

# CURRICULUM VITAE

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## JAMES J. CHAO, M.D., F.A.C.S.

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### PERSONAL INFORMATION

**Current Position:** Associate Professor, Division of Plastic Surgery  
Department of Surgery, University of California, San Diego

**Office Address:**  
UCSD Plastic Surgery  
200 West Arbor Drive  
San Diego, CA 92103-8890  
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**Board Certification:** American Board of Plastic Surgery #6157  
Diplomate, National Board of Medical Examiners #377294  
Fellow, American College of Surgeons

### PREVIOUS FACULTY APPOINTMENTS

8/99-6/04 **Assistant Professor, Director of Hand and Microsurgery**, Department of Plastic Surgery, University of Texas – Southwestern Medical Center, Dallas, Texas

### EDUCATION

7/89-6/93 **New York University School of Medicine**, New York, New York.  
M.D. degree, Medical Scientist Training Program (1993)

7/89-5/91 **New York University School of Medicine**, New York, New York.  
M.S. – Microbiology (1992)  
Thesis Advisor - Wade P. Parks, M.D., Ph.D.  
Thesis - Neurobiology of HIV Infections.

6/85-7/89 **University of Miami School of Medicine**, Miami, Florida.  
Combined M.D./Ph.D. Degree Program.

9/80-6/84 **Stanford University**, Stanford, California.  
B.A. - Psychology: Emphasis in cognitive and neuropsychology.  
B.S. - Biology: Emphasis in molecular genetics and immunology.  
Graduated with Honors.

### FELLOWSHIP TRAINING

7/98-6/99 **NYU Medical Center, Institute of Reconstructive Plastic Surgery**, New York, NY.  
Hand Surgery Fellowship; CAQHS eligible; Director – Dr. Robert W. Beasley.

### INTERNSHIP AND RESIDENCY TRAINING

- 4/98-6/98 **Manhattan Eye Ear Throat Hospital**, New York, NY.  
Chief Resident, Plastic Surgery; Director – Dr. Sherrell J. Aston.
- 7/96-6/98 **NYU Medical Center and Bellevue Hospital Center,  
Institute of Reconstructive Plastic Surgery**, New York, NY.  
Plastic Surgery Residency; Director – Dr. Joseph G. McCarthy.
- 7/93-6/96 **NYU Medical Center, Department of Surgery**, New York, New York.  
General Surgery Residency; Director – Dr. Frank C. Spencer.

## AWARDS AND HONORS

- 2000 UTSW Plastic Surgery Education Award  
1999 New York Hand Surgery Society – Fellow's Research Award, 2<sup>nd</sup> Place  
1998 New York Regional Society for Plastic Surgery - Resident's Research Award, 2<sup>nd</sup> Place  
1998 IRPS - NYU Resident's Night Basic Science Research Award  
1997 New York Regional Society for Plastic Surgery - Resident's Research Award, 1<sup>st</sup> Place  
1997 IRPS - NYU Resident's Night Basic Science Research Award  
1989 Iron Arrow Award - Highest honor given by University of Miami  
1989 Eastern Student Research Forum - Excellence in Research Award  
1988 John G. Beach Excellence in Research Award  
1987 Forest Whitaker Research Scholarship  
1980-1984 Heritage Fund Scholarship, Stanford University  
1980 City of Beverly Hills Community Service Award  
1976 American Legion Medal of Distinction

## SOCIETY MEMBERSHIPS

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|---------------------------------------|---|
| American Society for Plastic Surgeons | Am Soc. for Reconstructive Microsurgery |
| Am. Soc. Laser Med & Surgery          | Texas Society of Plastic Surgeons       |
| Plastic Surgery Research Council      | American College of Surgeons            |
| San Diego Society of Plastic Surgeons |   |

## RESEARCH EXPERIENCE

- 7/96-6/98 **Plastic Surgery Resident**, Institute of Reconstructive Plastic Surgery, NYU Medical Center and Bellevue Hospital Center.  
  
Developed an *in vitro* tri-laminar human cell culture system to study cranial suture fusion. Examined various growth factors to promote/inhibit cranial suture fusion.
- 1/90-6/93 **Graduate Student**, New York University School of Medicine, Departments of Pediatrics and Microbiology .
- 1/86-1/90 University of Miami School of Medicine, Department of Microbiology and Immunology.  
Mentor: Dr. Wade P. Parks.  
  
Investigations of Human Immunodeficiency Virus (HIV-1) and its effects on the central nervous system. Development and characterization of human fetal glial cell lines. Elucidated neurodevelopmental pathways for central nervous system cells.

9/84-6/85 **Research Assistant**, Stanford University Medical Center, Department of Medicine, Division of Infectious Diseases, Dr. William S. Robinson.

Projects included developing a recombinant vaccine for Hepatitis B, detection assay for Hepatitis C, and developing a continuous cell line for the production of HIV.

6/82-6/84 **Undergraduate Researcher**, Stanford University Medical Center, Department of Pathology, Dr. Jeffrey Sklar.

Recombinant DNA research on gene expression and deletion. Devised a technique for diagnosis of B-cell lymphoma using immunoglobulin gene rearrangements. Work involved gel electrophoresis, Southern blot hybridization, Ig probe construction, immunofluorescent staining, and tissue culture.

## ADMINISTRATIVE AND COMMITTEE RESPONSIBILITIES

1999-2004 **Director – Hand and Microsurgery Fellowship**, Department of Plastic Surgery, UT-Southwestern Medical Center.

2000-2004 **Institutional Review Board**. UT Southwestern Medical Center.

2000-2004 **Admissions Interview Committee**, UT-Southwestern School of Medicine.

2000-2004 **Cancer Committee**, UT Southwestern Medical Center.

1988-1989 **Recruiting and Admissions Committee**, Physician-Scientist Training Program, University of Miami School of Medicine.

1987-1989 **M.D./Ph.D. Student Representative**, Medical Student Council, University of Miami School of Medicine.

1987 **Biohazard and Safety Committee**, Department of Microbiology, University of Miami School of Medicine.

1986-1988 **Director and Committee Member**, Eastern Student Research Forum, American Medical Association Research and Education Foundation.

## TEACHING RESPONSIBILITIES

2004 Human Anatomy Lab "Finish Orbit & Eye Lecture, UCSD.

2000-Present **Mentor – STARS Program**, UT-Southwestern School of Medicine.

1999-Present **3<sup>rd</sup> Year Surgery Core Rotation – Plastic Surgery Lecture**, UT-Southwestern School of Medicine.

1987-1989 **Medical Microbiology - Virology**, Section leader, University of Miami School of Medicine.

1987 **Immunobiology**, Group discussion leader, University of Miami School of Medicine.

## SYMPOSIUM FACULTY AND INVITED LECTURES

- 2000 UT-Southwestern Clinical Symposium- Plastic surgery for the primary care physician  
Common Pediatric Hand Injuries  
Dallas, TX
- 2001-2004 UTSW Rhinoplasty Symposium  
Anatomy and Course Faculty  
Dallas, TX
- 2001-2004 UTSW Aesthetics Symposim  
Anatomy and Course Faculty  
Dallas, TX
- 2002 UT-Tyler Breast Cancer Conference  
Reconstructive breast surgery options in 2002  
Tyler, TX
- 2004 CMC Arthritis Cadaveric Workshop(Wright Medical Technology)  
"Open Treatment of CMC Arthritis"  
Mayo Clinic  
Rochester, MN
- ASSH CMC Arthritis Meeting(Wright Medical Technology)  
New York, NY
- Hot Topics in Orthopaedics(Wright Medical Technology)  
New York, NY
- 2005 Wound Management Workshop, UCSD School of Medicine  
Common Hand Injuries, Animal (including Humans) Bites,  
Treating Every Day Burns & Cadaver Lab  
La Jolla, CA
- Breast Reconstruction Surgeons Forum (LifeCell)  
Chicago, IL
- Surgical Grand Rounds, UCSD School of Medicine  
Initial Management & Treatment of Hand Injuries
- Contour ThreadLift Training Course  
Los Angeles, CA

## GRANTS RECEIVED

- 1999-2000 PSEF Grant – Principle investigator  
"Ligament and tendon reconstruction using an acellular dermal matrix"
- 2000-2002 NIH – Pilot and Feasibility Study Grant for the Skin Disease-Related Research Core  
Center, Program project investigator – Ponciano Cruz, M.D., Sub-investigator – James J.  
Chao, M.D.  
"Effect of Gene Therapy with Vascular Endothelial Growth Factor on Wound Healing in

## Diabetes”

- 2000 – 2003 Human Genome Sciences – WHO4 Clinical Study, Site 005 principle investigator  
“A randomized, double-blinded, parallel-group, placebo-controlled, multicenter study to evaluate the efficacy and safety of Repifermin (KGF-2) in subjects with venous ulcers”
- 2001-2003 Mobility Foundation and Veterans Administration Merrit Award – Co-principle investigator  
“Characterization of biological signals during wound healing in spinal cord injury patients”
- 2002 Enzaid Corp. – Co-principle investigator  
“A randomized, double-blinded, placebo-controlled, crossover-group study to evaluate the effectiveness of nutritional supplementation in wound healing”
- 2002 Lifecell Corp. – Principle investigator  
“Growth and differentiation of preadipocytes in micronized acellular dermal matrix for three-dimensional soft tissue filler”
- 2005 (Pending) UCSD Academic Senate - Principle Investigator  
“Chondrocyte culture for functional cartilage engineering, Role in coverage of joint defect”

**PATENTS**

US provisional patent application for the antigenic and Immuno-labeling of human preadipocytes.  
Filed October 2002  
Inventors: Spencer Brown, James Chao, Rodney Rohrich

**MENTORING OF LABORATORY STUDENTS**

1999-2001	Maria Coimbra, M.D.	Postdoctoral Fellow
2000-2001	Dana Coberly, M.D.	Postdoctoral Fellow
2001	Naveen Garg	UTSW Medical Student
2001	Terreck Abulezz, M.D.	Postdoctoral Fellow
2002	Guloun Yoo, M.D.	Postdoctoral Fellow
2002	Sundeep Agarwal	STARs Student
2002-2004	Avron Lipschitz, M.D.	Postdoctoral Fellow
2003	Kim Wright	STARs Student
2003-2004	Kimihito Nojima, M.D.	Postdoctoral Fellow

**MENTORING OF HAND/MICROSURGERY FELLOW**

2000	David Morales, M.D.	Private practice and clinical faculty UTSW, Dallas, TX
2001	Arshad Muzzafar, M.D.	Assistant Professor, Univ of Washington, Seattle, WA
2002	Matthew Conrad, M.D.	Private practice, Wichita, KS
2003	John Griffin, M.D.	Private practice and clinical faculty UCSF, Oakland, CA
2004	Blake Morrison, M.D.	Private practice, Dallas, TX

**CONSULTING**

- 2001-2003 Lifecell Corporation, Brandon, NJ  
Scientific advisor for alloderm use in hand reconstruction

2002-2004 Wright Medical Corp., Arlington, TN  
Scientific advisor for graftjacket use in hand reconstruction

## PUBLICATIONS

Cleary ML, Chao J, Warnke R, Sklar J: Immunoglobulin gene rearrangement as a diagnostic criterion of B-cell lymphoma. *Proc Natl Acad Sci USA* **81**:593-597, 1984.

Cleary ML, Wood GS, , Warnke R, Chao J, Sklar J: Immunoglobulin gene rearrangements in hairy cell leukemia. *Blood* **64**:99-104, 1984.

Chao JJ, Longaker MT, Zide BM: Expanding horizons in head and neck expansion. *Op. Tech. Plast Reconstr Surg* **5**:2-12, 1998.

Castello JR, Olaso AS, Chao JJ, McCarthy JG, Molina F: Craniofacial shortening by contraction osteogenesis: an experimental model. *Plast Reconstr Surg* **105**:617-25; discussion 626-7, 2000.

Coimbra M, Rohrich RJ, Chao JJ, Brown SA: A Prospective Controlled Assessment of Microdermabrasion for Damaged Skin and Fine Rhytides. *Plast Reconstr Surg* **113**:1438-43, 2004.

Brown SA, Coimbra M, Coberly DM, Chao JJ, Rohrich RJ: Oral nutritional supplementation accelerates skin wound healing: A randomized, placebo-controlled, double-arm, crossover study. *Plast Reconstr Surg* **114**:237-44, 2004.

Chao JJ, Castello JR, Coimbra M, Roth DR, Kasabian AK, Brown SA: Ligament and tendon reconstruction using an acellular dermal matrix. Submitted *Plast Reconstr Surg*, 2004.

Muzaffar AR, Chao JJ, Freidrich JB: Posttraumatic thumb reconstruction. *Plast Reconstr Surg* **116**:103e-122e, 2005.

Abulezz TA, El-Oteify MA, Chao JJ, Brown SA: The use of vein grafts in peripheral nerve regeneration: effects of nerve growth factor and E-matrix scaffold. Accepted *Plast Reconstr Surg*, 2005.

Yoo G, Chao JJ, Rohrich RJ, Brown SA: Tissue engineering approach for three-dimensional soft tissue filler: Growth and differentiation of preadipocytes in micronized acellular dermal matrix. Accepted *Plast Reconstr Surg*, 2005.

Nojima K, Brown Sp, Acikel C, Arbique G, Ozturk S, Chao J, Kurihara K, Rohrich RJ: Defining vascular supply and territory of thinned perforator flaps: Part I. Anterolateral thigh perforator flap. *Plast Reconstr Surg* **116**:182-193, 2005.

## PUBLISHED ABSTRACTS

Blomberg B, Chao J, Zakarija M, McKenzie JM: Genetic association of Grave's Disease and the heavy chain immunoglobulin (Ig) gene locus. 8th International Congress of Endocrinology, Kyoto, Japan, 1988.

Blomberg B, Chao JJ, Zakarija M, McKenzie JM: Genetic association of Grave's Disease and immunoglobulin genes. UCLA Symposium, Keystone, CO, 1988.

Chao JJ, Keane RW, Parks WP: Growth characteristics of primary human fetal astrocyte (HFA) strains. Society for Neuroscience, Toronto, Canada, 1988.

Chao JJ, Parks WP: Characterization and infection of human fetal astrocyte (HFA) strains with human immunodeficiency virus (HIV-1). Society for Neuroscience, Phoenix, AZ, 1989.

Chao JJ, Parks WP: Characterization and infection of human fetal astrocyte (HFA) strains with human immunodeficiency virus (HIV-1). M.D./Ph.D. Conference, Aspen, CO, 1989.

Chao JJ, Keane RW, Parks WP: Characteristics of human fetal astrocyte (HFA) strains. National Student Research Forum, Galveston, TX, 1989.

Chao JJ, Keane RW, Parks WP: Establishment and characterization of primary human fetal astrocyte (HFA) strains. FASEB, New Orleans, LA, 1989.

Chao JJ, Parks WP: Establishment of human fetal astrocyte (HFA) strains *in vitro* and characterization of intermediate filament expression. ASCB, San Diego, CA, 1990.

Chao JJ, McCarthy JG, Parks WP: Development of an *in vitro* culture system to study cranial sutures. NYRSPRS, New York, NY, 1998.

Chao JJ, Castello JR, Roth, DR Kasabian AK: VEGF enhances flap survival in the rat TRAM model. ASPRS, New Orleans, LA, 1999.

Chao JJ, Castello JR, Roth, DR, Kasabian AK: Ligament and tendon reconstruction using an acellular dermal matrix. PSRC, Pittsburgh, PA, 1999.

## BOOK CHAPTERS

Chao JJ and Morrison BA: Hand Infections. In: **Grabb and Smith's Plastic Surgery**. Thorne C, Beasley R, Gurtner G (Eds) Wiley, New York, NY, 2005.