

# **MOHAMED A. SHERIF, MD, MSC**

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## **LICENSURE AND CERTIFICATION**

2011	Basic Cardiac Life Support (BCLS).
2011	Advanced Cardiac Life Support (ACLS).
2010	Institutional Review Board (IRB) certification.
2008	ECFMG certificate (# 0-520-005-9).
2008	Masters degree of Neurology and Psychiatry.
2004	Licensed physician by Physician's Council, Cairo, Egypt.
2003	Bachelor degree of medicine & surgery (M.B.;B.Ch.)

## **EDUCATIONAL BACKGROUND**

### **POST-GRADUATE TRAINING**

2009 – Present	Psychiatry resident and graduate student in combined residency / Ph.D. program, SUNY Downstate Medical Center / Kings County Hospital Center and SUNY Downstate Medical Center / Polytechnic Institute of NYU.
2008	Masters degree of Sciences (M.Sc.) in Neurology and Psychiatry, Department of Neuropsychiatry, Ain Shams University, Cairo, Egypt.
2005 – 2008	Resident of Neurology and Psychiatry, Ain Shams University hospitals, Cairo, Egypt.

2004 – 2005 Clinical internship in Medicine, Surgery, OB/GYN, and Pediatrics,  
School of Medicine, Ain Shams University, Cairo, Egypt.

## **MEDICAL EDUCATION**

1998 – 2003 School of Medicine, Ain Shams University, Cairo, Egypt  
(Degree: M.B.;B.Ch.).

## **CLINICAL CARE EXPERIENCE**

July 2011 – Present SUNY Downstate Medical Center, Brooklyn, NY.  
PGY-3 Psychiatry resident.

July 2010 – June 2011 SUNY Downstate Medical Center, Brooklyn, NY.  
PGY-2 Psychiatry resident.

July 2009 – June 2010 SUNY Downstate Medical Center, Brooklyn, NY.  
Clinical Internship  
(Medicine, Neurology and Psychiatry).

April – September 2008 SUNY Upstate Medical Center, Syracuse, NY and  
Rhode Island Hospital, Providence, RI.  
Clinical Observership.

2005 – 2009 Ain Shams University hospitals, Cairo, Egypt.  
Resident of Neurology and Psychiatry.  
(Neurology Inpatient, Outpatient and Critical care and  
Psychiatry Inpatient, Outpatient and Consultation-Liaison).

2004 – 2005 Ain Shams University hospitals, Cairo, Egypt.  
Clinical internship  
(Medicine, Surgery, OB/GYN, and pediatrics).

## **RESEARCH EXPERIENCE**

- July 2011 – Present                      Graduate student at the joint Biomedical Engineering (BME) Ph.D. program at SUNY Downstate Medical Center / Polytechnic Institute of NYU.
- 2009 – July 2011                         Research associate.  
PI: William Lytton, MD; Professor,  
Departments of Neurology and of Physiology and Pharmacology.  
SUNY Downstate Medical Center, Brooklyn, NY.  
Modeling hippocampal neuronal circuitry.
- 2008 – 2009                                Research associate.  
PI: Frank Middleton, PhD; Director,  
Center for Neuropsychiatric Genetics and  
Microarray Core Facility, SUNY Upstate Medical University.  
Exploring the effect of protein mutation on protein-protein interaction  
using computational modeling techniques.
- 2007 – 2008                                Research Associate.  
PI: Tarek A. Okasha, MD; Professor,  
Okasha Institute of Psychiatry - Ain Shams University.  
“INTRA I” project: examining the health care delivery  
system's role and response to aging with a particular focus  
on Primary Health Care (PHC).
- 2005 – 2006                                Research Associate.  
PI: Tarek A. Okasha, MD; Professor,  
Okasha Institute of Psychiatry - Ain Shams University.  
Measuring the severity of addiction in a larger Egyptian community  
sample (cosponsored by the National Institute on Drug Abuse (NIDA),  
Bethesda, MD).
- 2005    Research Associate.  
PI: Mostafa Awadh, MD; Assistant lecturer,  
Department of Neurology, Ain Shams University.  
Studying the effect of large loading dose of clopidogrel on ischemic  
stroke patients.

## **PROFESSIONAL MEMBERSHIPS**

- Jan 2010 - Present                        American Psychiatric Association.

2009 – Present	Brooklyn Psychiatric Society.
2008 - Present	International Society for Computational Biology.
September 2011 – Present	Society for Neuroscience.
March 2012 – Present	Organization of Computational Neuroscience

## **SCHOLASTIC ACTIVITIES**

### Combined Residency / Ph.D. program:

This program is through an arrangement with the School of Graduate Studies at SUNY, Downstate medical centre. According to this program, starting from third year of psychiatry residency, half of the time would be protected for the courses and research work aiming at obtaining the Ph.D. degree in Biomedical Engineering. The other half would be for the clinical work aiming at fulfilling the requirements of the ACGME (Accreditation Council for Graduate Medical Education) for the psychiatry residency. Approval from ACGME was obtained for this combined program, which will be for 5 years.

### Research mentor (July, 2011 to present)

Mentoring PGY-2 residents during their mandatory research month (12 per year). This involves assisting them in identifying their interests, identifying a suitable supervisor for their research, and helping them reviewing articles for the Journal of Community Psychiatry. I was chosen to continue this role during the next academic year (starting July 2012).

### Research month (November, 2010)

This involved working in Dr. Lytton's lab (SUNY Downstate Medical Center). We worked on a computational model for the effect of ketamine on rat hippocampus. This work resulted in an article that has been published in the Journal of Neuroscience. Also, a book chapter is being prepared about the computational neuroscience of brain diseases.

### Publications/Abstracts

- “CPP alters hippocampal CA1 oscillations in rat: simulation and experiment”, Mohamed A. Sherif, Jeremy M. Barry, Samuel A. Neymotin, William W. Lytton. Poster, Mathematical Modeling of Schizophrenia, Fields Institute, University of Toronto, Toronto, Canada, 2012.
- “CPP alters hippocampal CA1 oscillations in rat: simulation and experiment”, Mohamed A. Sherif, Jeremy M. Barry, Samuel A. Neymotin, William W. Lytton. Poster, SUNY Downstate Annual Research Day April, 2012.

- “Computational neuroscience of brain diseases”. Mohamed Sherif and William Lytton. Book chapter – in preparation – MIT press.
- “Ketamine disrupts theta modulation of gamma in a computer model of hippocampus ”, Samuel A. Neymotin , Maciej T. Lazarewicz , Mohamed Sherif , Diego Contreras , Lief H. Finkel , William W. Lytton (2011). The Journal of Neuroscience, 31(32): 11733- 11743; doi: 10.1523/JNEUROSCI.0501-11.2011.
- “Computational neuroscience and multiscale modeling (MSM) in Neurology & Psychiatry”, Mohamed A. Sherif, William W. Lytton. Poster, SUNY Downstate Annual Research Day March, 2011.
- “SLC9a9 genetic variants in a novel rat model of ADD”, Yanli Zhang-James, Tania BasBanerjee, Mohamed Sherif, Terje Sagvolden, Frank Middleton, Stephen Faraone. Poster, 9th annual meeting of ADHD Molecular Genetics Network, Sanibel, FL, December 2008.
- “Single loading doses of clopidogrel are well tolerated in ischaemic stroke up to 24 hours from onset”, Mostafa Awadh, Sherif Ragab, Mohamed Sherif, Hossam Afifiy, Hany Aref, Ramez Mostafa, M. Ossama Abdulghani. 17<sup>th</sup> European Stroke Conference, Nice, France, May 2008.
- “Acute total occlusion of the left internal carotid and both femoral arteries from left atrial thrombus in rheumatic heart: Combined medical and surgical management. A case report”, Mostafa Awadh, Sherif Ragab, Mohamed Sherif, Marwa Abd El-Rahman. 6<sup>th</sup> World Stroke Congress, Vienna, Austria, September 2008.

### Invitations

- Invited as a guest to the 49<sup>th</sup> Annual meeting of the American College of Neuropsychopharmacology (ACNP) in Miami, FL (2010) by Dr. Schooler, Nina.
- Invited to the “Mathematical Modeling of Schizophrenia” workshop in Toronto, Canada, May 2012.

### Reviewing articles

- One article for the Community Mental Health Journal in 2010 (as requested by Dr. Stephen Goldfinger, chair of the department of psychiatry).
- One article for the Journal of Computational Neuroscience in 2012.

### **COMMITTEES AT SUNY DOWNSTATE**

- Recruitment committee for residency applicants (2010).
- Grand rounds committee (2010).

**COMMUNITY PSYCHIATRY**

Shared in the “Out of darkness” walk of the American Foundation for Suicide Prevention (AFSP) in 2009, 2011.

Shared in the National Alliance for the Mentally Ill (NAMI) walk in 2011.

**LANGUAGES**      Fluent in English and Arabic.

**VISA STATUS**      H1-B visa (expiry date: 30 June, 2013).

**REFERENCES**      Available upon request.