

CURRICULUM VITAE

Name: Adam Nathaniel Mamelak

Place of Birth: Cherry Hill, New Jersey

Education:

1985 Tufts University, Medford MA.
Degree: Bachelors of Science (Summa Cum Laude)
Major: Physics
Thesis: A thermal conductivity measurement system for low temperature solid state physics

1990 Harvard Medical School, Boston, MA.
Degree: Doctor of Medicine (M.D.)
Magna Cum Laude with Honors in a Special Field
Thesis: The desynchronized sleep generating network: a combined anatomical, physiological, and pharmacological analysis

Clinical Training:

1991 Intern in Surgery
University of California at San Francisco Medical Center and Affiliated Hospitals

1991-1995 Resident in Neurosurgery
University of California at San Francisco Medical Center and Affiliated Hospitals

1995-1996 Chief Resident in Neurological Surgery
University of California at San Francisco Medical Center and Affiliated Hospitals

Board Certification:

2000 Diplomate, American Board of Neurological Surgery
2010 Diplomate, American Board of Neurological Surgery (MOC)

Fellowship Training:

1994-1995 Epilepsy Research Laboratory
University of California at San Francisco,
San Francisco, CA.
Daniel H. Lowenstein, M.D.- Principal Investigator

1996-1997 Postdoctoral Scholar in Biology
Neuroscience Research Fellowship
California Institute of Technology & Huntington Medical Research Institutes, Pasadena, California
Scott Fraser, Ph.D. and Erin Schuman, Ph.D - Faculty Advisors

Research Positions:

- 1983 Research Assistant
University of Pennsylvania High Energy Physics Research
Group Fermi National Accelerator Laboratory and Argonne
National Laboratory, Batavia, Illinois.
- 1983-1984 Research Assistant
Department of Nuclear Medicine, University of Pennsylvania
School of Medicine, Philadelphia, PA.
Gerd Mueller, Ph.D. - Principal Investigator
- 1986-1990 Research Associate
Laboratory of Neurophysiology, Massachusetts Mental Health
Center Harvard Medical School, Boston, MA.
J. Allan Hobson, M.D. - Principal Investigator
- 1997 - Present Visiting Associate in Biology
California Institute of Technology
Pasadena, CA

Teaching and Supervisory Positions:

- 1990 Teaching Assistant
Biopsychology of waking, sleeping, and dreaming, psychology
E-1450. Harvard University Extension School
- 1996- 2007 Full-Time Teaching Faculty
Huntington Hospital Surgical Residency
Pasadena, CA
- 1996-2004 Assistant Professor and Section Head of Neursurgery
Department of General and Oncological Surgery
City of Hope National Medical Center
Duarte, CA
- 2004- 2005 Associate Professor and Section Head of Neursurgery
Department of General and Oncological Surgery
City of Hope National Medical Center
Duarte, CA
- 1997 Procotor, Summer Undergraduate Research Fellowship
California Institute of Technology
- 1997 - 2007 Neurosurgical Director
Epilepsy and Brain Mapping Program
Huntington Memorial Hospital
Pasadena, CA
- 1998-2000 Post-Doctoral Advisor to Robert Astur, PhD.
California Institute of Technology
- 2000—2001 Doctoral Advisor to Miguel Aromondes, DVM.
California Institute of Technology

2000	Faculty Instructor, Oral Neurosurgery Boards Review Course, American Association of Neurological Surgeons Professional Development Courses, Houston TX, Nov 5-7, 2000.
2005-Present	Co-Director, Pituitary Center. Cedar-Sinai Medical Center. Los Angeles, CA
2003—2008	Doctoral Advisor to Ueli Rutishauser California Institute of Technology
2005-Present	Attending Neurosurgeon, Departement of Neurosurgery, Cedars-Sinai Medical Center, Los Angeles, CA
2007- Present	Director, Minimally Invasive Intracranial Surgery, Cedars-Sinai Medical Center, Los Angeles, CA
2008- Present	Director, Funtional Neurosurgery, Cedars-Sinai Medical Center, Los Angeles, CA
2009-Present	Professor of Neurosurgery, Cedars-Sinai Medical Center, Los Angeles, CA
2011- Present	Core Member, Samuel Oschin Comprehensive Cancer Center, Cedars-Sinai Medical Center, Los Angeles, CA

Editorial Boards/ Reviewers

2005	<u>Select Reviews in Neuro-Oncology</u> , Editorial Board Member
2003-Present	Ad Hoc Reviewer, <u>Epilepsia</u> Ad Hoc Reviewer, <u>Neurology India</u> Ad Hoc Reviewer, <u>Journal of Nuclear Medicine</u> AdHoc Reviewer, <u>Pituitary</u>
2009-Present	AdHoc Reviewer, <u>Neurosurgery</u>
2009-Present	Ad Hoc Reviewer, <u>NeuroImage</u>
2009-Present	Contributing Reviewer, "Faculty of 1000"
2014- Present	Associate Editor, Fronteirs in Pituitary Endocrinology

Awards and Honors:

1981	National Merit Scholarship Program Semi-Finalist
1985	Phi Beta Kappa, Tufts University
1985	Benjamin G. Brown Scholarship for Scientific Excellence, Tufts University
1985	Victor Prather Class of 1927 Prize, Tufts University
1986	Harvard Medical School Summer Research Fellowship
1987	IEEE Conference on " Neural Information Processing Systems- Natural and Synthetic" Traveling Scholarship
1988	Joseph P. Collins Research Fellowship, Harvard Medical School
1988	Selected Presentation, Soma Weiss Undergraduate Assembly, Harvard Medical School
1990	Sirgay Sanger Prize for best research paper related to the field of Psychiatry, Harvard Medical School
1990	Magna Cum Laude, Harvard Medical School
1994	First Place, American College of Surgeons Committee on Trauma Residents Paper Competition, Northern California Chapter
1996	Pasadena Neurosciences Fellowship

1997	Young Clinician Investigator Award, American Association Neurological Surgeons
1997	Junior Investigator Award, American Epilepsy Society
1999	National Brain Tumor Foundation AANS/CNS Award for Best Translational Research by a Practicing Neurosurgeon.
2003-2014	“America’s Top Surgeons” Award, Consumer Research Council of America.
2005-2014	“America’s Top Doctors for Cancer” Award, Castle Connolly
2007	CSMC Medical Staff Development Program Selected Participant
2008-2014	“Super Doctors of Los Angeles”, Los Angeles Magazine
2008	“Top Doctors 2008”, Pasadena Magazine
2009	“Top Ten Abstract”- Section on Stereotactic and Functional Neurosurgery, Congress of Neurological Surgeons Annual Meeting
2011- Present	Los Angeles Magazine “Super Doctors”
2011- Present	Inclusion in “Best Doctors” referral service
2008-2010	“Patient’s Choice Award”, MDx Medical
2009-2014	“Compassionate Doctor” Recognition, Patients’ Choice Awards,
2010	Speacial Guest Speaker- 1st Internaitonal Conf. On Telescopic Neurosurgery, Valencia, Spain
2011	“Top Ten Abstract”- Section on Stereotactic and Functional Neurosurgery, Congress of Neurological Surgeons Annual Meeting

Societies and Organizations:

1986-1990	Massachusetts Medical Society- Student Member
1990-Present	Congress of Neurological Surgeons
1992-Present	AANS Section on Tumors
1992-Present	American Epilepsy Society
1994-Present	AANS Member
1996-2006	Los Angeles County Medical Association
1996-2006	California Association of Neurological Surgeons
1998-Present	Society of Neuro-Oncology
2000-2006	Los Angeles Surgical Society
2001- Present	Fellow -American College of Surgeons
2001-Present	Western Neurosurgical Society
2006-2007	The Endocrine Society
2007-Present	Pituitary Society
2007-Present	International Society of Pituitary Surgeons

Committees:

1994-1996	Residency Education Committee - Department of Neurosurgery, University of California San Francisco
1995	Sargeant at Arms Committee - Congress of Neurological Surgeons Annual Meeting
1996-2000	Trauma Advisory Committee- Huntington Memorial Hospital
1997-2000	Medical Quality Task Force – City of Hope National Medical Center

1998- 2003	National Comprehensive Cancer Network Clinical Guidelines Committee- CNS Task Force
2000-2003	American Epilepsy Society Technology Committee
2000- Present	American Epilepsy Society Neurosurgery Task Force
2001-2002	Critical Care Committee, Huntington Memorial Hospital
2001-Present	Society for Neuro-Oncology Site Selection Committee
2003-2005	Executive Board, AANS/CNS Joint Section on Tumors
2005-2007	Board of Directors. International Brain Mapping and Intra-operative Surgical Planning Symposium (IBMISP)
2005- 2010	Institutional Review Board, Cedars-Sinai Medical Center
2006-2012	Neurosurgery Performance Improvement Committee
2007	Epileptologist Search Committee, Dept of Neurology
2007	Outpatient Clinic Design Committee, CSMC
2008- 2011	CSMC Bio-Ethics Committee
2008- 2009	Physician CS-Link Advisory Committee
2007- 2009	Rosiglitazone in Cushing's Disease Clinical Trial Data Safety Monitoring Board. UCLA
2008- 2011	Epinano, Inc. Scientific Advisory Board Member
2010-Present	Neurology Performance Improvement Committee ex-officio member
2012-2013	Peer Review Panel Member, CSMC
2013-Present	TITAN Neurophysiology System Advisory Board Member, Neurolynx, Inc.
2013-Present	Co-founder, Teal Light Surgical LLC

Principal Clinical Staff Appointments:

1997	City of Hope National Medical Center, Duarte, CA Associate Professor- Dept. Neurosurgery
1996	Huntington Memorial Hospital, Pasadena, CA Neurosurgical Director, Epilepsy and Brain Mapping Program

2005

Cedars- Sinai Medical Center, Los Angeles, CA
 Professor of Neurosurgery
 Co-Director, Pituitary Center, Director of Functional
 Neurosurgery, Maxine Dunitz Neurosurgical Institute

Research Funding:

- \$100,000 *Two-photon laser-scanning microscopy of mossy fiber sprouting following seizures.*
 Sponsor: Pasadena Neurosciences Fellowship
 Principal Investigator. 7/96-7/97
- \$ 40,000 *Injury Induced Hippocampal Reorganization*
 Young Clinician Investigator Award: American Association of Neurological Surgeons.
 Principal Investigator: 7/97-7/98
- \$ 45,000 *Neuronal Correlates of Human Memory Formation.*
 Engineering Research Council Pilot Project Grant.
 California Institute of Technology. 7/98-7/99.
 Principal Investigator: (Co-Investigator Erin Schuman, Ph.D.)
- \$165,000 *Neuronal Correlates of Human Memory Formation.*
 Gimbel Foundation Discovery Award.
 Principal Investigator 9/98-9/01. (Co-Investigator Erin Schuman, Ph.D.)
- \$325,000 *Development of Spatio-Spectral Pulse Techniques for Whole Brain Spectroscopic Mapping of Brain Tumor Metabolites.*
 Kagan Foundation Grant, City of Hope National Medical Center
 Principal Investigator. 7/98-12/01.
- \$50,000 *Phase I Open label, Single-Dose Trial of ¹³¹I-TM-601 in patients with recurrent high-grade glioma*
 Sponsor: National Brain Tumor Foundation Best Translational Research by a Practicing Neurosurgeon Grant
 Principal Investigator: 2/02-6/04
- \$215,000 *Phase I Open label, Single-Dose Trial of ¹³¹I-TM-601 in patients with recurrent high-grade glioma*
 Sponsor: Transmolecular Industries, Inc
 Principal Investigator. 2/02-6/04.
- \$315,000 *Seizure Control and Quality of Life Following Vagus Nerve Stimulation in Patients with Developmental Disabilities Living in and ICF-DD Environment.*
 Sponsor: Cyberonics, Inc.
 Principal Investigator 7/00-7/03.
- \$750,000 R01 CA 103959-01A1: *Glioma Immunotherapy Using Genetically Engineered T-Cells.*

- Sponsor: NIH/NCI
Co-Principal Investigator: 4/01/04-10/31/05
- \$300,000 *A Human Cortical Prosthetic to Assist Severely Paralyzed Patients*
McKnight Neurosciences of Brain Disorders Award
Sponsor: McKnight Endowment Fund for Neuroscience
Co-Principal Investigator: 2/01/05-1/31/08
- \$250,000 R42CA117286-02: *Flourescence Lifetime Method for Guided Therapy of Brain Tumors.*
Sponsor: NIH.
Principal Investigator/Subcontractor 8/1/2006-7/31/2009.
- \$ 20,000 *Research Initiative for Imaging and Therapy of CNS Disease*
Sponsor: Cedars-Sinai Medical Center
Principal Investigator 9/1/08-8/31/10
- \$1,167,000 NSF 0926544 *“An Interdisciplinary Study of the Role of Consciousness on Decision Making.*
Sponsor: National Science Foundation
Consultant/Subcontractor 9/1/09- 8/31/14
- \$450,000 21B-1091570 *Intracranial study of free will and moral responsibility*
Sponsor: Tempelton Foundation/ Florida State University
Co-Investigator 9/01/11- 8/31/ 13

Other Clinical Trials:

- Prinicpal Investigator: IRB # **04000**:Phase III Randomized Evaluation Of Convection Enhanced Delivery of IL13-PE38QQR Compared to Gliadel Wafer with Survival Endpoint in Glioblastoma Multiforme Patients at First Recurrence (PRECISE). 2004-2005
Neopharm, Inc Industry Sponsor
- Principal Investigator: IRB # **3444** : Time Resolved Laser Flurescence for Intraoperative Brain tumor Identification. Co-Investigators: Wouter Schievink, John Yu, Ray Chu, Laura Marcu. 2006-2010
- Principal Investigator: IRB #**04086**: Phase II Open-label Multiple Dose Trial of Intracavitary ¹³¹I-TM-601 in Adult Patients with Recurrent High GradeGlioma. (Transmolecular Industries). 2005-2007
- Principle Investigator IACUC #**002054** Development of a Telescope-Based Operating Platform for Neurosurgery. Co-Investigators: Keith Black, MD, Moise Danielpour, MD, Geoege Berci, MD
- Co-Investigator: IRB #**04042**: The influence of culture and ethnicity on the quality of life of patients with malignant glioma-

PI: Connie Munoz, LCSW .2004-2007

- Co- Investigator: IRB #**0000**: A Phase I Trial of Tumor Associated Antigen-Pulsed Dendritic Cell Immunotherapy for Patients with Brain Stem Glioma and Glioblastoma
- Principle Investigator: IRB # **1130**: Assesment of a telescope-based system for Neurosurgery
- Principle Investigator: IRB #13360: A Phase /II trial of intravenously administered TM-601 for recurrent high grade glioma. Co-Investigators: Jerney Rudnick, MD, Surask Phuphanich, MD, John Yu MD, Keith Black, MD, Ray Chu, MD
- Co-Investigator: IRB #14469:: A Phase I/II trial of intravenously administered 131I- TM-601 for recurrent high grade glioma. Co-Investigators: Jerney Rudnick, MD, Surask Phuphanich, MD, John Yu MD, Keith Black, MD, Ray Chu, MD
- Co-Investigator: IRB#9829: A Study to Explore the Natural Course of Disease for Non-functioning Microadenomas and Non-functioning Macroadenomas. Principal Investigator: Shlomo Melmed MD
- Co-Investistigator: IRB #2873: Pituitary Tumor Surveillance: Pathogenetic Correlation Principal Investigator Shlomo Melmed, MD.
- Principle Investigator: IRB # 23995 Medtronic Activa Thrapy for Dystonia HDE. Co-Investigators: Michele Tagliati, MD, Evenginy Tsimirenov MD
- Principle Investigator: IRB # 24313 Medtronic Reclaim Activa Thrapy for Obsessive Compulsive Disorder (OCD) HDE. Co-Investigators: Robert Cohen MD, Jonathan Shaywitz, MD Michele Tagliati, MD
- Co-Investigator: IRB #23777:Implantable Neurostimulator for Treatment of Parkinson's Disease (INTREPID). Sponsor: Boston Scientific. Co-Investigator: Michele Tagliati, MD
- Principal Investigator: IRB # **3444** : Time Resolved Laser Flurescence for Intraoperative Brain tumor Identification. Co-Investigators: Pramod Butte, PhD, John Yu, MD, Ray Chu MD, Chirag Patel, MD.

Publications:

Original Reports:

Mamelak A. Quattrochi JJ, Hobson JA. A microcomputer-based system for automated collection and scoring of behavioral state in cats. Brain Research Bulletin 21(5):843-849, 1988.

- Mamelak AN**, Hobson JA. Nightcap: A home-based sleep monitoring system. Sleep 12(2):157-166,1989.
- Mamelak AN**, Hobson JA. Dream bizarreness as the cognitive correlate of altered neuronal discharge during REM sleep. Journal of Cognitive Neuroscience 1(3):201-222,1989.
- Quattrochi JJ, **Mamelak AN**, Madison RD, Macklis JD, Hobson JA. Mapping neuronal inputs to REM sleep induction sites with carbachol fluorescent microspheres. Science 245:984-986, 1989.
- Yamamoto KI, **Mamelak A**, Quattrochi JJ, Hobson JA. A cholinceptive desynchronized sleep induction zone in the anterodorsal pontine tegmentum: focus of the sensitive region. Neuroscience 39(2):279-293, 1990.
- Yamamoto KI, **Mamelak A**, Quattrochi JJ, Hobson JA. A cholinceptive desynchronized sleep induction zone in the anterodorsal pontine tegmentum: spontaneous and drug-induced neuronal discharge. Neuroscience 39(2):295-304, 1990.
- Mamelak AN**, Quattrochi JJ, Hobson JA. Automated staging of sleep using neural networks. Electroencephalography and Clinical Neurophysiology 79:52-61, 1991.
- Quattrochi JJ, **Mamelak AN**, Binder D, Williams J, Hobson JA. Dynamic suppression of REM sleep by parenteral administration of the serotoni-1 agonist Eltoprazine. Sleep 15(2):125-132, 1992.
- Quattrochi JJ, **Mamelak AN**, Binder D, Williams J, Hobson JA. Dose-related suppression of REM sleep and PGO waves by the serotonin-1 agonist Eltoprazine. Neuropsychopharmacology 8(1): 7-13, 1993.
- Sutton JP, **Mamelak AN**, Hobson JA. Modeling states of waking and sleeping. Psychiatric Annals 22(3):137-143,1992.
- Mamelak AN**, Mampalam TJ, Rosenblum ML. Brain abscesses: diagnosis and management. Hospital Medicine 28(9):22-38, 1992.
- Mamelak AN**, Kelly W, Davis RL, Rosenblum ML. Idiopathic hypertrophic cranial pachymeningitis: report of three cases and review of the literature. Journal of Neurosurgery 79: 270-276, 1993.
- Mamelak AN**, Barbaro NB, Walker JL, Laxer KD. Corpus callosotomy: a quantitative study of the extent of callosotomy, seizure control, and neuropsychological outcome. Journal of Neurosurgery 79: 688-695,1993.
- Mamelak AN**, Mampalam TJ, Obana WG, Rosenblum ML. Improved management of multiple brain abscesses: a combined surgical and medical approach. Neurosurgery 36 (1): 76-86, 1995.
- Mamelak AN**, Prados M, Obana WG, Cogen PH, Edwards MSB. Multicentric juvenile pilocytic astrocytoma: prevalence, risk factors for development, treatment option, and prognosis. Journal of Neurosurgery 81:24-30,1994.
- Mamelak AN**, Cogen PH, Barkovich AJ. "Filum Intermedium" sign: *In utero* spinal cord infarct with an extraspinal thecal sac. Journal of Neurosurgery 81: 941-946, 1994.

- Mamelak AN**, Obana WG, Flaherty JF, Rosenblum ML. Nocardial brain abscess: treatment strategies and factors influencing outcome. Neurosurgery 35(4):622-631, 1994.
- Mamelak AN**, Kelly W, Davis RL, Rosenblum ML. [letter] Idiopathic hypertrophic cranial pachymeningitis. Journal of Neurosurgery 80 (3): 597-598, 1994.
- Prados M, **Mamelak AN**. Metastasizing low grade glioma in children: redefining an old disease. Cancer 73 : 2671-2673, 1994.
- Mamelak AN**, Barbaro NB, Walker JL, Laxer KD. [letter] Callosotomy without disconnection? Journal of Neurosurgery 81: 328-329, 1994.
- Mamelak AN**, Pitts LH, Damron S. Predicting outcome from head trauma twenty-four hours after injury: a practical method with therapeutic implications. Journal of Trauma 41:341-352, 1996.
- Mamelak AN**, Dowd CF, Tyrell JB, Wilson CB. Venous angiography improves interpretation of inferior petrosal sinus and cavernous sinus sampling data for localizing ACTH-secreting adenomas. Journal of Clinical Endocrinology and Metabolism 81: 475-481, 1996.
- Deschler DG, Kaplan MJ, Gutin PG, **Mamelak A**, McDermott MW. Complications of anterior skull base surgery. Skull Base Surgery 6(2):113-118, 1996.
- Mamelak AN**, Prados M, Obana WG, Cogen PH, Edwards SB.[letter] Multicentric JPA and neurofibromatosis Journal of Neurosurgery 82: 175, 1995
- Mamelak AN**, Fishman R, Dillon WP, Wilson CB. [letter] Chiari I malformation associated with syringomyelia and bilateral subdural hematomas. Journal of Neurosurgery 83:, 1996.
- Mamelak AN**, Eggerding FA, Oh DS, Wilson E, Davis RL, Spitzer R, Hay JA, Caton WL: Fatal cyst formation following fetal mesencephalic allograft transplant for Parkinson's Disease. Journal of Neurosurgery 89:592-598,1998.
- Lin A, Bluml S, **Mamelak AN**. Efficacy of quantitative magnetic resonance spectroscopy for clinical decision making in patients with suspected brain tumors. J. Neuro-Oncology 45: 69-81,1999.
- Najbauer J, Schuman E, **Mamelak AN**. Sodium salycilate exacerbates neuronal injury and cerebral hemorrhage during kainic acid induced seizures. Neuroscience 99:1, 1-7-117, 2000.
- Mamelak AN**. [letter]. Cyst formation following fetal allograft; editorial response. Journal of Neurosurgery 90: yy, 1999.
- Aktari M, Bryant HC, **Mamelak AN**, Heller L, Shih JJ, Mandelkern M, Matlachov A, Ranken DM, Best ED, Sutherling WS. Conductivity of three-layered skull. Brain Topography 13:1, 1-13, 2000.
- Tyszka JM, **Mamelak AN**. Volumetric multi-shot echoplanar spectroscopic imaging. Magnetic Resonance Medicine 46(2): 219-227,2001.

- Shih CC, Weng Y, **Mamelak AN**, LeBon T, Hu M, Forman SJ. Identification of a candidate human neurohematopoietic stem cell population. Blood 98 (8): 2412-2422, 2001.
- Sutherling WW Akhtari M, , **Mamelak AN**, Mosher J, Arthur D, Sands S, Weiss P, Lopez N, DiMauro M, Flynn E. Dipole Localization of human induced afterdischarge seizure in simultaneous magnetoencephalography and electrocorticography. Brain Topography 14 (1): 101-116, 2001.
- Cullinane C, Chu DZ, **Mamelak AN**. Surgical Options for the Treatment of Cancer Pain. In: Issues in Cancer Pain: Models of Success. Cancer Practice: 10 (Supp 1), S21-S26, 2002.
- Astur RS, Taylor LB, **Mamelak AN**, Philpott L, Sutherland RJ. Humans with hippocampus damage display severe spatial memory impairments in a virtual Morris water task. Behavioural Brain Research 132(1):77-84, 2002.
- Mamelak AN**, Lopez N, Akhtari M., Sutherling WW. Magnetoencephalography directed surgery for neocortical epilepsy. Journal of Neurosurgery 97(4):859-867, 2002.
- Mamelak AN**, Withers GJ, Wang X Metastatic Choriocarcinoma to the Brain with co-existent viable intrauterine pregnancy. Journal of Neurosurgery 97(2):477-81, 2002.
- Tyszka JM, **Mamelak AN**. Quantification of B0 Homogeneity Variation with Head Pitch by Registered Three-Dimensional Field Mapping. Journal of Magnetic Resonance 159(2): 213-218, 2002.
- Akhtari M, Bryant HC, **Mamelak AN**, Flynn ER, Heller L, Shih JJ, Mandelkern M, Matlachov A, Ranken DM, Best ED, DiMauro MA, Lee RR, Sutherling WW. Conductivities of three-layer live human skull.. Brain Topography 14(3): 151-167, 2002.
- Shih CC, **Mamelak AN**, LeBon T, Forman SJ. Neurohematopoietic Stem Cells. Nature Medicine 8(6): 535-536, June 2002.
- Shih CC, Digusto D, **Mamelak A**, Lebron T, Forman SJ. Hematopoietic potential of neural stem cells: Plasticity v. heterogeneity. Leukemia & Lymphoma 43(12): 2263-2268, 2002.
- Akhtari M, Matlachov A, Merrifield W, Bryant HC, **Mamelak AN**, Flynn ER, Heller L, Shih JJ, Mandelkern M, , Ranken DM, Best ED, Lee RR, Sutherling WW. A model of frequency dependence of conductivities of the live human skull. Brain Topography 16(1): 39-55, 2003.
- Lau SK, Chen YY, Diamond DJ, **Mamelak AN**, Zaia JA, and Weiss LM. Lack of Association of Human Cytomegalovirus with human brain tumors . Modern Pathology 18(6) : 838-843, 2005.
- Hockaday D, Colcher D, Raubitschek A, Shien S, Fiveash J, **Mamelak AN**. Imaging of Glioma Extent with ¹³¹I-TM-601. Journal of Nuclear Medicine 46(4): 580-586. 2005

- Rizzuto DS, **Mamelak AN**, Sutherling WW, Andersen RA. Neural activity during the delayed reach task in humans. Nature Neuroscience 8 (4): 415-7, 2005
- Bhattacharya J, Edwards J, **Mamelak AN**, Schuman EM. Long-range temporal correlations in the spontaneous spiking of neurons in the hippocampal-amygdala complex of humans. Neuroscience 13:547-555, 2005.
- Huf R, **Mamelak A**, Kneedy-Cayem K. Vagus Nerve Stimulation Therapy: 2-Year Prospective Open-Label Study of 40 Subjects with Refractory Epilepsy, Low IQ, and Living in Long-Term Care Facilities. Epilepsy and Behavior 6(3): 417-423, 2005.
- Mamelak AN**. Loco-regional therapies for glioma. Oncology. 19 (14): 1803-1810, 2005
- Rutishauer U, , Schuman EM, **Mamelak AN** Online detection and sorting of extracellular recorded action potentials J. Neuroscience Methods Feb 17, 2006.
- Rutishauser U, **Mamelak A**, Schuman E. Single-cell representation of novelty and familiarity in the human hippocampus-amygdala complex requires task relevance Neuron 49(6): 805-813, 2006.
- Mamelak AN**, Rosenfeld S, Bucholz, R, Raubitschek A, Nabors LB, Fiveash JB, Shen S, Khazaeli MB, Colcher D, Liu A, Osman M, Guthrie B, Schade-Bijur S, Hablitz DM, Alvarez VL, Gonda MA, Phase I Single-Dose Study of Intracavitary Administered ¹³¹I-TM-601 in Adults with Recurrent High-Grade Glioma. Journal of Clinical Oncology 24(22) 3644-3649,2006.
- Bannykh SI, Fan X, **Mamelak A**. Psammomatoid ossifying fibroma. J. Neuro-Oncology. 82(1): 61-2, 2007.
- Mamelak AN**, Jacoby D. Target therapy of glioma with synthetic chlorotoxin. Expert Opinion on Drug Delivery, 4(2): 175-186, 2007.
- Merrifield WS, Sutherling WS, **Mamelak AN**. Statistical parameters of epileptiform brain activity differentiate frontal and temporal lobe patients. Epilepsy Research 74: 74-78, 2007.
- Sutherling WW, **Mamelak AN**, Thyerlei D, Maleeva T, Minizod Y, Philpott L, Lopez N. Influence of magnetic source imaging for planning intracranial EEG in epilepsy. Neurology 71(13): 990-996, 2008.
- Rutishauser U, Schuman EM, **Mamelak AN**. Activity of human hippocampal and amygdala neurons during retrieval of declarative memories. Proceedings of National Academy of Sciences (PNAS) 105:1, 329-334, 2008.
- Heller AC, **Mamelak AN**. Complication of epilepsy surgery in the first five years following training. Surgical Neurology , Jun;71(6):631-7, 2009. discussion 637. doi: 10.1016/j.surneu.2008.03.023

- Lin D, Najbauer J, Salvaterra PM, **Mamelak AN**, Barish ME; Garcia E, Metz M, Kendall SE, Bowers M, Kateb B; Kim SU, Johnson M, Aboody KS, Novel method for visualizing and modeling the spatial distribution of neural stem/progenitor cells within intracranial glioma. Neuroimage 37 (S1): S18-S26, 2008.
- Mamelak AN**, Danielpour M, Black KL, Hagike M, Berci G. A high definition television exoscope system for neurosurgery and other surgical disciplines. Surgical Innovations 15(1): 38-46, 2008.
- Munoz C, Juarez G, Munoz ML, Portnow J, Fineman I, Badie B, **Mamelak AN**, Ferrell B. The quality of life of patients with malignant gliomas and their caregivers. Social Work in Healthcare 47 (4): 455-477, 2008.
- Giustina A, Barkan A, Chanson P, Grossman A, Hoffman A, Ghigo E, Casanueva F, Colao A, Lamberts S, Sheppard M, Melmed S; Pituitary Society; European Neuroendocrine Association. (Listed among 66 collaborators). Guidelines for the treatment of growth hormone excess and growth hormone deficiency in adults. Journal of Endocrine Investigation, 31(9): 820-838, 2008.
- Mamelak AN**, Carmichael JC, Park P, Bonert HV, Fan X, Bannykh H. Atypical pituitary adenoma with malignant features: Case Report. Pituitary Oct 24, 2008.
- Mamelak AN**, Nobuto T, Berci G. Experience with a High Definition Exoscope in Clinical Neurosurgery. Neurosurgery 67:476-483, 2010.
- Rutishauser U, **Mamelak AN**, Ross B I and Schuman M E. Predictors of successful memory encoding in the human hippocampus and amygdala. Frontiers in Computational Neuroscience. Conference Abstract: Computational and systems neuroscience. 2009.
- Morgan RJ, Synold T, **Mamelak AN**. Lim D, Al-Kadhiimi Z, Twardowski P, Leong L, Chow W, Margolin K, Shibata S, Somlo G, Yen Y, Frankel P, Doroshow JH. A Phase I Trial of Tamoxifen, Carboplatin, and Topotecan in the Treatment of Recurrent or Refractory Brain or Spinal Cord Tumors. Cancer, Chemotherapy, Pharmacology. 66(5): 927-33, 2010.
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- Phuphanich S, Mamelak AN, Rudnick J, Chu R, Mazer M, Wang HQ, Serrano N, Francisco M, Singh M, Wheeler C. A phase I trial of tumor associated antigen-pulsed dendritic cell immunotherapy for patients with brain stem glioma and glioblastoma. American Society of Clinical Oncology Annual Meeting, June 9, 2009.
- Butte P, Mamelak AN, Banykh S, Black KL, Marcu L. Time-Resolved Fluorescence Spectroscopy For Intra-Operative Delineation Of Human Gliomas. Annual Meeting of the Society of NeuroOncology and Joint AANS/CNS Tumor Section, October 24-27, 2009.
- Rutishauser U, Mamelak AN, Ross IB, Schuman EM. Spike-field coherence correlates of successful memory encoding in the human hippocampus and amygdala. Society for Neuroscience Annual Meeting, 2009.
- Mamelak AN, Rutishauser U, Ross IB, Schuman EM. Correlation between single unit neuronal activity and field potential predicts successful memory encoding in the human hippocampus and amygdala. Neurosurgery 65(2): 499, 2009
- Fiveash, JB, Nabors LB, Badie B, Mamelak AN, Costello R, Archambault WT, O'Neill AM. A Randomized Phase II Study of Intracavitary ¹³¹I-TM601 in the Treatment of Recurrent Malignant Glioma. ASTRO Annual Meeting, 2009.
- Chung JM, Tsyuchia N, Tudusciuc O, Mamelak AN, Eliashiv D. Intracranial EEG Ictal Onset: Which Frequency, High or Low?. American Academy of Neurology Annual Meeting, 2010
- Fryman K, Zhao L, Nobuto T, Siddique K, Mamelak AN, Raissi S, Berci G, A New Compact High-Definition Video Microscope: A Paradigm Shift in Clinical and Research Microsurgery? International Pediatric Endosurgery Group Annual Meeting, 2010.
- Fukuoka H, Ben-Shlomo A, Mamelak AN, Zhou C, Mizutano J, Ren S-G, Bruyette D, Melmed S. Epidermal growth factor receptor (EGFR) signaling in Cushing's

disease: A novel pathway for STAT3 regulation of ACTH. Endocrine Society Annual Meeting, 2010.

Mamelak AN, Carmichael J, Bonert V, Melmed S. Endocrine outcomes following fully endoscopic transsphenoidal surgery for acromegaly. International Society of Pituitary Surgeons Annual Meeting, 2010.

Mamelak AN, King W. A survey of clinical practices for transsphenoidal surgery in 2010. International Society of Pituitary Surgeons Annual Meeting, 2010.

Mamelak AN, Owen TJ, Bruyette D. Man's best friend, Transsphenoidal surgery for canine Cushing's disease using a high definition exoscope. Methods and initial results. International Society of Pituitary Surgeons Annual Meeting, 2010

Mukerjee D, King W, Mamelak AN. A survey of clinical practices for transsphenoidal surgery in 2010. American Association of Neurological Surgeons Annual Meeting, 2011.

Drazin D, Shirzadi A, Birch K, Carmichael J, Bonert V, Danielpour M, Mamelak AN. Minimally Invasive Strategies for the Surgical Treatment of Suprasellar Tumors. American Association of Neurological Surgeons Annual Meeting, 2011.

Tsuchiya N, Chung J, Elaishiv D, Adolphs R, Mamelak A. Visual consciousness tracked with direct intracranial recording from primary visual cortex in humans. Nature Precedings, 2011

Rutishauser U, Tudusciuc O, Neumann D, Mamelak AN, Heller AC, Ross IB, Adolphs R. Single-neuron correlates of abnormal face processing by the amygdala in autism. International Meeting for Autism Research (IMFAR) Annual Meeting, May 12-14, 2011.

Mamelak AN, Rutishauser U, Tudusciuc O, Ross IB, Adolphs R. Single-unit Responses Selective for Whole Faces in the Human Amygdala. Congress of Neurological Surgeons Annual Meeting, October 2-6, 2011

Mamelak AN, Owens TJ, Fukuoka H, Ben Shlomo A, Melmed S, Bruyette D. Transsphenoidal Surgery for Cushing's Disease in Canines: Outcomes and Significance for Human Disease. Congress of Neurological Surgeons Annual Meeting, October 2-6, 2011.

Maoz U, Ye S, Mamelak A, Koch C. Online realtime action-content prediction in a competitive environment, an invasive human study. Computational and Systems Neuroscience (COSYNE) Annual Conference, February 25, 2012.

Wang S, Tudusciuc O, Mamelak AN, Ross IB, Adolphs R, Rutishauser U. Neurons in the human amygdala selective for perceived emotion. Society for Neuroscience Annual Meeting 2012.

- Maoz U, Ye S, Mamelak AN, Koch C. A System for Predicting Action Content On-Line and in Real Time before Action Onset in Humans – an Intracranial Study. Neural Information and Processing Systems (NIPS) 2012 Annual Meeting.
- Tudusciuc O, Wang S, Mamelak AN, Ross IB, Rutishauser U, Adolph R. Single-Unit responses to emotional stimuli in the amygdala. International Meeting for Autism Research 2013.
- Chenug T, Mamelak AN, Tagliati M. Bipolar Versus Monopolar Electrode Configuration in Thalamic DBS for Essential Tremor. American Academy of Neurology 65th Annual Meeting, 2013.
- Chenug T, Mamelak AN, Tagliati M. Bipolar Configuration Improves Thalamic DBS Outcome for Essential Tremor: Clinical Observations and Correlation with Volume of Tissue Activation. Movement Disorders Society Annual Meeting, 2013.
- Wu A, Mamelak AN. Persistent Trigeminal Artery During Expanded Endonasal Resection of an Anterior Skull Base Meningioma, American Rhinological Society Annual Meeting 2013.
- Mamelak AN, Schiraldi M, Nuno M, Carmichael J, Bonert HV, Melmed S. Influence of tumor volume and cavernous sinus invasion on hormone levels and remission following endoscopic transsphenoidal surgery for acromegaly. Pituitary Society Annual Meeting, June 13, 2013.
- Carmichael J, Bonert V, Cooper O, Mamelak AN. Serum Prolactin Levels are Unrelated to Pituitary Tumor Volume and Degree of Invasiveness In 114 subjects with Non-Functioning Pituitary Adenoma. Endocrine Society Annual Meeting, June 17, 2013.
- Schiraldi M, Nuno M, Carmichael J, Bonert HV, Melmed S, Mamelak AN. Influence of tumor volume and cavernous sinus invasion on hormone levels and remission following endoscopic transsphenoidal surgery for acromegaly. Congress of Neurological Surgeons Annual Meeting, 2013.
- Cheung T, Mamelak AN, Tagliati M. Visualizing the Volume of Tissue Activation in Deep Brain Stimulation for Parkinson's Disease and Dystonia. Movement Disorders Society Annual Meeting, 2013.
- Maoz U, Mudrik L, Ye S, Eliashiv D, Chung J, Ross I, Mamelak A, Koch C. Predicting deliberate decisions in a competitive environment from neural signals during the previous trial – an intracranial human study. Society for Neuroscience Annual Meeting, 2013.
- Ye S, Mamelak AN, Rutishauser U. The relationship between single human hippocampal and amygdala neurons and subjective memory strength. Society for Neuroscience Annual Meeting, 2013.

- Mamelak AN, Jeswani S, Bonert V, Carmichael J, Black KB. A comparison of expanded endonasal transphenoidal surgery and craniotomy for resection of craniopharyngioma. Lende Conference, University of Utah, Snowbird Utah, Feb 1, 2014.
- Wang S, Mamelak AN, Adolphs R, Rutishauser U. Neurons in the Human Medial Temporal Lobe Encode Target Saliency during visual search. Society for Neurosciences Annual Meeting, 2014
- Chung JM, Reed CM, Rutishauser U, Mamelak AN. Initial involvement of the posterior orbital gyrus in prolonged panic attack associated with simple partial status epilepticus on depth electrodes. American Epilepsy Society Annual Meeting, 2014
- Rutishauser U, Ye S, Koroma M, Chung J, Mamelak AN. Representation of memory strength and subjective confidence by individual neurons in the human medial temporal lobe. . American Epilepsy Society Annual Meeting, 2014
- Jeswani S, Nuno M, Wu A, Bonert VH, Carmichael JD, Black KL Mamelak AN. Comparative outcomes of craniotomy and expanded endonasal transphenoidal surgery for resection of craniopharyngioma: A single institution study. Congress of neurological Surgeons Annual Meeting, 2014
- Butte PV, Kittle D, Black KL, Mamelak AN. Surgical resection of gliomas with a novel near-infrared camera and fluorescent tumor-specific peptides: Preclinical results. Congress of neurological Surgeons Annual Meeting, 2014
- Birch K, Mamelak AN, Chung J, Rutishauser U. Sleep staging in epilepsy patients undergoing single unit recordings. Human Single Unit II Conference. Baltimore, MD, November 12-13, 2014.
- Fu Z, Mamelak AN, Ross I, Chung J, Adolphs R, Rutishauser U. Response error signaling by single neurons in human anterior cingulate cortex, amygdala and supplementary motor area. Human Single Unit II Conference. Baltimore, MD, November 12-13, 2014.
- Maoz U, Mudriuk L, Rutishauser U, Mamelak AN, Adolphs R, Koch C. Deliberate and random decisions at the causal role of consciousness. Human Single Unit II Conference. Baltimore, MD, November 12-13, 2014.
- Minxha J, Mosher CP, Mamelak AN, Gothard KM, Adolphs R, Rutishauser U. Fixation-aligned single cell responses in human and non-human primate amygdala. Human Single Unit II Conference. Baltimore, MD, November 12-13, 2014.
- Wang S, Mamelak AN, Adolphs R, Rutishauser U. Neurons in the Human Medial Temporal Lobe Encode Target Saliency during visual search. . Human Single Unit II Conference. Baltimore, MD, November 12-13, 2014.

Kamiński J, Mamelak AN, Birch K, Tagliati M, Rutishauser U. Single-neuron novelty responses in the human substantia nigra during recognition memory. Society for Neuroscience Annual Meeting. Washington DC, November 14-18, 2014.

Bonert V, Carmichael J, Mamelak A, Broder MS, Neary MP, Chang E, Ludlam WH, Cherepanov D. Biochemical control and comorbidities in a US acromegaly registry. Endocrine Society Annual Meeting, 2015.

Carmichael J, Mamelak A, Broder MS, Neary MP, Chang E, Cherepanov , Ludlam WH, Bonert V. Treatment patterns among US acromegaly patients in a prospective registry. International Pituitary Society Annual Meeting, San Diego CA, May 3-4, 2015.

Carmichael J, Mamelak A, Broder MS, Neary MP, Chang, Cherepanov , Ludlam WH, Bonert V. Potential factors related to treatment changes in acromegaly patients: Analysis of a US prospective registry. International Pituitary Society Annual Meeting, San Diego CA, May 3-4, 2015

Invited Addresses:

"Modelling the neuronal basis of dreaming with computational neural networks" Division of Applied Sciences Seminar, Harvard University, Cambridge, March, 1989.

"Coagulopathy and intracranial hemorrhage". Neurology/Neurosurgery conference, Veterans Administration Medical Center, San Francisco, November, 1990.

"A neuroscience approach to dreams and dreaming" Bay Area Association of Neuroscience Nurses, University of California at San Francisco, November, 1991.

"A quantitative assay of corpus callosum size and extent of callosotomy in relation to seizure control and neuropsychological outcome". Joint Section on Stereotaxic and Functional Neurosurgery, Annual Meeting of Congress of Neurological Surgeons, Washington, D.C., October 31- November 4, 1992.

"Multicentric juvenile pilocytic astrocytoma" Annual Meeting of the Pediatric Section of the American Association of Neurological Surgeons. Vancouver, B.C., December 6-9, 1992.

" Predicting outcome from head trauma twenty-four hours after injury: a practical method with thereuputic implications. " Joint Section on Neurotrauma and Critical Care, Annual Meeting of Congress of Neurological Surgeons, Chicago, Ill. October 1-6, 1994.

"Corpus Callosotomy" Epilepsy Lecture Series, University of California San Francisco, San Francisco, January 4, 1995.

- “Neurosurgical Management of Parkinson’s Disease.” Grand Rounds, Henry Ford Medical Center, Detroit MI. January 11, 1995.
- “Functional reorganization of the hippocampus following injury: parallels between development and epileptogenesis.” Grand Rounds, University of Chicago Medical Center, Chicago, IL. July 26, 1995.
- “Seizures induce gene expression which may promote axonal guidance” California Institute of Technology, Pasadena, CA. January 16, 1996.
- “Development of a sprouting-specific cDNA library by subtractive hybridization” Annual Meeting of the American Epilepsy Society, Baltimore, MD, December 4, 1995.
- “Mossy fiber sprouting following seizures is dependent on reactivation of developmental genetic programs” Medical College of Pennsylvania, Philadelphia, PA. December 6, 1995.
- “Corpus Callosotomy” Epilepsy Lecture Series, University of California San Francisco, San Francisco, June 7, 1996.
- “Predicting Outcome from Head Trauma Twenty-Four Hours after Injury. Pediatric Rounds. Huntington Memorial Hospital, Pasadena, CA. September 23, 1996.
- “Neurosurgery and Neuroimaging” Biological Imaging Center Weekly Lab Meeting, California Institute of Technology. Pasadena, CA, October 23, 1996.
- “Lights, Camera, Axon: Two-photon imaging of mossy fiber sprouting following injury” City of Hope National Medical Center Neurosciences Seminar. March 20, 1997.
- “Neuro-assessment in the ICU”. Huntington Memorial Hospital Critical Care Update for Nurses, Pasadena, CA. June 16, 1997.
- “Management of Children with Brain Tumors”. City of Hope National Medical Center, Duarte, CA. October 20 and November 20, 1997.
- “Neurosurgical Issues in the Management of Childhood Brain Tumors”. Pediatric Grand Rounds, Huntington Memorial Hospital, Pasadena, CA. March 25, 1998.
- “Epilepsy: Clinical and research aspects”. California Institute of Technology, Pasadena, CA. March 26, 1998.
- “Vagus Nerve Stimulation for Epilepsy”. Epilepsy: Focus on the Patient Symposium. Pasadena, Ca. March 19, 1998.
- “Recent Advances in the Management of Cerebral Metastases” Oncology Update ’98. City of Hope National Medical Center, Duarte, CA. July 21, 1998.
- “Management of Cerebral Metastases” Grand Rounds, St. Joseph’s Hospital, Burbank, CA. November 24, 1998.
- “Epilepsy and Brain Mapping Techniques” Medical Grand Rounds.

Huntington Memorial Hospital, Pasadena, CA January 8, 1999.

“Recent Advances in the Management of Cerebral Metastases. ALCASE Lung Cancer Symposium. City of Hope National Medical Center, Duarte, CA. January 22, 1999.

“Treatment Options for Cerebral Metastases” Committee on Cancer Symposium. Huntington Memorial Hospital, Pasadena, CA. August 18, 1999.

“Advances in Brain Mapping Techniques” Medical Grand Rounds, Monterey Park Hospital, Monterey Park, CA. November 12, 1999.

“Rapid whole brain metabolite specific MRI: preliminary results” American Epilepsy Society Annual Meeting, Orlando FL, December 6, 1999.

“Optimizing strategies for brain tumor surgery” Huntington Memorial Hospital Medical.Surgical Grand Rounds, Pasadena, CA,. March 16, 2000.

“Glioblastoma Multiforme” National Brain Tumor Foundation Biennial Conference. Los Angeles, CA. April 1, 2000.

“Brain Mapping” National Brain Tumor Foundation Biennial Conference. Los Angeles, April 2 ,2000.

“Non-invasive Methods for Cortical Localization” Legacy Foundation, University Club, Pasadena CA, October 12, 2000.

“Cortical Mapping”. Oncology/Hematology Fellow Lecture Series. City of Hope National Medical Center, April 9, 2001.

“Primary Brain Tumors: Minimize Your Risks – Maximize your options”. “Ask the Experts” Lecture Series. Cooper Auditorium, City of Hope National Medical Center. April 19, 2001.

“Neurosurgeon as Cartographer”. Advances in Brain Tumors for the 21st Century Symposium. City of Hope National Medical Center. September 9, 2001.

“Brain Mapping” Harbor/UCLA Dept of Neurology Grand Rounds, January 4, 2002.

“Cortical Mapping”. Oncology/Hematology Fellow Lecture Series. City of Hope National Medical Center, March 30, 2002.

“Neurosurgeon as Cartographer” Grey Matters: Perception, Intention, Memory, and Dysfunction. California Institute of Technology BioForum 2002. April 25, 2002.

“Minimally Invasive Advances in Neurosurgery”. Recent Advances in Neuro-Oncology. Laguna Niguel, December 8-9, 2003.

“Molecular Therapies for Brain Tumors”. Update in Neuro-Oncology. City of Hope Cancer Center CME series. Duarte, Ca. December 7, 2004

- “Brain Tumors and Stem Cells”. Graduate Course in Stem Cell Biology. City of Hope Medical Center and Beckman Research Institute. January 26, 2005.
- “Minimally Invasive Surgery of Brain Tumors”. Medical Grand Rounds. Tarzana Regional Medical Center. July 12, 2005
- “Magnetoencephalography Directed Surgery for Neocortical Epilepsy”. International Brain Mapping and Intraoperative Surgical Planning Symposium, Pasadena CA. November 17-19, 2005.
- “Recent Advances in Pituitary Surgery” Endocrinology Grand Rounds, Cedars-Sinai Medical Center, Feb 8, 2006
- “Brain Mapping and Surgical Epilepsy” Neurology Nurses Educational Conference, CSMC, August 14, 2006.
- “Magnetoencephalography: Present and Future Applications”. International Brain Mapping and Intraoperative Surgical Planning Society Annual Meeting, Sept 5, 2006.
- “Now where did I leave my keys?: The neurophysiology of human memory” Neurology Grand Rounds. Cedars-Sinai Medical Center. February 2, 2007.
- “Pituitary Surgery Update”. Endocrinology and Metabolism Update 2007. Cedar-Sinai Medical Center. Four Season Hotel, Los Angeles, CA March 14, 2007.
- “Minimally Invasive Methods in Pituitary Surgery” Grand Rounds. Brotmann Medical Center, Culver City, CA March 22, 2007.
- “Anticonvulsant Use in Neurosurgery” CSMC Resident Education Lectures, November 11, 2006.
- “Neuroendocrinology” CSMC Resident Education Lectures, March 8, 2007.
- “Pituitary Surgery: Methods and Indications”. Dept of Endocrinology, West Los Angeles Veterans Administration Hospital. July 13, 2007.
- “Epilepsy Surgery” CSMC Resident Lecture Series. Cedars-Sinai Medical Center, Los Angeles, CA. July 27, 2007.
- “Comparison of Endoscopic Endonasal and Endoscopic Microscopic Transsphenoidal Pituitary Surgery”. International Society of Pituitary Surgeons Annual Meeting, Vienna Austria, Sept 9, 2007.
- “Surgical Outcomes for Pituitary Surgery 2005-2007: Results of a Multi-Disciplinary Effort.” Endocrine Grand Rounds, Cedars-Sinai Medical Center, October 29, 2007.

- “Pituitary Surgery: A critical appraisal of minimally invasive techniques”.
Neurosurgery Grand Rounds, Cedars-Sinai Medical Center, November 28, 2007.
- “Giant Pituitary Adenomas” Multidisciplinary Pituitary Conference, Cedars-Sinai Medical Center, March 25, 2008.
- “Pituitary Surgery” Medicine Grand Rounds, El Centro Medical Center, El Centro, CA, May 18, 2008.
- “Surgical Management of Pituitary Tumors”. California Chapter of American Association of Clinical Endocrinologists Annual Meeting, Costa Mesa CA, November 8-9, 2008.
- “Pituitary Surgery in 2009” Cedars-Sinai Endocrinology and Metabolism Update Course. Los Angeles, CA, May 5, 2009.
- “Stereotactic Neurosurgery” Resident Didactic Lecture, Cedars-Sinai medical center, August 29, 2009.
- “Use of the VITOM in human and canine neurosurgery” Presentation to Karl Storz Endoscopy international marketing unit, World Federation of Neurological Surgeons Meeting, Boston MA, Sept 9, 2009.
- “Man’s Best Friend: Canine Cushing’s disease and Its Relevance to Human Illness”. Endocrine Grand Rounds. Cedars-Sinai Medical Center. October 21, 2009.
- “Pituitary Surgery in Humans and Its Relevance to Veterinary Medicine” American College of Veterinary Internal Medicine Annual Meeting, Anaheim CA, May 7, 2010”
- “Minimally Invasive Surgery for Brain Tumors”. Cedars-Sinai Brainstorms patient conference, Los Angeles, CA July 10, 2010
- “Endoscopic Pituitary Surgery: Indications, Methods, and Results”. West Los Angeles VA and Greater Los Angeles Area Endocrine Fellowship Grand Rounds. West Los Angeles VA Hospital, August 6, 2010.
- “Seizure Management” Cedars-Sinai Neurosurgical Resident Didactic Lecture Series. August 20, 2010.
- “Minimally Invasive Strategies for Brain Tumors” Brainstorm patient conference, Cedars-Sinai Medical Center, August 12, 2010.
- “A Novel High Definition Video Telescope (VITOM) for neurosurgery and other microsurgical disciplines” 1st International Course on Telescopic Neurosurgery, Valencia, Spain Nov 13-15, 2010.

- “Pituitary Tumors” Neurosurgical Institute “Lunch and Learn “ Sessions. Cedars-Sinai Medical Center, Los Angeles, CA February 7, 2011.
- “Craniopharyngioma in 2011: Technology V. Biology”. Endocrine Grand Rounds. Cedars-Sinai Medical Center. March 1, 2011.
- “ When is a Headache Not Just a Headache” Maloney Vision Insititue Annual Meeting. Los Angeles, CA April 17, 2011
- “Deep Brain Stimulation for Parkinson’s Disease”. Maloney Vision Insititue Annual Meeting. Los Angeles, CA April 17, 2011
- “Endoscopic Pituitary Surgery” Maloney Vision Insititue Annual Meeting. Los Angeles, CA April 17, 2011
- “Pituitary Tumors” Outsmarting Brain Tumors Patient Conference. Los Angeles, CA May 12, 2011
- “Pituitary Surgery” Cedars-Sinai Endocrine and Metobalism Update 2011 Course. Los Angeles, CA May 25, 2011
- “Deep Brain Stimulation for Parkinson’s Disease”. Cedars-Sinae Upate is Neurology and Neurosurgery Annual Course. Palm Springs, CA June 4 2011
- “ Endoscopic Pituitary Surgery” Dept. of Neurosurgery Grand Rounds, Haddasah Medical Center, Hebrew University, Jerusalem, Israel. September 8, 2011.
- “Pituitary Tumors” Neurology and Neurosurgery Update Course, Bakersfield Memorial Hospital, Bakersfiled, CA. October 27, 2011.
- “Surgical Treatment of Dystonia” Dystonia Support Group of San Diego, Alvarado Hospital, San Digeo CA January 21,2012.
- “ Surgial Options for the Treatment of Dystonia” Dystonia Community Forum, Cedars-Sinai Medical Center, Los Angeles CA February 11, 2012.
- “ Surgical Management o Cushing’s Disease” West Los Angeles VA Hospital Enocrine Grand Rounds, Los Angeles, CA March 28, 2012.
- “Don’t Just Do Something- Sit There!/: Conservative Management of Pituitary Adenomas”. Cedars Sinai Medical Center Endocrine Grand Rounds, April 6, 2012
- “ Single-Surgeon Endoscopic Transsphenoidal Surgery: Rationale based on outcomes in 300 consecutive cases”. Internatinal Society of Pituitary Surgeons Bi-Annual Meeting. Montreal , Quebec. June 21, 2012.

- “Pituitary Surgery- Update for Patients” Pituitary Patient Awareness Day, Huntington Beach , CA. April 7, 2013.
- “Pituitary Surgery Physician Update” Advances in Neurology and Neurosurgery 2013: Treatment and Management of Pituitary Disease. Huntington Beach , CA. April 7, 2013.
- “Pituitary Surgery” Neurology and Neurosurgery Update 2013. Santa Barbara , CA. April 19, 2013.
- “DBS Surgery” Neurology and Neurosurgery Update 2013. Santa Barbara , CA. April 19, 2013.
- “Pituitary Surgery for Acromegaly”. Genetech Acromegaly Preceptor Workshop. Los Angeles, CA August 22, 2013.
- “Pituitary Surgery Update”. Latin American Knowledge Network Seminar. Los Angeles, CA October 9, 2013.
- “Epilepsy Surgery”. Cedars-Sinai Neurology and Neurosurgery Update Course. Riviera Resort, Palm Springs, Ca. November 5, 2013.
- “Surgical Management of Essential Tremor” International Essential Tremor Foundation Patient Education Symposium. Cedars- Sinai Medical Center, Los Angeles Ca. November 9, 2013
- “Neuromodulation of the Brain: Current Concepts and Future Directions” Neurolog Grand Rounds. Cedars-Sinai Medical Center, Los Angeles, CA November 21, 2013.
- “The History and Evolution of Pituitary Surgery”. Endocrine Grand Rounds, Cedars-Sinai Medical center, Los Angeles, CA. January 14, 2014
- “Man’s Best Friend”: Transsphenoidal Pituitary Surgery for Cushing’s disease in Man and Dog” Invited Lecture for Symposium “The Concept of One Medicine : Comparative Aspects of Cushing;s disease in man and dogs.” Annual Meeting of the Endocrine Society, Chicago , IL. June 24 2014.
- “ Pituitary Surgery Physician Update” Advances in Neurology and Neurosurgery 2014: Treatment and Management of Pituitary Disease. Huntington Beach , CA. September 28, 2014
- “Epilepsy Surgery” Quest for Healing, Health, and Hope Patient Symposium. Cedars-Sinai Medical Center, November 1, 2014.

Related Academic Achievements/ Appointments:

- 1989 United States Patent No. 4,836,219. Electronic Sleep Headgear.
Inventors: Mamelak AN, Hobson JA, Helfand R, Lavie P.

- 1998 Clinical Trials Advisory Board Member, Transmolecular Industries, Birmingham, Ala.
- 1999 Ad Hoc Medical Reviewer for ABC Medical News Correspondent Robert Sergel
- 2008 Community of Experts, Reuter's Insight Advisory Panel
- 2008 Scientific Advisory Board Member, Epinano Inc, Sunnyvale, CA
- 2011 Consultant, Karl Storz Endoscopy
- 2009 Consultant, VCA Wes Los Angeles Animal Hospital
- 2010 Consultant, GLC Council, Gerson Lerhman Group
- 2011 Invited Participant, Acromegaly Workshop, Sponsored by Ipsen Pharmacuetical. Los Angeles, CA May 13-14, 2011
- 2014 US Patent Filing 61/814,955: Novel method for simultaneous detection and imaging of visible and infrared light from fluorophores Butte P. and Mamelak AN.
- 2015 Co-founder Teal Light Surgical, LLC