

## CURRICULUM VITAE

**Name:** Ziad Nahas, M.D., M.S.C.R.

**Citizenship:** USA

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**H-index:** 36

### **Education** (*Beginning with Baccalaureate Degree*):

Institution/Location	Years	Degree/Date	Field of Study
College Notre Dame de Jamhour/ Beirut –Lebanon	1985	French Baccalaureate /1985	Natural Sciences
College Notre Dame de Jamhour, Beirut –Lebanon	1985	B.S./1985	Experimental Sciences
Saint Joseph University-Medical School, Beirut-Lebanon B.P. 11-5076	1985-1992	M.D./1992	Medicine
Medical University of South Carolina, Biometry Department	2003-2005	M.S.C.R./2005	Clinical Science Research

### **Internship:** (*Place*)

	(Dates)
Hopital de la Croix Jel ElDib, Lebanon	07/1992 - 10/1992
Hopital Charles-Foix, Unite de Psychogeriatric; Paris France	11/1992 - 04/1993
Intern in Psychiatry L'Elan, Paris, France	12/1992 - 06/1993

### **Residencies or Post Doctoral:** (*Place*)

	(Dates)
Resident in Psychiatry, Baylor College of Medicine, Houston, TX, USA	12/1993 – 06/1997
Research Fellow in Neuroimaging & Psychopharmacology, Medical University of South Carolina, Charleston, SC, USA	07/1997 – 06/1999

### **Specialty/Board Certification:**

Psychiatry /Written in 1998 Oral in 1999

### **Licensure:**

SC License 1997

### **Military Service:**

N/A

### **Faculty Appointments** (*Begin with initial appointment*):

Years	Rank	Institution	Department
07/1999 - 06/2000	Research Associate/ Medical Director	Medical University of South Carolina	Brain Stimulation Laboratory Department of Psychiatry
07/2000 - 06/2005	Assistant Professor/ Medical Director	Medical University of South Carolina	Brain Stimulation Laboratory Department of Psychiatry
07/2005 – present	Associate Professor/ Medical Director Director of Mood Disorders Program	Medical University of South Carolina	Brain Stimulation Laboratory Department of Psychiatry

01/2007 – present	Associate Professor/ with Tenure Director of Mood Disorders Program Medical Director of Brain Stimulation Laboratory	Medical University of South Carolina	Brain Stimulation Laboratory Department of Psychiatry
01/2008 – present	Adjunct Associate Professor	Medical University of South Carolina	Department of Physiology and Neuroscience

### **Administrative Appointments:**

Years	Position	Institution	Department
07/2005 – present	Director	Medical University of South Carolina	Mood Disorders Program Department of Psychiatry
07/2005 – present	Director	Medical University of South Carolina	Mood Disorders Clinic Institute of Psychiatry

### **Other Experience:**

Years	Position	Institution	Department
07/2007 – present	Member, Research Executive Committee	Medical University of South Carolina	Department of Psychiatry
07/2008 – present	Chair, Grand Rounds Committee	Medical University of South Carolina	Department of Psychiatry

### **Hospital Appointments/Privileges:**

07/1999-present	Active	Medical University of South Carolina	Full Privileges
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### **Membership in professional/scientific societies (include offices held):**

#### *National Societies*

American College of Neuropsychopharmacology  
 American Psychiatric Association  
 American Neuropsychiatric Association  
 Society of Biological Psychiatry  
 International Society of Transcranial Magnetic Stimulation  
 Neuro-psychoanalysis Society

#### *Local Societies*

South Carolina Psychiatric Association

### **Editorial Positions:**

Editor-in-chief  
 Frontiers in Neuropsychiatric Imaging and Stimulation  
 Editor  
 Brain Stimulation journal

### **Extramural Grants/award amount (current and past):**

As Principal Investigator (% effort)

- PI: **Z Nahas**, September 2010 – August 2012 NARSAD Independent Investigator Award **“Safety and Efficacy Study of Epidural Prefrontal Cortical Stimulation (EpCS) in Severe Treatment-Resistant Depression.”** Goal: Extend the investigation of epidural medial prefrontal cortical stimulation to treat depressive symptoms.
- PI: **Z Nahas**, September 2010 – **“Focally electrically administered seizure therapy (FEAST) for Depression.”** Goal: First time application of a new form of ECT with more focal induction of seizure in prefrontal cortex to treat depression.
- Mentor: **Z Nahas** (5% Effort) 5 R25 DA020537-03 Brady (PI) May 2006- April 2011 NIH/NIDA **“Drug Abuse Training Research (DART) Program”** Goal: The DART program is designed to attract, train, and advance physicians’ careers as independent investigators in patient-oriented drug abuse research.
- PI: **Z Nahas**, (5% Effort) July 2009 – June 2010 SCTR Discovery Grant **“Deep Brain Stimulation mediated interactions between antiparkinsonian drugs and ABCB1/P-glycoprotein.”** Goal: To investigate the effects of DBS to the subthalamic nucleus (STh-DBS) and their impact on P-gp endogenous BBB transporters’ expression in the basal ganglia and the CNS disposition of l-dopa.
- PI: **Z Nahas**, January 2009 – December 2010 Hope for Depression Research Foundation **“Using neuroimaging, quantitative EEG and genetics to diagnose depression.”** Goal: Use multi-model approach to build a predictive model for diagnosing depression.
- PI: **Z Nahas**, September 2006 – August 2008 (with 1 year no cost extension) NARSAD Independent Investigator Award **“A Pilot Safety and Efficacy Study of Epidural Prefrontal Cortical Stimulation (EpCS) in Severe Treatment-Resistant Unipolar Depression.”** Goal: First time investigation of epidural medial prefrontal cortical stimulation to treat depressive symptoms.
- PI: **Z Nahas**, Jan 2007 – Dec 2008 (with 6 month no cost extension) Hope for Depression Research Foundation **“Oxytocin fMRI in Depression.”** Goal: First time investigation of intra-nasal oxytocin for treating depression and investigating the pharmacologic modulation of attachment neuronal network.
- PI: **Z Nahas**, (75% Effort) July 2005- June 2009 NIMH K08 MH070615-01A1 (no cost extension until June 2010) **“DBS and Rodent Antidepressant- Screen Models”**. Goal: Career development award to develop to begin the testing out deep brain stimulation in simplified circuits of stress regulation in animal models of depression to later bridge with clinical research.
- PI: **Z Nahas**, (Declined PI status so to be eligible for K08 in July 05 – see above) PI: **MS George** July 2004- June 2008 NIMH R01 MH069896-01 A1 **“Optimization of TMS for Depression”**. Goal: Acute and long-term clinical efficacy of TMS as an antidepressant tool – Remission is primary outcome measure.
- PI: **Z Nahas**. (40% Effort) Dec 2002 – Nov 2005. NIMH R21 MH065630-01 **“Interleaved Prefrontal TMSfMRI in Schizophrenia”** Goal: To assess prefrontal cortical excitability with TMS in schizophrenia patients compared to controls.
- PI: **Z Nahas**. Dec 2003 – 2007. Neuronetics Inc. **“A Randomized Parallel-Group, Sham-Controlled, Multicenter Study To Evaluate the Efficacy and Safety of Repetitive Transcranial Magnetic Stimulation (RTMS) in Patients with Major Depression”**. Goal: 3 studies to evaluate the antidepressant effects and clinical relevance of acute and maintenance TMS in Major Depression.
- PI: **Z Nahas**. Dec 2003 – Nov 2005. Eli Lilly. **“Olanzapine for the treatment of Borderline Personality Disorder: A Multisite Treatment Trial”**. A 60 sites international clinical treatment trial to explore the efficacy of olanzapine in treating borderline personality disorders symptoms

- PI: **Z Nahas** 3/1/2000 - 04/30/2004 Neotonus, Inc. **rTMS for Treatment of Depression in Schizophrenia**. Goal: To investigate if prefrontal rTMS can treat depressive symptoms in schizophrenic patients
- PI: **Z Nahas** 7/98- 7/2000 SmithKline Beecham **"Emotional Incontinence and It's Response To Paroxetine"** To use perfusion functional MRI in emotional incontinent patient before and after paroxetine to understand their response.
- PI: **Z Nahas** 07/96-06/97 Unfunded **"Depression in demented patients"**. To study the presentation of depression in dementia in an inpatient setting.
- PI: **Z Nahas** 07/96-06/97 Unfunded **"Personality disorders in dementia"**. Study the relationship between premorbid personality and the caregiver burden in the demented patient.
- PI: **Z Nahas** 10/1/98 -07/00 Un-sponsored **"rTMS as a probe in Negative Symptoms of Schizophrenia"**. Goal: Determine the effect of left prefrontal rTMS on negative symptoms in schizophrenia.
- Co-PI: **Z Nahas**.10/1/99 – 06/02 Un-sponsored **"rTMS for Depression in Subjects between age of 55 and 75"**. Goal: To determine the effect of left prefrontal rTMS on depressive symptoms in subjects between the age of 55 and 75.

As Co-Investigator (% effort)

GRANTS AS CO-INVESTIGATOR FROM 2005 ARE NOT LISTED BELOW.

- PI: Mark S. George, **Co-PI: Z Nahas**, June 1, 2002 – Dec 30, 2004 Defense Advanced Research Projects Agency Title: **Creating a Man-Portable Transcranial Magnetic Stimulation (TMS) System to Improve War-Fighter Performance**. Goal: To design and build a man-portable TMS system to improve soldier performance, and to determine the use parameters to maximally boost cognitive performance with TMS.
- PI: DE Bohning **Co-I: Z Nahas** 5/99 – 02/2006 Cyberonics, Inc **"fMRI of Vagus Nerve Stimulation in Patients with Depression"** Goal: A series of studies to determine the brain effects of vagus nerve stimulation (serial scanning or parametric studies) will be informative of its mechanisms of action.
- PI: MS George **Co-I: Z Nahas** 5/98-02/2006 Cyberonics, Inc **"A Study of Vagus Nerve Stimulation in Patients with Depression (D-01): A Pilot and Efficacy Study"** Goal: To determine if vagus nerve stimulation in depression will result in clinically significant symptomatic response.
- PI: MS George, **Co-I: Z Nahas**, 06/01/2000 - 02/2006 Cyberonics, Inc. **"A Study of Vagus Nerve Stimulation in Patients with Depression (D-02): Multicenter Study"** Goal: To test the NCP® system in treatment resistant depressed patients.
- PI: MS George, **Co-I: Z Nahas** 7/00-Present Cyberonics, Inc. **"A Study of Vagus Nerve Stimulation in Patients with Anxiety Disorder (A-01): Open Study"** Goal: To investigate if VNS therapy can treat anxiety symptoms like panic, post-traumatic disorder and obsessive compulsive disorder
- PI: MS George **Co-I: Z Nahas** 12/00-11/03 NINDS R01 NS40956-01 **"Mood effects of Deep Brain Stimulation in Parkinson Disease. A Combined DBS and MRI study"** Goal: To use BOLD fMRI to help inform and narrow parameters used in DBS to modulate mood and possibly treat depression.
- PI: MS George, Co-I: **Z Nahas** 1/00-1/03 Yale sub-contract: Swiss Foundation for Research in Borderline Personality Disorders **"Using Interleaved TMS/fMRI to Understand Brain Circuits Involved in Borderline Personality Disorder"** : To determine whether mood effects of DBS in PD involve activation of the anterior paralimbic circuit, and whether stimulation at sites that activate this circuit have therapeutic antidepressant effects.

- PI: Sallee, FR, Co-I: **Nahas Z.** /8/1/97 - 7/31/2002/ NIMH R01 MH46673-07 **"Non-neuroleptic treatments of childhood Tourette's Syndrome."** To reduce the ticks in Tourettes patients with the use of rTMS.
- PI: MS George, Co-I: **Z Nahas** 7/98 - 6/00 / Stanley Foundation 1998 Research Awards **"Prefrontal Transcranial Magnetic Stimulation for the Treatment of Depression in Bipolar Affective Disorder: A Pilot Study of Acute Efficacy and Preventive Maintenance."** To define rTMS as a effective and safe treatment for acute BPAD depression and the weekly maintenance will decrease the relapse rate of BPAD depression.
- PI: MS George, Co-I: **Z Nahas** 07/01/96 - 06/30/98 Stanley Foundation / 1996 Research Awards **"Serial fMRI Perfusion Scans in Rapid-cycling Bipolar Affective Disorder Subjects: A pilot study using a novel non-invasive tool to longitudinally examine regional brain activity changes as a function of mood and disease progression."** Develop a non-invasive perfusion MRI scanning technique and use this serially in rapid-cycling bipolar affective disorder patients to determine which brain regions are dysfunctional in mood disorders.
- PI: MS George, Co-I: **Z Nahas** 6/96 - 6/98 DuPont Pharma **"Neurolite SPECT Imaging of rCBF as a Predictor of Response to Antidepressant Activity (Transcranial Magnetic Stimulation)".** Inject SPECT radiotracer before, during and after left prefrontal rTMS treatment in depression to measure the effect of the treatment and to assess the regional brain changes associated with the treatment.
- PI: MS George, Co-I: **Z Nahas** 11/96 - 12/98 Janssen Research Foundation **"Volumetric & Functional MRI Scanning in Schizophrenia Patients Before and After Treatment with Risperidone"**. Document the change in caudate volume and the in brain activation in response to a cognitive task before and after risperidone.
- PI: MS George, Co-I: **Z Nahas** 12/97 - 12/2000 Lilly Research Laboratories **"Volumetric and Functional (Perfusion) MRI Scanning in Schizophrenic Patients Before, During, and After Treatment with Olanzapine"**. Use Imaging to document the change in caudate volume and the in brain activation in response to a cognitive task before and after olanzapine ".
- PI: MS George, Co-I: **Z Nahas** 9/98-9/00 NARSAD **"Combining TMS with Echoplanar BOLD fMRI to Determine Optimum Treatment Parameters for Depression."**, Use BOLD fMRI to help inform and narrow parameters used in TMS treatment trials for the treatment of refractory depression.
- PI: J Lorberbaum, Co-I: **Z Nahas** 01/98 – 12/00 Un-sponsored **"GAD: Studies using Repetitive Transcranial Magnetic Stimulation (rTMS) and functional MRI"**. Goal: To investigate the neuroanatomy of generalized anxiety.
- PI: MS George Co-I: **Z Nahas** 11/97-06/01 Janssen Research Foundation **"Volumetric and Functional (Perfusion) MRI scanning in Schizophrenia patients before, during and after treatment with Donepezil: Using Imaging to Prospectively Identify Responders"**. Goal: To use imaging to prospectively identify responders to donepezil.
- PI: SC Risch, Co-I: **Z Nahas** 11/97-06/01 Janssen Research Foundation **"A Double-Blind Placebo Controlled, Randomized Cross-over Study of Donepezil and Placebo in Stable Schizophrenia"**.. To determine effect of donepezil on cognition and negative symptoms in schizophrenia.
- PI: DeVane, L, Co-I: **Nahas,Z** 5/98 – 06/00 Un-sponsored **"The Pharmacokinetics of (R,S)- Methadone in Humans: Influence of a1-Acid Glycoprotein Phenotype"** Goal: To form a clearer understanding of the dose-concentration-effect relationship of methadone using pharmacokinetic-dynamic data from normal control subjects.

**Intramural Grants/amount of award:**

None

**Awards, Honors, Membership in Honorary Societies:**

- 1997 The Texas Psychiatric Physicians Association; Best resident's paper award for 1997.  
1998 Accepted to participate in a Colloquium for Young Investigators at the Annual Meeting of the American Psychiatric Association in Toronto (in the area of functional neuroimaging).  
1999 Health Emotion Research Institute Travel Award 5<sup>th</sup> Annual Wisconsin Symposium on Emotion.  
2000 Fellow Award. The 7<sup>th</sup> World Congress of Biological Psychiatry.  
2003 Future Leaders of Psychiatry Meeting  
2004 American College of Neuropsychopharmacology (ACNP) Memorial Travel Award  
2005 MUSC Health Science Research Foundation Developing Scholar Award  
2006 American College of Neuropsychopharmacology (ACNP) Associate Member  
2006 NARSAD Independent Investigator Award.  
2008 American College of Neuropsychopharmacology (ACNP) Member  
2010 NARSAD Top 10 Research Developments for 2009

**Academic Committee Activities (past 5 years):**

University

Pilot & Collaborative Translational and Clinical Studies work group, a component in the CTSA planning project

College

None

Department

MUSC LCME Survey Research Self-Study Committee  
MUSC APT Psychiatry (Promotion Committee)  
MUSC Research Task Committee  
MUSC Research Strategic Planning Taskforce  
MUSC Psychiatry Grand Rounds Committee (Chair)

Division

None

**Major Teaching Responsibilities (Current):**

Undergraduate Medical Education

- Physician Assistant students at MUSC:

Yearly Course on Schizophrenia and Psychosis (1999 – 2004)

Yearly Course on Mood Disorders (2005)

Graduate Medical Education

- Psychiatry Residency Program

Academic Courses

Overseeing Mood Disorders curriculum and course for PGY-III including Course on Brain Stimulation Therapies

- Supervision of PGY-IV at the Brain Stimulation Laboratory/Mood Disorders Clinic- MUSC  
Teaching Neuroimaging modalities: SPECT, fMRI, principals of image acquisition, data handling and processing (image analyses softwares like SPM, MEDx)

Teaching the principals of psychopharmacology  
Teaching the principals of transcranial magnetic stimulation (basic neurophysiology, neuropsychiatric applications, mechanisms of action)  
Teaching the principals of vagus nerve stimulation (basic neurophysiology, neuropsychiatric applications, mechanisms of action)  
Teaching the principals of electroconvulsive therapy (basic neurophysiology, neuropsychiatric applications, mechanisms of action)

- Supervision of PGY-IV rotating in ECT / TMS service

- Supervision of PGY-III for psychodynamic psychotherapy- MUSC

Teaching the principals of psychodynamic therapy, ethic of doctor-patient relationship, boundaries issues, integration with neurobiological principals

- Research Track Mentorship through DART program for select PGY-III and PGY-IV psychiatry residents at MUSC.

Teaching basics of advanced psychopharmacology and neuropsychiatric research  
Emphasis on Treatment-Resistant Mood Disorders

- Research Students Rotating at the Brain Stimulation Laboratory- MUSC  
Basic principals of clinical research.

- Supervision of medical students rotating in ECT / TMS service

Graduate Studies Education

- Neuroscience graduate students lecture on Neurobiology of Depression

Continuing Medical Education

- Chair - CME course on Transcranial Magnetic Stimulation at MUSC (held periodically)
- Chair - CME course on Transcranial Magnetic Stimulation at the APA Annual Meeting from 2002 to 2008
- Chair - CME course on Vagus Nerve Stimulation at the APA Annual Meeting in 2002 and 2006
- Chair - CME course on Brain Stimulation for Psychiatrists at the APA Annual Meeting in 2008 to 2011

### **Major Clinical Interests and Responsibilities:**

Brain Stimulation (Transcranial Magnetic Stimulation, Vagus Nerve Stimulation, Deep Brain Stimulation, Epidural Cortical Stimulation and Electroconvulsive Therapy, Electroconvulsive Therapy, Focally Electrically Administered Seizure Therapy)

Neuroimaging of Emotion Regulation Networks

Neuroimaging and Brain Stimulation

Mood Disorders (refractory depression, long term treatment, relapse prevention),

### **Extramural Professional Activities:**

Editor-in-chief

Frontiers in Neuropsychiatric Imaging and Stimulation

## Editorial Board

Brain Stimulation

## Ad Hoc Reviewer for:

American Journal of Psychiatry  
Archives of General Psychiatry  
Biological Psychiatry  
Brain Research  
Brain Stimulation  
Depression and Anxiety  
Epilepsy & Behavior  
Experimental Brain Research  
International Journal of Pharmaceutical Medicine  
Journal of Affective Disorders  
Journal of Clinical Psychiatry  
Journal of Neuropsychiatry and Clinical Neurosciences  
Neuroimage  
Schizophrenia Research

## Scientific Reviewer:

National Institute of Mental Health BDCN Member Conflict Study Section  
National Institute of Mental Health ZMHI Member Schizophrenia and Aging  
Israel Science Foundation  
Canadian Institute of Health Research  
Wellcome Trust  
Department of Defense  
National Institute of Health Clinical Neuroscience and Disease (CND) Study Section  
Constello Group Review Panel

## Consultant

Neuronetics Inc.,  
Cyberonics Inc., (over 3 years ago)  
Aventis (over 3 years ago)  
Avenir (over 3 years ago)

## Invited Lectures and Presentations

- 1/20/11 Speaker Medical University of South Carolina, Charleston, SC Neuroscience Grand Rounds: "Is Randomness Versus Determinism a Productive Question for the Neuromodulation? Specific implications for future brain stimulation therapies in depression"
- 12/2/10 Speaker McGill University, Montreal, Canada Grand Rounds: "Epidural prefrontal cortical stimulation for Treatment Resistant Depression"
- 11/5/10 Speaker Southeastern Medical Assembly Annual Scientific Meeting, Kissimeh, FL: "Neuromodulation and the Future of Somatic Psychiatric Therapies"
- 11/5/10 Speaker Southeastern Medical Assembly Annual Scientific Meeting, Kissimeh, FL: "Depression: Treatment Options"
- 10/8/10 Speaker Recent Advances in Brain Stimulation 2010 meeting, Montreal, Canada: "Transcranial Magnetic Stimulation for Depression"

- 9/28/10 Speaker University of Alabama, Birmingham, AL Grand Rounds: "Epidural prefrontal cortical stimulation for Treatment Resistant Depression"
- 9/22/10 Speaker Wayne State University, Detroit, MI Grand Rounds: "Epidural prefrontal cortical stimulation for Treatment Resistant Depression"
- 7/20/10 Speaker American University of Beirut, Beirut, Lebanon Grand Rounds: "Brain Stimulation for Treatment Resistant Depression"
- 6/14/10 Speaker Movement Disorders Congress Annual Meeting; Symposium Buenos Aires, Argentina: "Deep Brain Stimulation and Epidural Cortical Stimulation for Neuropsychiatric Disorders"
- 5/25/10 Speaker American Psychiatric Association Annual Meeting; Symposium: OPT-TMS; Lecture: "OPT-TMS Mechanisms of Action Studies"
- 5/21/10 Speaker Society of Biological Psychiatry Annual Meeting; Symposium: Mechanisms of Action of TMS; Lecture: "TMS fMRI: An Update"
- 1/26/10 Speaker Dartmouth College, Lebanon, NH Grand Rounds: "Epidural prefrontal cortical stimulation for Treatment Resistant Depression"
- 11/12/09 Speaker University of Wisconsin, Madison, WI Grand Rounds: "Epidural prefrontal cortical stimulation for Treatment Resistant Depression"
- 11/5/09 Speaker Yale University, New Haven, CT Grand Rounds: "Epidural prefrontal cortical stimulation for Treatment Resistant Depression"
- 5/19/09 Speaker at APA Symposium on Brain Stimulation: "TMS and EpCS: Now and in the future"
- 5/18/09 Speaker at APA CME Course on Neuropsychiatry: "Brain Imaging for Neuropsychiatrists"
- 5/17/09 Speaker and Organizing Committee Member ACT TMS Certification Course, San Francisco, CA: "TMS mechanisms of action"
- 2/13/09 Speaker at MUSC Grand Rounds, Charleston, SC: "Epidural prefrontal cortical stimulation for treatment resistant depression"
- 1/14/09 Speaker at UT Southwestern Grand Rounds, Dallas, TX: "Epidural prefrontal cortical stimulation for treatment resistant depression"
- 12/11/08 Chair and Speaker Study Group ACNP Annual Meeting, Scottsdale AZ: "The best rhythm for the brain"
- 08/17/08 Speaker at Updates on TMS, Montreal, Canada: "Interleaved TMSfMRI"
- 04/09/08 Speaker at SUMMA Grand Rounds, Akron, OH: "Neuromodulation in Psychiatry"
- 11/17/07 Speaker at the Canadian Psychiatric Meeting, Montreal, Canada: "Vagus Nerve Stimulation for Depression"
- 06/28/07 Speaker University of Kentucky, Louisville, KY Grand Rounds: "Neuromodulation for Treatment Resistant Depression"
- 11/02/06 Speaker at the Uruguay Biological Psychiatry Meeting, Montevideo, Uruguay: "Future of TMS"
- 06/13/06 Speaker at Philips Med Center, Eindhoven, Netherland: "Interleaved TMSfMRI"
- 03/04/06 Speaker at the International Society of Affective Disorder Annual Meeting, Lisbon, Portugal: "VNS as antidepressants"
- 02/25/06 Speaker at the Javeriana Psychiatric Congress, Bogota, Colombia: "Nature, Nurture and The Influence on Early Development"
- 02/25/06 Speaker at the Javeriana Psychiatric Congress, Bogota, Colombia: "VNS as antidepressants"
- 02/24/06 Speaker at the Javeriana Psychiatric Congress, Bogota, Colombia: "Neurobiology of Depression"
- 02/24/06 Speaker at the Javeriana Psychiatric Congress, Bogota, Colombia: "TMS as antidepressants"

- 03/23/05 Speaker at the University of Cincinnati Psychiatry Grand Rounds, Cincinnati, OH: "TMS and VNS as antidepressants"
- 03/03/05 Speaker at the Annual Meeting of the American Association of Geriatric Psychiatry – San Diego: "VNS as antidepressant"
- 09/13/04 Speaker at the University of Iowa Psychiatry Grand Rounds, Iowa City: Transcranial Magnetic Stimulation
- 09/12/04 Speaker at the Research Rounds, University of Iowa, Iowa City: "TMS/fMRI as new neuroscience tool"
- 09/08/04 Speaker at the Research Rounds; Biological Branch, NYSPI.; Columbia University in New York City: "Neuromodulation as Therapeutic: A complementary approach"
- 07/09/04 Speaker at the 2004 World Federation of Societies of Biological Psychiatry Asia-Pacific Congress in Seoul Korea: "TMS/fMRI"
- 05/02/04 Speaker at the APA Annual Meeting in New York City: Transcranial Magnetic Stimulation"
- 05/01/04 Speaker at the ACT/ISTS Annual Meeting in New York City. "TMS antidepressant mechanisms of action: A critical review"
- 10/2003 Speaker at the Bipolar Disorder Meeting in Cascais Portugal. "TMS and VNS In Depression"
- 09/2003 Speaker at ECNS annual meeting/ Houston, TX. "VNS in Depression"
- 09/2003 Speaker at Baylor College of Medicine, Psychiatry Grand Rounds. "Brain Stimulation and functional imaging.
- 08/2003 Speaker at the 11<sup>th</sup> Annual Meeting of the international Psychogeriatric Association in Chicago. "Brain stimulation as cognitive enhancers"
- 10/2002 Speaker at the Biological Psychiatry meeting in Brazil. "Transcranial magnetic stimulation"
- 10/2002 Speaker at the Italian Biological Psychiatry meeting in Milan, Italy. "Transcranial magnetic stimulation"
- 05/2002 Presentation at the Annual Meeting of the Society of Biological Psychiatry. Philadelphia, PA. "Vagus Nerve Stimulation and fMRI in Treatment-Resistant Depression"
- 05/2002 Speaker at the "fMRI lecture series" Wake Forest Univ, North Carolina. "Interleaved TMS/fMRI: A new neuroscience tool".
- 06/2001 Speaker at the "Neuromodulation: Defining the Future" Symposium. The Cleveland Clinic Foundation. "TMS and VNS as treatment for depression".
- 05/2001 Speaker at the New York Psychoanalytic Institute and Neuroscience Research Funds combined seminar on integrated basic neurosciences research: "Evocative Memory in Borderline Personality Disorders"; Using TMS and fMRI to understand the neuronal network of evocative memory deficits in BPD. NY, NY
- 05/2001 Oral Presentation at the Biological Psychiatry Meeting in New Orleans. "Interleaved VNS/fMRI"
- 02/2001 Speaker at Neuroscience Grand Rounds at MUSC. "Interleaved TMS/fMRI : A New Neuroscience Tool".
- 02/2001 Speaker at the American Association for Geriatric Psychiatry 14<sup>th</sup> Annual Meeting, San Francisco CA. : Chair and speaker of a Program "TMS in the elderly"
- 11/2000 Speaker for the Post-Graduate Institute of Medicine. Wichita, Nebraska. "Novel Approaches to the Patient with Treatment Resistant Depression"
- 10/2000 Speaker for MUSC- Days of Discoveries "Neuroimaging Research"
- 09/2000 Speaker for the Post-Graduate Institute of Medicine. Charleston, SC "Novel Approaches to the Patient with Treatment Resistant Depression"
- 09/2000 Speaker for the Federal Defender Training Group San Francisco, CA. "Neuroimaging as Test for Neurological Impairment. Cons and Pros".

- 05/1999 Speaker for MUSC- Breakfast Rounds. "TMS and VNS. New treatment approaches for treatment of Depression"
- 04/1999 Speaker at the Lebanese College of Neuropsychopharmacology. Beirut, Lebanon. "TMS and mood disorders".  
Also organized a workshop "Pharmacogenetic determinants of rapid or slow metabolizers of drugs through the cytochrome P450 in the middle eastern population"
- 01/1999 Speaker at the Michigan Psychiatric Society - Winter Meeting. Ann Arbor, MI. "Future trends in psychiatry". Transcranial Magnetic Stimulation in mood and emotions".
- 08/1999 Speaker for the Federal Defender Training Group Atlanta, GA. "Violence and Neuroimaging"
- 11/1998 Speaker at the INSERM – Functional Imaging Laboratories. Orsay France. "rTMS in Mood and Emotions".
- 07/1998 Speaker at the American University of Beirut- Department of Psychiatry: "rTMS and Neuroimaging".
- 07/1998 Oral presentation at the Junior Investigator - CINP, Glasgow, Scotland "Serial Spin\_labeled perfusion MRI in a Manic patient on Olanzapine and Lithium".
- 11/1997 Speaker at the Texas Society Psychiatric Physicians' Annual Meeting: "Depression in demented patients. A naturalistic study"
- 06/1997 Speaker at Baylor College of Medicine, Department of Psychiatry Grand Rounds presentation: "The Primary Easthetics"

## **Publications:**

### Peer Reviewed Journal Articles:

1. **Nahas Z**, Baddoura C, Baladi A. Male Hysterical Conversion: A Study on the Lebanese Army. Psychiatric Hospital of the Cross, Le Psyche; 1993 Jun 21; 1 (3) 79-89.
2. **Nahas Z**, Kunik ME, Molinari V, Workman R. Relationship between Personality Disorders and the Caregiver Burden in the Demented Patient. The Clinical Gerontologist; 1996:72-76.
3. **Nahas Z**, Kunik ME Molinari V, Orengo C, Workman R. Depression in Demented Patients: A Naturalistic Study. Journal of Affective Disorders. 1997; 46243-46246.
4. George MS, Speer AM, Molloy M, **Nahas Z**, Lawandales CC, Stallings LE, Risch SC, Arana GW Ballenger JC, Post RM. Low Frequency Daily Left Prefrontal rTMS Improves Mood in Bipolar Depression: A Placebo-Controlled Case Report. Human Psychopharmacology: Clinical and Experimental, 1998; 13:271-275.
5. Pridmore S, Filho JAF, **Nahas Z**, Liberatos C, George MS. Motor Threshold in Transcranial Magnetic Stimulation: A Comparison of a Neuropsychological and a Visualization of Movement Method. The Journal of ECT. 1998;14 (1):25-27.
6. **Nahas Z**, Lorberbaum JP, Risch SC, George MS. SPECT and PET in Neuropsychiatry. Primary Psychiatry. March 1998 Vol 5,No3
7. Bohning DE, Lorberbaum JP, Shastri A, **Nahas Z**, George MS. Structural Brain Imaging (CT and MRI) in Primary Psychiatry. Primary Psychiatry. March 1998. Vol 5, No. 3.
8. Lorberbaum JP, Bohning DE, Shastri A, **Nahas Z**, Horner MD, George MS. Functional Magnetic Resonance Imaging (fMRI) for the Psychiatrist. Primary Psychiatry. March 1998. Vol 5, No. 3
9. **Nahas Z**, Arlinghaus KA, Kotria KJ, Clearman RR, George MS. Rapid Response of Emotional Incontinence to SSRIs. Journal of Neuropsychiatry, 1998 Fall; 10 (4):453-5.
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