

Andrew Thomas McKenzie

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Education

Icahn School of Medicine at Mount Sinai (2012 - Present)

MD/PhD Candidate

Vassar College, Poughkeepsie, NY (2006 - 2010)

BA, General Honors

Major: Neuroscience & Behavior (Award Winner), *Minor:* Math

Grants and Awards

Ruth L. Kirschstein NRSA Pre-doctoral Fellowship (2015 - Present)

National Institute of Aging, NIH

Mentors: Bin Zhang, Ph.D.; Patrizia Casaccia, M.D., Ph.D.

Post-baccalaureate Intramural Research Trainee (2010 - 2012)

National Institute of Allergic and Infectious Disease, NIH

Mentor: Stephen Leppla, Ph.D.

Research Experience

Icahn School of Medicine at Mount Sinai (06/13 - Present)

Graduate Student Researcher

Advisors: Bin Zhang, Ph.D.; Patrizia Casaccia, M.D., Ph.D.

Network biology of oligodendrocytes and myelin in Alzheimer's disease

Icahn School of Medicine at Mount Sinai (09/12 - 10/14)

Medical Student Researcher, Tox-Tweet Group

Advisors: Nicholas Genes, M.D., Ph.D.; Alex Manini, M.D.

Mining social media to monitor emerging drug use

National Institute of Allergic and Infectious Diseases, Bethesda, MD (06/10 - 05/12)

Research Trainee; Advisor: Stephen Leppla, Ph.D.

Toxin gene expression in *Bacillus anthracis*

Vassar College Psychology Department (09/08 - 05/10)

Research Assistant; Advisor: J. Mark Cleaveland, Ph.D.

Choice behavior in *Columba livia* under interval reward schedules

Research Articles

1. Chary M, Park EH, **McKenzie AT**, Sun J, Manini AF, Genes N. Signs & symptoms of Dextromethorphan exposure from YouTube. PLoS ONE. 2014;9(2):e82452.
2. **McKenzie AT**, Pomerantsev AP, Sastalla I, Martens C, Ricklefs SM, Virtaneva K, Anzick S, Porcella SF, Leppla SH. Transcriptome analysis identifies Bacillus anthracis genes that respond to CO₂ through an AtxA-dependent mechanism. BMC Genomics. 2014;15:229.
3. Sastalla I, Crown D, Masters SL, **McKenzie AT**, Leppla SH, Moayeri M. Transcriptional analysis of the three Nlrp1 paralogs in mice. BMC Genomics. 2013;14:188.
4. Wein AN, Liu S, Zhang Y, **McKenzie AT**, Leppla SH. Tumor therapy with a urokinase plasminogen activator-activated anthrax lethal toxin alone and in combination with paclitaxel. Invest New Drugs. 2013;31(1):206-12.
5. **McKenzie AT**, Cleaveland JM. A further application of the active time model to multiple concurrent variable-interval schedules. Behav Processes. 2010;84(1):470-5.

Review Articles

1. Chary M, Genes N, **McKenzie AT**, Manini AF. Leveraging social networks for toxicovigilance. J Med Toxicol. 2013;9(2):184-91.

Conference Presentations

1. **McKenzie AT**, Wang M, Katsyv I, Song WM, Xianxiao Z, Popko B, Aaker J, Del Tredici K, Nave KA, Zhu J, Schadt EE, Casaccia P, Zhang B. Oligodendrocyte-Enriched Gene Networks Reveal Novel Pathways and Key Targets in the Pathogenesis of Alzheimer's Disease. (2016) Alzheimer's Association International Conference, Toronto, Canada. Oral Presentation.
2. **McKenzie AT**, Wang M, Song WM, Zhu J, Nave KA, Popko B, Casaccia P, Zhang B. Network Modeling of Myelin Dysregulation in Alzheimer's Disease. (2015) Society for Neuroscience, Chicago, Illinois. Poster presentation.
3. **McKenzie AT**, Pomerantsev AP, Leppla SH. (2011) Iterative motif searching for DNA elements regulating the CO₂ response of Bacillus anthracis. NIH Post-baccalaureate Research Festival, Bethesda, Maryland. Poster presentation.
4. **McKenzie AT**, Cleaveland JM. (2010) Curve fitting active time functions and the impact of a change over delay. Society for Quantitative Analyses of Behavior, San Antonio, Texas. Poster presentation.

5. **McKenzie AT**, Cleaveland JM. (2009) An Active Time Account of Belke's 1992 Result. Society for Quantitative Analyses of Behavior, Phoenix, Arizona. Poster presentation.

Teaching Experience

Poughkeepsie High School

TA for AP Biology, 2009

Icahn School of Medicine at Mount Sinai

TA for Brain & Behavior, 2014, 2015

TA for Summer School in Computational Genomics, 2016