgery 2008 Annual Meeting; January 20, 2008
- Supraclavicular Artery Flap: A local-regional fasciocutaneous flap for



pharyngeal reconstruction – Southeastern Society for Plastic and Reconstructive Surgery 2008 Annual Meeting; June 9, 2008

- Supraclavicular Artery Flap: A local-regional fasciocutaneous flap for pharyngeal reconstruction – American Society of Plastic Surgery 2008 Annual Meeting; November 5, 2008
- Supraclavicular Artery Flap: Novel Approach to Head and Neck Oncologic Reconstruction Using a Regional Flap – Louisiana Chapter, American College of Surgeons & SAL Joint Annual Meeting. New Orleans, LA. January 17, 2009
- Safety of Performing Manual Adipose Stem Cell Separation at the Point of Care. – International Federation for Adipose Therapeutics and Science Annual Meeting. Amsterdam, The Netherlands. November 14, 2014

## Publications

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- 2004 American Burn Association Meeting Abstract  
**Liu P**, R. Chan, DH Lew, SI Ibrahim, CR Valeri, HB Hechtman, DP Orgill. Recombinant Platelet Derived Growth Factor (Regranex) Has Modest Effect on Wound Closure in Genetically Diabetic Mice. *Supplement to Journal of Burn Care & Rehabilitation* March/April 2004, Vol. 25, No.2
- 2004 American Burn Association Meeting Abstract  
**Liu P**, Lew D, Chan R; Mayer H, Ingber D; Mentzer SJ; Orgill DP. Micro-mechanical Force Stimulation of Angiogenesis. *Supplement to Journal of Burn Care & Rehabilitation* March/April 2004, Vol. 25, No.
- 2004 American Burn Association Meeting Abstract  
Chan, R, E Garfein, PR Gigante, **PH Liu**, DP Orgill. Side Population Hematopoietic Stem Cells Promote wound Healing. *Supplement to Journal of Burn Care & Rehabilitation* March/April 2004, Vol. 25, No.2
- 2004 American Burn Association Meeting Abstract  
Lew, DH, **PH Liu**, DP Orgill. Optimization of U-V Cross-linking Density for Durable & Nontoxic Collagen GAG Dermal Substitute. *Supplement to Journal of Burn Care & Rehabilitation* March/April 2004, Vol. 25, No.2
- 2004 American Burn Association Meeting Abstract  
Kwon, H, EK Nishimura, DH Lew, **PH Liu**, DE Fisher, DP Orgill. Renewable Source of Melanocytes for Transplantation and Pigment Manipulation. *Supplement to Journal of Burn Care & Rehabilitation* March/April 2004, Vol. 25, No.2
- 2003 Experimental Biology Meeting Abstract  
Chan, R, R Srey, **P Liu**, DH Lew, N Verna, SI Ibrahim, S Oakes, CR Valeri, HB Hechtman, DP Orgill. Expired liquid preserved platelet releasates retain proliferative activity. *Supplement to Federation of American Societies for Experimental Biology*
- Pietramaggiore G, **Liu P**, Scherer SS, Kaipainen A, Prsa MJ, Mayer H, Newalder J, Alperovich M, Mentzer SJ, Konerding MA, Huang S, Ingber DE, Orgill DP. Tensile forces



- stimulate vascular remodeling and epidermal cell proliferation in living skin. *Ann Surg*. 2007 Nov;246(5):896-902.
- Chan RK, Garfein E, Gigante PR, **Liu P**, Agha RA, Mulligan R, Orgill DP. Side population hematopoietic stem cells promote wound healing in diabetic mice. *Plast Reconstr Surg*. 2007 Aug;120(2):407-11; discussion 412-3.
  - Lew DH, **Liu PH**, Orgill DP. Optimization of UV cross-linking density for durable and nontoxic collagen GAG dermal substitute. *J Biomed Mater Res B Appl Biomater*. 2007 Jul;82(1):51-6.
  - Chan RK, **Liu PH**, Pietramaggiori G, Ibrahim SI, Hechtman HB, Orgill DP. Effect of recombinant platelet-derived growth factor (Regranex) on wound closure in genetically diabetic mice. *J Burn Care Res*. 2006 Mar-Apr;27(2):202-5.
  - Chan RK, **Liu P**, Lew DH, Ibrahim SI, Srey R, Valeri CR, Hechtman HB, Orgill DP. Expired liquid preserved platelet releasates retain proliferative activity. *J Surg Res*. 2005 Jun 1;126(1):55-8.
  - 2008 Aesthetic Facial Reconstruction in Adults and Children Symposium Abstract Ernest S. Chiu, **Perry H. Liu**, Paul L. Friedlander. Head and Neck Oncologic Reconstruction using Supraclavicular Artery Flap.
  - Book Chapter: Chan, Rodney, **Liu, Perry Hsien-Tsung**, Orgill, Dennis P. "Wound Healing: An Orchestration of Humoral and Cellular Forces" in *Encyclopedia of the Microvasculature*. Shepro, D. (editor), Elsevier Academic Press.
  - E-medicine.com article: **Liu PH**, E Chiu. Flaps, Muscle and Musculocutaneous Flaps.
  - Kwon H, **Liu P**, Lew DH, Nishimura EK, Orgill DP. Hair Follicle Melanocyte Cells as a Renewable Source of Melanocytes for Culture and Transplantation. *Eplasty*. 2008 Jan; 8: e7
  - Liu PH, ES Chiu. Supraclavicular Artery Island Flap: A New Technique for Pharyngeal Reconstruction. *Annals of Plastic Surgery*. *Ann Plast Surg*. 2009 May;62(5):497-501.
  - Chiu ES, Liu PH, Friedlander PL. Supraclavicular artery island flap for head and neck oncologic reconstruction: indications, complications, and outcomes. *Plast Reconstr Surg*. 2009 Jul; 124(1):115-23.
  - Commentary Sections: Oxley, PJ. Classifications in Facial Plastic Surgery. Plural Publishing. 2009.
  - Chiu, ES, Liu, PH, Baratelli, R, Lee, MY, Chaffin, A, Friedlander, PL. Circumferential Pharyngoesophageal Reconstruction with a Supraclavicular Artery Island Flap. *Plast Reconstr Surg*. 2010 Jan; 125(1):161-166.

### Pending Publications

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- **Book Chapter: Liu, PH**, FC Wei. Anterolateral Thigh Flap in Lower Extremity Reconstruction.



- **Liu, PH**, FC Wei. Radial Forearm Flap.