CURRICULUM VITAE

THOMAS M. MALONE

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PLACE OF BIRTH:	St. Louis, Missouri
CITIZENSHIP:	USA

EDUCATION AND TRAINING

UNDERGRADUATE

University of Missouri-St. Louis B.A. English Literature

FELLOWSHIPS, AWARDS AND TEACHING EXPERIENCES

American Heart Association Student Fellowship
Saint Louis University Hospital, St. Louis, Missouri.
Department of Internal Medicine
Division of Pulmonology and Pulmonary Occupational Medicine
Miller Lab. 1996.
Program Director: Robert O. Webster, Ph.D.

Saint Louis University Scholarships 1994-1998
Irving J. Selikoff Travel Award 1996
Rockhurst University Scholarships 2000-2001
Rockhurst University Teaching Assistantship 2001

Private Tutor: Professional Skills Institute 2006-2007

CERTIFICATIONS

American Heart Association CPR Certification 2006.

APPOINTMENTS AND POSITIONS

5/2006- Present Research Assistant
Snyder Lab
Anatomy and Neurobiology
Washington University School of Medicine

Program Director: Lawrence H. Snyder, M.D., Ph.D.

11/2003-1/2006 Research Assistant
Hoglund Brain Imaging Center
University of Kansas Medical Center

Program Director: William M. Brooks, Ph.D.

2001-2003 Research Assistant
Department of Anatomy and Cell Biology
University of Kansas Medical Center

Program Director: Nancy E. Berman, Ph.D.

1994-1997 Research Assistant
Saint Louis University School of Medicine
Department of Internal Medicine
Division of Pulmonary, Critical Care, and Occupational Medicine

Program Director: Mary Ellen Kleinhenz, M.D.

VOLUNTEER ACTIVITIES

2000-Present Patient Assistant
KC Free Health Clinic
3515 Broadway
Kansas City, MO 64111
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RESEARCH INTERESTS

One of my primary interests is spinal cord injury (SCI). At present, my main research interests are how the parietal cortex processes visual spatial information and how this information is used to direct eye and arm movements. I am particularly interested in how intentions for motor activity are processed in the parietal cortex and how understanding these mechanisms can better serve those who suffer from spinal cord injury via neuro-prosthetics or other interventions. I am also interested in neuro-protection and neuro-regeneration after insult, whether that insult is caused by impact, stroke, cerebral aneurysm or disease.

Currently, in the Snyder lab, we use single-unit recording to detect activity in a single neuron. Additionally, we perform functional magnetic resonance imaging studies (fMRI) to document activity in the parietal cortex during visual and motor tasks.

I am increasingly interested in the role genetics and proteomics play in disease pathology and how these emerging fields can be used to not only aid in recovery, but, ideally, to prevent expression of disease before symptoms are suffered.

PEER REVIEWED PUBLICATIONS

1. M. Bilgen, B. Al-Hafez, **T.M. Malone**, I. Smirnova. Ex-Vivo Magnetic Resonance Imaging of Rat Spinal Cord at 9.4T Magnetic Resonance Imaging, 2005; 23 (4): 601-605.

2. M. Bilgen, N. Dancause, B. Al-Hafez, Y.Y. He, **T.M. Malone** Manganese-Enhanced Imaging of Rat Spinal Cord Injury Magnetic Resonance Imaging, 2005; 23(7): 829-32.

ABSTRACTS

1. R. Mummeneni, J. Burns, **T.M. Malone**, W.M. Brooks. Brain Volume and Cognition in Traumatic Brain Injury. University of Kansas Medical Center, Department of Neurology, Residents' Research Day Award – First Place Winner.

2. W. M. Brooks, C. Savage, R. Aupperle, **T. M. Malone**, A. Schmitt, J. Lierman, A. Popescu, M. Popescu. Traumatic Brain Injury: 3 Tesla Magnetic Resonance Spectroscopic Imaging and Cognitive Function. International Society for Magnetic Resonance in Medicine, Accepted, February, 2004.

3. M.E. Kleinhenz, C. Hegamin-Younger, **T.M. Malone**. APACHE III as a predictor of mortality in specialized intensive care hospitals. American Journal of Respiratory and Critical Care Medicine, 1997; 155 (4): A19.

4. C. Trello, **T. M. Malone**, S. Tricomi, C. Keller, R. Webster, J. Ohar. Elastase Activity in BALF is increased in lung transplant recipients. American Journal of Respiratory and Critical Care Medicine, 1997; 155 (4): A651.

5. M.E. Kleinhenz, T.M. Hyers, J.A. Ohar, C. Crim, G.W. Jenkins, **T.M. Malone**. Radiographic progression of asbestos-induced lung disease. American Journal of Respiratory and Critical Care Medicine, 1996; 153 (4): A475.

CONFERENCE ABSTRACTS

S.B. Hall, M. Popescu, A. Popescu, N. Nazir, **T.M. Malone**, R. Aupperle, A. Schmitt, J. Lierman, W. M. Brooks A Comparison of Different Methods for Identifying Outliers in MRS Data Joint Statistical Meetings, August 5-10, 2006, Seattle, Washington, USA.

W.M. Brooks, S.B. Hall, J. Lierman, A.L. Schmitt, L.R. Ladesich, **T.M. Malone**, R.L. Aupperle, C.R. Savage Magnetic Resonance Spectroscopic Imaging is Sensitive to Severity in Traumatic Brain Injury *Proc. Of the 14th Meeting of the Intl. Soc. Mag. Reson. Med.,* May 6-12, 2006, Seattle, Washington, USA.

Brooks, W.M., Savage, C., Aupperle, R., **Malone, T.M.,** Schmitt, A., Lierman, J., Popescu, M. (2005). Traumatic Brain Injury: 3 Tesla Magnetic Resonance

Spectroscopic Imaging and Cognitive Function. *Proc.Of the 13th Meeting of the Intl. Soc. Mag. Reson. Med.*, May 7-13, 2005. Miami, Florida, USA

Kansas City Area Life Science Institute Conference (KCALSI), Kansas City, KS, High Resolution Magnetic Resonance Imaging Studies at 9.4 T June, 2004

American Lung Association/ American Thoracic Society International Conference, San Francisco, CA, Elastase Activity in BALF is increased in lung transplant recipients, May, 1997.

American Lung Association/ American Thoracic Society International Conference, New Orleans, LA, Radiographic progression of asbestos-induced lung disease, May, 1996.

ACKNOWLEDGEMENTS

1) R. Lognathan, M. Bilgen, B. Al-Hafez, I.V. Smirnova. Characterization of Alterations in Diabetic Myocardial Tissue Using High Resolution MRI. The International Journal of Cardiovascular Imaging (formerly Cardiac Imaging), February, 2006; 22 (1): 81-90.

2) G. Onyszchuk, B. Al-Hafez, Y.Y. He, M. Bilgen, N.E.J. Berman, W.M. Brooks. A mouse model of sensorimotor controlled cortical impact: Characterization using longitudinal magnetic resonance imaging, behavioral assessments and histology Journal of Neuroscience Methods, October, 2006.