

BIOGRAPHICAL SKETCH

Provide the following information for the Senior/key personnel and other significant contributors in the order listed on Form Page 2. Follow this format for each person. **DO NOT EXCEED FOUR PAGES.**

| NAME Timothy Q Duong, PhD | | POSITION TITLE Professor, MRI Division Chief | |
|---|---------------------------|---|-------------------------|
| eRA COMMONS USER NAME (credential, e.g., agency login) DUONGT | | | |
| EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, include postdoctoral training and residency training if applicable.) | | | |
| INSTITUTION AND LOCATION | DEGREE (if applicable) | MM/YY | FIELD OF STUDY |
| New York State University at Stony Brook | BS; BS | 1990-1994 | Chemistry; Biochemistry |
| Washington University | MA | 1994-1996 | Physical chemistry |
| Washington University | PhD | 1996-1998 | Diffusion MRI/MRS |

Please refer to the application instructions in order to complete sections A, B, C, and D of the Biographical Sketch.

A. Personal statement. Briefly describe why your experience and qualifications make you particularly well-suited for your role (e.g., PD/PI, mentor) in the project that is the subject of the application.

Dr. Duong is the Stanley I Glickman Professor of Ophthalmology, Radiology and Physiology, MRI Division Chief, Assistant Director of Research of the Research Imaging Institute. He is also a UTSA/UTHSCSA Biomedical Engineering joint program faculty. Dr. Duong has over 15 years of experience in developing and applying magnetic resonance imaging (MRI) and spectroscopy (MRS) to study anatomy, physiology and function of the central nervous system in normal and diseased states with the key focus in stroke. Specifically, these developments include: (1) novel MRI/MRS methodologies to dynamically measure blood flow, tissue oxygen tension, blood volume of retina; (2) high-resolution functional MRI techniques for mapping layer-specific and columnar organization; and (3) imaging biomarkers for early detection, longitudinal monitoring, and prediction of tissue fate in *stroke*.

B. Positions and Honors.

- 9/94 – 5/98 NSF predoctoral fellow, Research & Teaching Assistant, Chemistry, Washington University
- 7/98 – 6/99 NIH NRSA postdoc fellow, Center for Magnetic Resonance Research, University of Minnesota
- 6/99 – 8/01 Research Assistant Professor, Center for Magnetic Resonance Research (CMRR), Radiology, University of Minnesota Medical School
- 9/01 – 10/04 Director of Magnetic Resonance Research, Assistant Professor of Psychiatry and Neurology, Center for Comparative NeuroImaging, University of Massachusetts Medical School
- Assistant Professor, Department of Biomedical Engineering, Worcester Polytechnic Institute
- 10/04–10/08 Director of Yerkes Imaging Center, Yerkes Research Center, Emory University
- Associate Professor of Neurology (tenured 2007) and Radiology, Emory University
- Faculty in Biomedical Engineering, Bioengineering (Georgia Institute of Technology)
- Research Chemist, Atlanta VA Medical Center
- 11/08 – * Stanley I. Glickman MD Chair Professor of Ophthalmology, Physiology, Radiology
- * MRI Division Chief & Assistant Director of Research, Research Imaging Center
- University of Texas Health Science Center at San Antonio (tenured)
- * Research Health Scientist, South Texas Veterans Health Care System
- * Affiliate Scientist, Southwest National Primate Research Center

Awards and Services

- NSF predoctoral fellow, Washington University, St Louis, 1994-1998
- Travel stipends to attend the International Society of Magnetic Resonance in Medicine (ISMRM) meeting in Philadelphia (1999), Sydney (1998), Vancouver, (1997) – limited to three
- ISMRM Young Investigators' Rabi Award, 1998
- NIH/NINDS NRSA postdoctoral fellow, 1999-2001
- Winter Brain Conference, Young Investigator Travel Award (Breckenridge, Colorado), 2004.
- ISMRM Publication Committee Member, 2006 – 2010
- ISMRM Young Investigator Award Committee Member, 2011 - present
- Editorial Board, *J Cereb Blood Flow Metab*, 2007- present
- Regional Editor (2010-present), Open Neuroimaging Journal
- Editorial Board (2007-present), Open Neuroimaging Journal
- Editorial Board, *Human Brain Mapping*, 2010-present
- Career Development Award, Department of Veterans Affairs, 2007-2009
- Special issue editors
 - 2011 Special Issue in Open Neuroimage J (Neuroimaging of non-human Primates)
 - 2011 Special Issue in Open Neuroimage J (Physiological MRI)
 - First issue of 2012 – Special Issue in Translational Stroke Research (Recent MRI Advances in Experimental Stroke)

Reviewers for NIH Study Sections

NIH, Clinical Neuroplasticity & Neurotransmitters (CNNT) study section, BDCN-2

SRA: William Benzing, Nov 8-9, **2004**; Feb 28-Mar1, **2005**; Jun 23-24, **2005**; Oct 27-28, **2005**

NIH, Biomedical Imaging Technology (BMIT) study section

SRA: Lee Rosen, Jun 6-7, **2005**; Feb 6-7; **2006**, May 22-23, **2006**; Feb 15-16, **2007**, Feb 10-12, **2010**

NIH, In Vivo Imaging and Bioengineering Research study section

SRA: Behrouz Shabestari, Jun 19-20, **2006**; Nov 7-8, **2006**; Mar **2007**

NIH, Biology and diseases of the posterior eye study section

SRA: Michael Chaitin, Jun 19-20, **2006**, Oct 19-20, **2009**

American Heart Association, Brain Two (2)

Chair: Jun Chen, April 18-19, **2006**, Oct 17-18, **2006**; Apr 11, **2007**

NIH, Special Emphasis Panel/Scientific Review Group 2011/10 BMIT-A

SRA: Behrouz Shabestari, Jun 2-3, **2011**

Reviewers for 27 journals since 2000

Magnetic Resonance in Medicine, Human Brain Mapping, J Magnetic Resonance Imaging, NeuroImage, Stroke, Investigative Ophthalmology & Visual Science (IOVS), J Cereb Blood Flow & Metab, J Neuroscience, J of Neuroscience Methods, Annals Neurology, Brain Research, Magnetic Resonance Imaging, NMR in Biomedicine, Proc Nat Acad Sci USA, NeuroSignal, IEEE Trans on Medical Imaging, Magn Reson of Materials in Physics, Biology & Med (MAGMA), Neuropsychopharmacology, Cerebral Cortex, Neuroscience, ILAT, European Journal of Neuroscience, Medical Engineering and Physics, J Magnetic Resonance, ILAT, Journal of Neurophysiology, Molecular Vision

Membership

International Society of Magnetic Resonance in Medicine (ISMRM)

Association for Research in Vision and Ophthalmology (ARVO)

Society for Neuroscience (SfN)

American Heart Association (AHA)

International Society for Cerebral Blood Flow and Metabolism (ISCBFM)