

CURRICULUM VITAE

PERSONAL DATA

Name: Timothy S. Wang, M.D.

EDUCATION

05/1987 The University of Michigan, Ann Arbor, Michigan (B.S., Microbiology)
05/1988 Michigan State University, East Lansing, Michigan (Post-baccalaureate Studies, Zoology)
06/1993 Wayne State University School of Medicine, Detroit, Michigan (Doctorate of Medicine)

POST-DOCTORAL TRAINING

07/1993-07/1994 Internship, Department of Internal Medicine, Northwestern University/McGaw Medical Center, Chicago, Illinois (Chair: Louis Landsberg, M.D.)
07/1994-06/1997 Residency, Department of Dermatology, University of Michigan Medical Center, Ann Arbor, Michigan (Chair: John J. Voorhees, M.D.)
07/1995-06/1997 Melanoma Specialty Training Program, Multidisciplinary Melanoma Clinic, Department of Dermatology, University of Michigan Medical Center, Ann Arbor, Michigan, (Director: Timothy M. Johnson, M.D.)
07/1997-06/1999 Mohs Surgery Fellowship, Cutaneous Oncology and Surgery, Department of Dermatology, University of Michigan Medical Center, Ann Arbor, Michigan (Fellowship training director: Timothy M. Johnson, M.D.)

ACADEMIC APPOINTMENTS

07/1997-06/1999 Lecturer, Department of Dermatology, University of Michigan
07/1999-present Clinical Assistant Professor, Department of Dermatology, University of Michigan

SCIENTIFIC ACTIVITIES

12/2002-present Member, University of Michigan Comprehensive Cancer Center
07/2003-present Ad hoc reviewer of manuscripts for *CANCER* and *Dermatologic Surgery*

GRANT SUPPORT

Current Grant Support

Gilbert Whitaker Fund Stage II for Improvement of Teaching. Enhanced Teaching and Learning Core Procedural Skills and Core Knowledge. PI: Timothy M. Johnson, M.D. Co-Investigator: Timothy S. Wang, M.D. 3% effort. 1/1/04-9/30/05. \$25,000

Harry J. Lloyd Charitable Trust. Exploring Ways to Reach (or Outreach of) Middle-aged and Older Men to Improve Melanoma Awareness and Early Detection. PI: Susan Swetter, M.D. (Stanford), UM Site PI: Tim Johnson, M.D., Co-Investigator: Timothy S. Wang, M.D. 0% effort. (6/1/04-6/1/06). \$10,266 UM site.

Previous Grant Support

Gilbert Whitaker Fund for Improvement of Teaching. Enhanced Teaching and Learning Core Procedural Skills and Core Knowledge. PI: Timothy M. Johnson, M.D., Co-Investigator: Timothy S. Wang, M.D. 3% effort. 4/30/02-9/30/03. \$5,000 (one time award)

UMCC Munn Research Grant. The Effects of a Professionally Produced Videotape on Education and Anxiety/Distress Levels for Patients with a New Diagnosis of Melanoma: A Randomized, Prospective Clinical Outcomes Trial. PI: Timothy M. Johnson, M.D., Co-Investigator: Timothy S. Wang, M.D. 3% effort. 7/1/01-6/30/02. \$15,000 (one time award)

University of Michigan (2001-250). Patient Examination with MelaFind™ system developed by Electro-Optical Sciences, Inc, (EOS). Site PI: Jennifer L. Schwartz, M.D., Co-Investigator: Timothy S. Wang, M.D. 0% effort. 4/1/01-9/30/01 (study ongoing through 2004). \$5,750 (one time award)

SCIENTIFIC/ SCHOLARLY RESEARCH ACTIVITIES

University of Michigan (IRB# 2004-0618): The molecular basis of melanoma-Tissue Core. PI: Timothy M. Johnson, M.D., Co-Investigator: Timothy S. Wang, M.D. 2004-ongoing.

University of Michigan (IRB# 2004-0890): Molecular, biochemical, and cellular basis of non-melanoma skin cancer - Tissue Core. PI: Timothy M. Johnson, M.D., Co-Investigator: Timothy S. Wang, M.D. 2004-ongoing.

University of Michigan (IRB# 2001-0375): Prospective melanoma clinical database. New database continuation from 1992-2000. PI: Timothy M. Johnson, M.D., Co-Investigator: Timothy S. Wang, M.D. 2001-ongoing.

University of Michigan (IRB# 2004-0458): Internet Use: Patterns and Effects. PI: Christopher K. Bichakjian, M.D., Co-Investigator: Timothy S. Wang, M.D. 2005-ongoing.

University of Michigan (IRB# 2004-0863): Reaching Out to Middle-Aged and Older Men to Improve Melanoma Awareness and Early Detection. Site PI: Timothy M. Johnson, M.D., Co-Investigator: Timothy S. Wang, M.D. 2005-ongoing.

University of Michigan (IRB# 2001-0250). Patient Examination with MelaFind™ system. Site PI: Jennifer L. Schwartz, M.D., Co-Investigator: Timothy S. Wang, M.D. 2005-ongoing

University of Michigan (UMMC 2000-0015): Molecular, biochemical, and cellular basis of non-melanoma skin cancer and precancer. PI: Andrzej Dlugosz, M.D., Co-Investigator: Timothy S. Wang, M.D. 2000-ongoing.

University of Michigan (UMMC 2000-0713): Molecular, biochemical, and cellular basis of melanoma and other melanocytic lesions: Tissue Bank. PI: Timothy M. Johnson, M.D., Co-Investigator: Timothy S. Wang, M.D. 2001-2004.

University of Michigan (UMMC 2000-0471): The effects of a professionally produced videotape on education and anxiety/distress levels for patients with a new diagnosis of melanoma: a randomized, prospective clinical outcomes trial. PI: Timothy M. Johnson, M.D., Co-Investigator: Timothy S. Wang, M.D. 2001-2003.

University of Michigan (UMMC 2000-0150): A review of screening CXRs in asymptomatic patients with invasive melanoma to evaluate their cost effectiveness and the true incidence of lung metastasis. PI: Timothy Wang, M.D. 2000-2002.

University of Michigan (UMMC 98-78): A comparison study of diamond fraise spot dermabrasion vs. manual spot dermabrasion using medium grade drywall sanding screen on surgical scars resulting from skin cancer surgery. PI: Timothy M. Johnson, M.D., Co-Investigator: Timothy S. Wang, M.D. 1998 –2001.

Immunogenetic Associations in Pure Ocular Cicatricial Pemphigoid. Department of Dermatology, Wayne State University School of Medicine, Detroit, Michigan. (Lawrence Chan, M.D.) Research Assistant, Timothy S. Wang, M.D. 1992.

Photonumeric Scale to Assess Cutaneous Photodamage. Retinoic Acid Effects on Epidermal Transglutaminase Enzyme Activity. Clinical Pharmacology Unit, Department of Dermatology, University of Michigan Medical Center, Ann Arbor, Michigan. (Christopher E. M. Griffiths, M.D. and John J. Voorhees, M.D.) Research Assistant, Timothy S. Wang, M.D. 1990.

Effects of Ultra-Violet Light on Cutaneous Immunoregulation. Immune Regulation in Allergic and Irritant Cutaneous Reactions. Immunodermatology Unit, Department of

Dermatology, University of Michigan Medical Center, Ann Arbor, Michigan. (Kevin D. Cooper, M.D. and Ole Baadsgaard, M.D.) Research Assistant, Timothy S. Wang, M.D. 1988-1989.

Comparative Studies of Bat Ankle Morphology. Department of Zoology, Michigan State University, East Lansing, Michigan. (Donald Straney, Ph.D.) Research Assistant, Timothy S. Wang, M.D. 1987-1988.

CERTIFICATION AND LICENSURE

Medical Licensure: Michigan, # XXXXXXXXXX

Certification: American Board of Dermatology (10/1997)

American Board of Dermatology – re-certification in General Dermatology and Dermatologic Surgery (07/2005)

American College of Mohs Micrographic Surgery & Cutaneous Oncology (07/1999)

MILITARY SERVICE

None

HONORS AND AWARDS

09/1981 National Merit Scholar Semi-finalist

08/1987-05/1988 Post-baccalaureate Studies with Honors and Distinction,
Department of Zoology, Michigan State University

06/1991-06/1992 Honors in Sub-internship, Dermatology, Neurology, Radiology
and Otolaryngology

09/2002 Listed in Hour Detroit magazine, "Metro Detroit's Best Doctors"

12/2003 Listed in *Best Doctors in America*

01/2004 Listed in *Guide to America's Top Physicians*

01/2005 Listed in AcademicKeys Who's Who in Medical Sciences
Education

MEMBERSHIPS IN PROFESSIONAL SOCIETIES

MEMBER SINCE

American Academy of Dermatology	1997
American College of Mohs Micrographic Surgery and Cutaneous Oncology	1999
Association of Academic Dermatologic Surgeons	2003

TEACHING ACTIVITIES

My role at the University of Michigan encompasses all 3 components of the mission triangle with pursuit of excellence in clinical service, research, and teaching. I dedicate approximately 20% direct effort to educational activities.

PRESENTATIONS

EXTRAMURAL INVITED PRESENTATIONS

Local

“Skin Cancer 101,” Physics & Anatomy Class, Stockbridge High School, Stockbridge Community Schools, Ann Arbor, Michigan, November 1999.

“Skin Cancer for Non-Dermatologists,” Department of Geriatrics, University of Michigan, Ann Arbor, Michigan, February 2000.

“Skin Cancer for Non-Dermatologists: What you need to know,” Department of Internal Medicine, University of Michigan, Ann Arbor, Michigan, May 2000.

“Malignant Melanoma,” Division of Hematology Oncology, University of Michigan, Ann Arbor, Michigan, May 2001.

“Skin Cancer 101,” Physics & Anatomy Class, Stockbridge High School, Stockbridge Community Schools, Ann Arbor, Michigan, November 2001.

“Mohs Surgery and Reconstruction”, Department of Ophthalmology, University of Michigan, Ann Arbor, Michigan, June 2002.

“Name that Lesion”, Department of Ophthalmology, University of Michigan, Ann Arbor, Michigan, May 2003.

“Skin Cancer 101”, Division of Geriatrics, University of Michigan, Ann Arbor, Michigan, October 2004

Regional

“Alopecia Areata Answer Day – Panel member,” Alopecia Areata Foundation, Lawrence Technology, Southfield, Michigan, April 2000.

"Skin Lesions: Assessment and Diagnosis," Advanced Practice Nurses and Physician Assistants, Annual Conference, University of Michigan Comprehensive Cancer Center, Ann Arbor, Michigan, June 2000.

“Melanoma,” Flower Hospital, Grand Rounds, Sylvania, Ohio, November 2000.

“Lentigo Maligna/Lentigo Maligna Melanoma: Staged Surgical Approach with the "Square" Procedure,” Michigan Dermatological Society, University of Michigan, Ann Arbor, Michigan, April 2001.

National

“Concepts of Tissue Movement”, American College of Mohs-Micrographic Surgery and Cutaneous Oncology, Mohs Histotech Society, Annual Meeting, Dallas, TX, October 2001

“Mohs Reconstruction”, American College of Mohs-Micrographic Surgery and Cutaneous Oncology, Mohs Histotech Society, Annual Meeting, San Diego, CA, October 2004

“Melanoma”, American College of Mohs-Micrographic Surgery and Cutaneous Oncology, Mohs Histotech Society, Annual Meeting, Atlanta, GA, October 2005

OTHER PRESENTATIONS

Local

"Paraneoplastic Dermatoses," Department of Dermatology, University of Michigan, Ann Arbor, Michigan, August 1994.

“Disorders of the Cutaneous Basement Membrane Zone,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, April 1995.

“Porphyrias” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, February 1997.

“Porphyrias” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, November 1997.

“Porphyrias” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, January 1999.

“Pigs Foot Session,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, July 1999.

“Introduction to Minor Surgery – Pigs Foot Session,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, September 1999.

“Cutaneous Manifestations of HIV Infection,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, December 1999.

“Dermatology Surgery & Reconstruction,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, December 1999.

“Porphyrias,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, February 2000.

“Pigs Foot,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, July 2000.

“Basal Cell Carcinoma and Mohs,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, August 28, 2000.

“Cutaneous Manifestations of Tropical Disease,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, October 2000.

“Dermatology Surgery & Reconstruction,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, December 2000.

“Cutaneous Manifestations of HIV Infection,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, December 2000.

“Concepts of Tissue Movement,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, April 2001.

“Flaps,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, May 2001.

“Grafts,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, June 2001.

“Introduction to Skin Cancer and Mohs Surgery,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, July 2001.

“Pig’s Foot Session,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, July 2001.

“Dermatology Surgery & Reconstruction,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, December 2001.

“Cutaneous Manifestations of HIV Infection,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, December 2001.

“Basal Cell Carcinoma,” Department of Dermatology, University of Michigan, Ann Arbor, January 2002.

“Surgery Consults,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, July 2002.

“Dermatology Surgery & Reconstruction,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, December 2002.

“Cutaneous Manifestations of HIV Infection,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, December 2002.

“Intro to Mohs”, Department of Dermatology, University of Michigan, Ann Arbor, Michigan, July 2003.

“Mohs Surgery”, Department of Dermatology, University of Michigan, Ann Arbor, Michigan, December 2003.

“Dermatologic Surgery & Reconstruction,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, December 2003.

“Intro to Mohs”, Department of Dermatology, University of Michigan, Ann Arbor, Michigan, July 2004.

“Surgery Q and A”, Department of Dermatology, University of Michigan, Ann Arbor, Michigan, November, 2004.

“Dermatologic Surgery & Reconstruction,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, December 2004.

“Dermatologic Surgery & Reconstruction,” Department of Dermatology, University of Michigan, Ann Arbor, Michigan, December 2005.

National

“Clinical Nose Anatomy,” American Academy of Dermatology, Advanced Surgery Course, New Orleans, Louisiana, March 1999.

“Clinical Nose Anatomy,” American Academy of Dermatology, Advanced Surgery Course, San Francisco, California, March 2000.

“Clinical Nasal Anatomy,” American Society of Dermatologic Surgery and American College of Mohs Micrographic Surgery and Cutaneous Oncology Annual Meeting, Denver, Colorado, November 2000.

“Teaching and Learning of Core Procedural Skills Using a Structured Teaching Program”, American Society of Dermatologic Surgery and American College of Mohs Micrographic Surgery and Cutaneous Oncology Annual Meeting, New Orleans, Louisiana, October 2003.

COMMITTEE AND ADMINISTRATIVE SERVICE

Medical School:

01/2000-01/2002

Member, Admissions Committee, University of Michigan, Medical School, Ann Arbor, Michigan.

Department:

03/1999-Present	Melanoma Clinical Database Committee
07/1999-Present	Inter-Departmental Referral Process Committee
07/1999-Present	Cutaneous Surgery and Oncology Program Strategic Planning and Search Committee
07/1999-Present	Cutaneous Surgery and Oncology Program Clinical Redesign and Retreat: Forms Committee
11/1999-present	Department of Dermatology Resident Review Committee
11/2003-Present	Cutaneous Surgery and Oncology Program Telemedicine Committee
01/2006-Present	Cutaneous Surgery and Oncology Program Faculty Recruitment Committee

Community Service

1999- Present	Volunteer, Annual Free Skin Cancer Screening Clinic
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BIBLIOGRAPHY

Completed Publications in Scientific Journals

Peer Reviewed

1. Baadsgaard O, **Wang TS**: Immune regulation in allergic and irritant skin reactions. *Int J Dermatol* 1991; 30:161-70.
2. Griffiths CEM, **Wang TS**, Hamilton TA, Voorhees JJ, Ellis CN: A photonumeric scale for the assessment of cutaneous photodamage. *Arch Dermatol* 1992;128: 347-51.
3. Griffiths CEM, Rosenthal DS, Reddy AP, Elder JT, Astrom A, Leach K, **Wang TS**, Finkel LJ, Yuspa SH, Voorhees JJ, Fisher GJ: Short-term retinoic acid treatment increases in vivo, but decreases in vitro, epidermal transglutaminase-K enzyme activity and immunoreactivity. *J Invest Dermatol* 99:1992; 283-8.
4. Chan LS, **Wang TS**, Wans X-S, Hammerberg C, Cooper KD: High frequency of HLA-DQB1*0301 allele in patients with pure ocular cicatricial pemphigoid. *Dermatol* 1994; 189:99-101.
5. Karimipour DJ, Johnson TM, Kang S, **Wang TS**, Lowe L: Mucinous carcinoma of the skin. *J Am Acad Dermatol* 1997; 36: 323-6.

6. **Wang TS**, Lowe L, Smith JW 2nd, Francis IR, Sondak VK, Dworzanian L, Finkelstein S, Slingluff CL Jr, Johnson TM. Complete spontaneous regression of pulmonary metastatic melanoma. *Dermatol Surg* 1998; 24:915-9.
7. Johnson TM, **Wang TS**, Fader DJ: The birhombic transposition flap for soft tissue reconstruction. *J Am Acad Dermatol* 1999; 41:232-6.
8. Johnson TM, Saluja A, Fader D, Blum D, Cotton J, **Wang TS**, Lowe L: Isolated extragenital bowenoid papulosis of the neck. *J Am Acad Dermatol* 1999; 41:867-70.
9. Fader DJ, **Wang TS**, Johnson TM: Nasal reconstruction utilizing the muscle hinge transposition flap with overlying full-thickness skin graft. *J Am Acad Dermatol* 2000; 43:837-41.
10. Boyd CM, Baker SR, Fader DJ, **Wang TS**, Johnson TM: The forehead flap for nasal reconstruction. *Arch Dermatol* 2000; 136:1365-70.
11. Johnson TM, Bichakjian CK, **Wang TS**: The cross-stitch. *J Am Acad Dermatol* 2001; 44:673-4.
12. Bichakjian CK, Schwartz JL, **Wang TS**, Hall JM, Johnson TM, Biermann JS: Melanoma information on the Internet: often incomplete - a public health opportunity? *J Clin Oncol* 2002; 20:134-41.
13. Fader DJ, **Wang TS**, Johnson TM: The Z-plasty transposition flap for reconstruction of the middle cheek. *J Am Acad Dermatol* 2002; 46:738-42.
14. Gillard MO, **Wang TS**, Boyd CM, Dunn RL, Fader DJ, Johnson TM: Conventional diamond fraise vs manual spot dermabrasion with drywall sanding screen for scars from skin cancer surgery. *Arch Dermatol* 2002; 138:1035-39.
15. Schwartz JL, **Wang TS**, Hamilton TA, Lowe L, Sondak VK, Johnson TM: Thin primary cutaneous melanomas: associated detection patterns, lesion characteristics, and patient characteristics. *Cancer* 2002; 95:1562-8.
16. Hattori Y, Nerusu KC, Bhagavathula N, Brennan M, Hattori N, Murphy HS, Su LD, **Wang TS**, Johnson TM, Varani J: Vascular expression of matrix metalloproteinase-13 (collagenase-3) in basal cell carcinoma. *Exp Mol Pathol* 2003; 74:230-7.
17. Bezanis G, **Wang TS**, Johnson TM, Lowe L: Verrucous plaques on the leg. *Arch Dermatol* 2003; 139:933-8.
18. Su L, Fullen DR, Lowe L, **Wang TS**, Schwartz JL, Cimmino VM, Sondak VK, Johnson TM: Desmoplastic and neurotropic melanoma. *Cancer* 2004; 100: 598-604.
19. **Wang TS**, Johnson TM, Cascade PN, Redman BG, Sondak VK, Schwartz JS: Evaluation of staging chest radiographs and serum lactate dehydrogenase for localized melanoma. *J Am Acad Dermatol* 2004; 51:399-405.

20. **Wang TS**, Schwartz JL, Karimipour DJ, Orringer JS, Hamilton T, Johnson TM: An education theory-based method to teach a procedural skill. Arch Dermatol 2004; 140:1357-61.
21. Sabel MS, Strecher VJ, Schwartz JL, **Wang TS**, Karimipour DJ, Orringer JS, Johnson T, Bichakjian CK: Patterns of Internet use and impact on patients with melanoma. J Am Acad Dermatol 2005; 52: 779-85.
22. Karimipour DJ, Schwartz JL, **Wang TS**, Bichakjian CK, Orringer JS, King AL, Huang CC, Johnson TM: Microstaging accuracy after subtotal incisional biopsy of cutaneous melanoma. J Am Acad Dermatol.2005; 52: 798-802.
23. Orringer JS, Fendrick AM, Trask PC, Bichakjian CK, Schwartz JL, **Wang TS**, Karimipour DJ, Johnson TM. The effects of a professionally produced videotape on education and anxiety/distress levels for patients with newly diagnosed melanoma: a randomized, prospective clinical trial. J Am Acad Dermatol 2005; 53:224-9.
24. Yucel T, Mutnal A, Fay K, Fligel SE, **Wang T**, Johnson T, Baker SR, Varani J. Matrix metalloproteinase expression in basal cell carcinoma: relationship between enzyme profile and collagen fragmentation pattern. Exp Mol Pathol. 2005; 79,151-60.

Electronic Publications

1. Van Ittersum J, **Wang TS**. Mohs Surgery for Skin Cancer. Cancer News on the Net®, 2004. <http://128.241.169.113/category.asp?Cat=4&AID=201>

Book Chapters

1. Gillard M, **Wang TS**, Johnson TM, Nonmelanoma Cutaneous Malignancies. Oncology: An Evidence-Based Approach, Springer-Verlag New York, Inc. 2006

Abstracts

1. Griffiths CEM, Rosenthal DS, Leach K, **Wang TS**, Yuspa SH, Voorhees JJ, Fisher GJ: Human epidermal transglutaminase activity in immunostaining are increased in vivo and decreased in keratinocytes in vitro. J Invest Dermatol. 1991;96:620.

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