

CURRICULUM VITAE

TSZ YEUNG LAU M.D.

Assistant Professor
Department of Neurosurgery and Brain Repair
University of South Florida

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LANGUAGES – CHINESE (MANDARIN AND CANTONESE), ENGLISH

ACADEMIC APPOINTMENT(S)/APPOINTMENT(S)

8/2013-present Tampa, FL
Assistant Professor
Department of Neurosurgery and Brain Repair
University of South Florida
Address:
Department of Neurosurgery and Brain Repair
USF Health, South Health Tampa Center
2 Tampa General Circle

5/2014-present
Director of Cerebrovascular and Skull Base Surgery
University of South Florida – Lakeland Division

5/2014-present
Trauma Service Liaison
Lakeland Regional Medical Center

EDUCATION

7/2006 – 6/2013 University of South Florida Tampa, FL
• Residency Training in Neurological Surgery
Address:
Department of Neurosurgery and Brain Repair
USF Health South Health Tampa Center
2 Tampa General Circle

6/2010 – 6/2011 University of South Florida Tampa, FL
• Fellowship in Skull Base Cerebrovascular Surgery
Address:
Department of Neurosurgery and Brain Repair
USF Health South Health Tampa Center
2 Tampa General Circle

8/2002-5/2006 State University of New York – Buffalo Buffalo, NY

- Medical Doctorate Program
- Graduated with Research Honors

Address:

Office of Medical Education
45 Biomedical Education Building
University at Buffalo, Buffalo, NY 14214

9/2001-6/2002, Summer 2003 National Institutes of Health Bethesda, MD

- Postbaccalaureate Intramural Research Training Award (IRTA) Fellowships Program

Address:

9000 Rockville Pike
Bethesda, Maryland 20892

6/1999 – 6/2001 University of California - Berkeley Berkeley, CA

- *B.A.*, Molecular and Cell Biology – Cell and Developmental Biology
- Graduated with MCB Honors

Address:

110 Sproul Hall
Berkeley, CA 94720-5800

8/1997 – 6/1999 SUNY - Binghamton Binghamton, NY

- Phi Eta Sigma National Honor Society

Address:

Binghamton University
State University of New York
PO Box 6000
Binghamton, NY 13902-6000

AWARDS/CERTIFICATES

2011 - 5th Annual Asian Epilepsy Surgery Congress – Hong Kong

- Best Epilepsy Paper Award

2011 - University of South Florida

- Certifying Course in Microvascular Anastomosis

2011 - Southern Neurosurgical Society

- Augustus McCravey Resident Award Paper – Clinical Award

2006 - State University of New York, Buffalo

- The Robin M. Bannerman Memorial Research Award

2001-2002, Summer 2003 - National Institutes of Health

- Postbaccalaureate Intramural Research Training Award

1998 - State University of New York – Binghamton

- Undergraduate Research Award, 1998

PUBLICATIONS

Peer Reviewed Publications

Carotid Body Tumor – Treatment Options and National Cancer Database Analysis

(manuscript in preparation)

Reintjes S, Glenn A, Hill J, van Loveren H, Agazzi S, Lau T

Carotid Endarterectomy versus Carotid Artery Stenting: Current Utilization Trends

(manuscript in preparation)

Reintjes S, Macca A, Glenn A, Beckman J, van Loveren H, Agazzi S, Lau T

C-shaped Incision for Far-Lateral Suboccipital Approach: Anatomical Study and Clinical Correlation

J Neurol Surg B 2015;76:117–121.

Lau T, Reintjes S, Olivera R, van Loveren H, Agazzi S.

Reporting success rates in the treatment of vestibular schwannomas: are we accounting for the natural history?

J Clin Neurosci. 2014 Jun;21(6):914-8.

Miller T, Lau T, Vasani R, Danner C, Youssef AS, van Loveren H, Agazzi S.

Temporal lobe surgery in medically refractory epilepsy: A comparison between populations based on MRI findings.

Seizure. 2013 Sep 12. pii: S1059-1311(13)00251-3.

Lau T, Miller T, Klein T, Benbadis SR, Vale FL.

Field of view comparison between two-dimensional and three-dimensional endoscopy

Laryngoscope. 2013 May 27

Van Gompel JJ, Tabor MH, Youssef AS, Lau T, Carlson AP, van Loveren HR, Agazzi S.

In Vivo Animal Stroke Models: a rationale for rodent and non-human primate models

Transl Stroke Res. 2013 Jun 1;4(3):308-321.

Tajiri N, Dailey T, Metcalf C, Mosley Y, Lau T, Staples M, van Loveren H, Kim S, Yamashita T, Yasuhara T, Date I, Kaneko Y, Borlongan CV

Cerebral aneurysm as an exacerbating factor in stroke pathology and a therapeutic target for neuroprotection.

Curr Pharm Des. 2012;18(25):3663-9.

Tajiri N, Lau T, Glover LE, Shinozuka K, Kaneko Y, van Loveren H, Borlongan CV

Paradoxical trends in the management of acoustic neuroma in the United States.

J Neurosurg. 2012 Sep;117(3):514-9.

Lau T, Olivera R, Miller T, Danner C, van Loveren H, Agazzi S

Immediate, but not delayed, microsurgical skull reconstruction exacerbates brain damage in experimental traumatic brain injury model.

PLoS One. 2012;7(3):e33646.

Glover LE, Tajiri N, Lau T, Kaneko Y, van Loveren H, Borlongan CV

Cyclosporine-A as a neuroprotective agent against stroke: its translation from laboratory research to clinical application.

Neuropeptides 2011 Dec;45(6):359-68.

Osman M, Lulic D, Glover L, Stahl C, Lau T, van Loveren H, Borlongan C

Advancements in carotid stenting leading to reductions in perioperative morbidity among patients 80 years and older.

Neurosurgery. 2006 Feb;58(2):233-40

Villalobos H, Harrigan MR, Lau T, Wehman JC, Hanel RA, Levy EJ, Guterman LR, Hopkins LN

Laser-Capture microdissection (LCM): refining estimates of the quantity and distribution of latent herpes simplex virus 1 and varicella-zoster virus DNA in human trigeminal ganglia at the single cell level .

J Virol. 2005 Nov;79(22):14079-87.

Wang K, Lau TY, Morales M, Mont EK, Straus SE

Frequency and management of recurrent stenosis after carotid artery stent implantation.

J Neurosurg. 2005 Jan;102(1):29-37.

Levy EI, Hanel RA, Lau T, Koebbe CJ, Levy N, Padalino DJ, Malicki KM, Guterman LR, Hopkins LN

Comparative efficacy and immunogenicity of replication-defective, recombinant glycoprotein, and DNA vaccines for herpes simplex virus 2 infections in mice and guinea pigs.

J Virol. 2005 Jan;79(1):410-8.

Hoshino Y, Dalai SK, Wang K, Pesnicak L, Lau TY, Knipe DM, Cohen JI, Straus SE

Book Chapters:

Cell-Based Therapies in Stroke. Springer Vienna, 2013, pp 29-46.

Different sources of stem cells for transplantation therapy in stroke

Dailey T, Eve D, Tajiri N, Lau T, Mosley Y, van Loveren H, Sanberg P, Kaneko Y, Borlongan C

Gliomas: Symptoms, Diagnosis and Treatment Options (Cancer Etiology, Diagnosis and Treatments). Nova Science Publishers, New York, 2013: pp 47-58. Clinical Features of Central Nervous System Tumors.

Lau T, Miller T, Tran N

Handbook of Neurosurgery. Greenberg MS. (7th Edition). Thieme Publishers, New York, 2010: pp 572-574. Spinal cord stimulation.

Lau T, Greenberg MS

ACADEMIC ACTIVITIES

2/2015 Faculty – University of South Florida, Department of Neurological Surgery and Brain Repair

13th Annual Masters Course In Skull Base Surgery

10/2013 Stroke Symposium Coordinator, Sergeants-at-Arms

2013 Congress of Neurological Surgeons Annual Meeting

3/2011 Faculty - University of South Florida CME

Acoustic Tumors - Current Management Strategies and 3D Live Surgical Simulation

2011 IRB Research Protocol. Co-Investigator

University of South Florida Human Vascular Tissue Repository for Neuroscience Research and Database

PRESENTATIONS

Oral Presentations:

10/2015 Oral – 4th Lakeland Regional Health Neuroscience Symposium

Keynote Speaker

Stroke Prevention – Neurosurgery Perspectives

Lau T

7/2015 Oral – University of South Florida - Neurosurgery Resident Cranial Simulation Course

Far Lateral Approach and Vertebral Artery Mobilization

Lau T

6/2015 Oral – 4th China Multidisciplinary Conference of Skull Base Surgery, Beijing

Carotid Body Tumor – Treatment Options and National Cancer Database Analysis

Lau T

3/2015 Oral – Southern Neurological Society

Carotid Endarterectomy versus Carotid Artery Stenting: Current Utilization Trends

Reintjes S, Macca A, Glenn A, Beckman J, van Loveren H, Agazzi S, Lau T

2/2015 Oral – University of South Florida 13th Annual Masters Course In Skull Base Surgery

Cerebral Revascularization and Graft Selections

Lau T

12/2014 Oral – Lakeland Regional Medical Center CME

Neurogenic Shock – evidence based medicine?

Lau T

10/2014 Oral – Miami – RTI Surgical Fall Symposium and Cadaveric Training Lab.

Techniques and outcomes of occipital cervical fusion

Lau T

8/2014 Oral – University of South Florida - Neurosurgery Resident Cranial Simulation Course

Far Lateral Approach and Vertebral Artery Mobilization

Lau T

7/2014 Oral – Hong Kong Chiu Chow Chamber of Commerce

Memory and Deep Brain Stimulator

Lau T

5/2014 Oral – 6th Academic Congress of International Chinese Neurosurgical Sciences

The Natural History of Vestibular Schwannomas and its Implication on Radiosurgery Treatment

Lau T

11/2012 Oral - Mayo Clinic (Jacksonville), Neurosurgery Conference

Vestibular Schwannoma: Current Treatment Trends and Radiosurgery Outcomes

Lau T

2/2012 Oral - Southern Neurological Society

Temporal Lobe Surgery: A comparison in outcome between populations based on MRI findings

Lau T, Miller T, Klein T, Benbadis S, Vale F

11/2011 Oral - 5th Annual Asian Epilepsy Surgery Congress

Temporal Lobe Surgery: A comparison in outcome between populations based on MRI findings

Lau T, Miller T, Klein T, Benbadis S, Vale F

3/2011 Oral - University of South Florida CME

Acoustic Tumors - Current Management Strategies and 3D Live Surgical Simulation

Current Trends in the Management of Acoustic Neuroma in the United States: Are we over treating?

Lau T, Olivera R, Danner C, van Loveren H, Agazzi S

2/2011 Oral -North America Skull base Society

Current trends in the management of acoustic neuroma in the United States: Are we over treating?

Lau T, Olivera R, Danner C, van Loveren H, Agazzi S

2/2011 Oral -North America Skull base Society

Extended transoral approach to the craniovertebral junction. Technical Note

Olivera R, Lau T, Youssef S, Uribe J

2/2011 Oral -North America Skull base Society

C-shaped incision for lateral suboccipital approach: Anatomical study and clinical correlation

Olivera R, Lau T, van Loveren H, Agazzi S

2/2011 Oral - Southern Neurological Society

Current Trends in the Management of Acoustic Neuroma in the United States: Are we over treating?

Lau T, Olivera R, Danner C, van Loveren H, Agazzi S

5/2010 Oral - USF Department of Neurological Surgery and Brain Repair
Grand Rounds

Battle Against Intracranial Saccular Aneurysm: Where is the Frontier?

Lau T

Poster Presentations:

3/2012 Poster - 28th Annual Meeting of the American Association of Neurological Surgeons and Congress of Neurological Surgeons - Section on Disorders of the Spine and Peripheral Nerves

Direct Lateral vs. Transpedicular Corpectomy for Spinal Metastasis

Saleh E, Lau T, Miller T, Vrionis F, Tran N

11/2011 Poster - 5th Annual Asian Epilepsy Surgery Congress

Phase II Monitoring in Adults with Medically Intractable Epilepsy that is Non-localizable by Scalp Electrode EEG

Miller T, Lau T, Pollock G, Dionisio J, Klein T, Tatum W, Benbadis S, Vale F

10/2011 Poster - 61st Annual Meeting of the Congress of Neurological Surgeons

Current Trends in the Management of Acoustic Neuroma in the United States: Are We Over Treating?

Lau T, Olivera R, Alikhani P, van Loveren H, Agazzi S

10/2011 Poster - 61st Annual Meeting of the Congress of Neurological Surgeons

Does Radiosurgery Take Undue Credit for the Natural History of Acoustic Tumors?

Miller T, Alikhani P, Lau T, Danner C, Olivera R, , van Loveren H, Agazzi S

4/2011 Poster - University of South Florida Neuroscience Research Day

Aesthetic Microsurgical Post-operative Maneuver Using Skull Bone Flap and Bone Wax in Experimental Traumatic Brain Injury Model Exacerbates Cortical Tissue Damage

Glover L, Axley J, Hethorn W, Tajiri N, Kaneko Y, Lau T, van Loveren H, Borlongan C

2/2011 Poster - University of South Florida Health Research Day

Intravenous human amniotic mesenchymal stromal cells afford benefits in experimental cerebral palsy

Kaplan A, Tajiri N, Lau T, Kaneko Y, Parolini O, Borlongan C

2/2011 Poster - University of South Florida Health Research Day

Massive Inflammation in Macrovasculature During Formative Phase of Ischemic Stroke

Glover L, Gibrat C, Tajiri N, Lau T, Kaneko Y, Cicchetti F, Borlongan C