AMANDA K. TILOT

Curriculum vitae

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EDUCATION

Case Western Reserve University — Cleveland, Ohio, USA
PhD, Cleveland Clinic Department of Molecular Medicine — January 2015
Dissertation: "Altered Social Behavior and Neuroinflammation in a Mouse Model of *Pten* Mislocalization"

Albion College — Albion, Michigan, USA
BA, majors in Biology and Psychology, concentration in Neuroscience — 2009
Graduated magna cum laude with college honors
Honors Thesis: "Pregnancy and Reentrainment after Phase Shifts in *Octodon degus*"

PUBLICATIONS

Tilot AK, Bebek G, Niazi F, Altemus, J, Romigh T, Frazier TW 2nd, Eng C. "Neural transcriptome of constitutional Pten dysfunction in mice and its relevance to human idiopathic autism spectrum disorder". *Molecular Psychiatry*, 2016, *21*(1):118-125. PMCID: PMC4565786.

Tilot AK, Frazier TW 2nd, Eng C. "Balancing proliferation and connectivity in PTEN-associated autism spectrum disorder". *Neurotherapeutics*, 2015, *12*(3):609-19. PMCID: PMC4489960. Review.

Frazier TW 2nd, Embacher R, **Tilot AK**, Koenig K, Mester J, Eng C. "Molecular and phenotypic abnormalities in individuals with germline heterozygous *PTEN* mutations and autism". *Molecular Psychiatry*, 2015, *20*(9):1132-1138. PMCID: PMC4388743.

Leung W, **Tilot AK**, Saville K, Elgin, SC. "The Drosophila muller F elements maintain a distinct set of genomic properties over 40 million years of evolution". *G3: GENES, GENOMEs, GENETICS*, 2015, *5*(5):719-40. PMCID: PMC4426361. [Total 940 student co-authors, 74 faculty co-authors.]

Komuro Y, Galas L, Lebon A, Raoult E, Fahrion JK, **Tilot A**, Kumada T, Ohno N, Vaudry D, Komuro H. "The role of calcium and cyclic nucleotide signaling in cerebellar granule cell migration under normal and pathological conditions". *Developmental Neurobiology*, 2015, *75*(4):369-87. PMID: 25066767. Review.

Tilot AK, Gaugler M, Yu Q, Romigh T, Yu W, Miller RH, Frazier TW 2nd, Eng C. "Germline disruption of Pten localization causes enhanced sex-dependent social motivation and increased glial production". *Human Molecular Genetics*, 2014, *23*(12): 3213-27. PMCID: PMC4030776.

Mester JL, **Tilot AK**, Rybicki LA, Frazier TW, Eng C. "Analysis of prevalence and degree of macrocephaly in patients with germline *PTEN* mutations and brain weight in *Pten* knock-in murine model". *European Journal of Human Genetics*, 2011, *19*(7): 763-8. PMCID: PMC3137495.

FUNDING

European Commission**,** Marie Skłodowska-Curie Actions Individual Fellowship — 2016-2018
Max Planck Institute for Psycholinguistics
Supervisor: Prof. Dr. Simon E. Fisher
Title: Defining the genetics of grapheme-colour synaesthesia (SynGenes)
Amount: €171,460.80

AWARDS AND HONORS

Cleveland Clinic/Case Western Reserve University

Doctoral Excellence Award in Molecular Medicine, Case Western Reserve University, 2015
F. Merlin Bumpus Junior Investigator Award, Cleveland Clinic Lerner Research Institute, 2014
1st Place Poster Award, Biomedical Graduate Student Symposium, Case Western Reserve University, 2014
Graduate Student Award, Neurological Institute Research Day, Cleveland Clinic, 2014

RESEARCH EXPERIENCE

Max Planck Institute for Psycholinguistics — Nijmegen, the Netherlands
Postdoctoral Research Staff, Language and Genetics Dept. — 07/2015 - Present
Project: Defining the genetics of synaesthesia
Supervisor: Prof. Dr. Simon E. Fisher

Cleveland Clinic — Cleveland, OH, USA
Postdoctoral Fellow, Genomic Medicine Institute — 10/2014 - 05/2015
Project: Cellular and transcriptomic phenotyping of a mouse model of cytoplasm-predominant Pten, with a focus on phenotypes relevant to Autism Spectrum Disorder.
Supervisor: Prof. Charis Eng, MD, PhD

Case Western Reserve University — Cleveland, OH, USA
Graduate Student, Genomic Medicine Institute, Cleveland Clinic — 07/2009 – 9/2014
Dissertation Research: Behavioral, cellular, and molecular phenotyping of a mouse model of cytoplasm-predominant Pten, with a focus on phenotypes relevant to Autism Spectrum Disorder.
Thesis Advisor: Prof. Charis Eng, MD, PhD
Clinical Mentor: Dr. Thomas W Frazier II, PhD

INSTITUTE/DEPARTMENTAL SERVICE

Max Planck Institute for Psycholinguistics, Radboud University
Course Instructor, Honors Academy Think Tank: Animal Research — 2016-2017
Publicity, Web, and Library Committees — 2016 – Present

Cleveland Clinic
Lerner Research Institute Graduate Student Association Steering Committee — 2013 – 2014
Molecular Medicine Student Retreat Planning Committee — 2011 – 2012

SUPERVISING, MENTORING ACTIVITIES

Max Planck Institute for Psycholinguistics
Ivo Van der Stelt, BA, Radboud University — 2017
Role: Co-supervisor of 6-month Master's internship focused on DNA structural variation as a contributor to language disorders.
B.A. Rudolph Foundation — Fall 2015
Role: Mentor to female undergraduate students pursuing unpaid internships in the sciences

Cleveland Clinic
Houriya Ayoubieh, MD, 3rd year resident in Internal Medicine, Cleveland Clinic — Fall 2014
Role: Supervisor during translational research rotation in the Eng Lab
Mary Gaugler, undergraduate student in Biology, Notre Dame University — 2011 - 2013
Role: Mentor, supervisor for summer research internships in the Eng laboratory.

MEETING ABSTRACTS

2016 Tilot AK, Kucera KS, Briscoe J, Skuse D, Fisher SE. Whole genome sequencing in a multigenerational family with a specific deficit in semantic cognition. Presented at the American Society for Human Genetics annual meeting, Vancouver, Canada, October.

2016 Tilot AK, Fisher SE. Decoding the genetics of synaesthesia through studies large and small. Poster presented at the Synaesthesia and Cross-Modal Perception conference, Dublin, Ireland.

2014 Tilot AK, Gaugler M, Yu Q, Romigh T, Yu W, Miller RH, Frazier TW 2nd, Eng C. The *Pten*^{m3m4} mouse: a model for high functioning autism spectrum disorder with neuroinflammation. Presented at the Biomedical Graduate Student Symposium, Case Western Reserve University, Cleveland, OH, May.

2011 Tilot AK, Gaugler M, Frazier TW, Eng C. PTEN and Autism Spectrum Disorders: new insights from a knock-in model of cytoplasm predominant Pten. Presented at the Cleveland Clinic Molecular Medicine Student Retreat, Cleveland, OH, April.

2008 Tilot AK, Jechura TJ. Effects of continuous phase shifts on pregnancy and offspring in *O. degus*. Presented at the Society for Research in Biological Rhythms Biannual Meeting, Destin, FL, May.

2007 Tilot AK, Jechura TJ. Examination of unihemispheric sleep in an Australian lizard, the bearded dragon (*Pogona vitticeps*). Presented at the Society for Neuroscience Annual Meeting, San Diego, CA, November.