WILLIAM **ZEIGER**

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EDUCATION

JUNE 2013
M.D., THE UNIVERSITY OF CHICAGO PRITZKER SCHOOL OF MEDICINE

- Graduation with honors
- Alpha Omega Alpha Honor Medical Society

AUGUST 2011
PH.D., THE UNIVERSITY OF CHICAGO

- Department: Molecular Pathology and Molecular Medicine
- Dissertation: Stanniocalcin 2 modulates store-operated calcium entry

MAY 2005
B.S., THE UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

- Major: Molecular and Cellular Biology Minor: Chemistry
- Graduated Summa Cum Laude
- Campus Honors Program Chancellor's Scholar; James Scholar Liberal Arts and Sciences Honors Program; Dean's List; Alpha Lambda Delta Fraternal Honors Society

RESEARCH & CLINICAL EXPERIENCE

JULY 2018 – JUNE 2020
MOVEMENT DISORDERS FELLOW, UNIVERSITY OF CALIFORNIA – LOS ANGELES

- Clinical fellow in the department of Movement Disorders
- Expertise in the diagnosis and management of conditions including Parkinson disease, atypical parkinsonism, tremor, dystonia, chorea, ataxia, myoclonus, tic disorders, and others

JULY 2015 – JUNE 2016; JULY 2018 – JUNE 2020
POST-DOC, UNIVERSITY OF CALIFORNIA – LOS ANGELES

- Working as a post-doc in the laboratory of Dr. Carlos Portera-Cailliau studying mechanisms of cortical plasticity after stroke
- Techniques include immunohistochemistry, transgenic mouse models, custom mouse behavioral assays, cranial window surgery, photothrombotic stroke models, in-vivo intrinsic optical signal imaging, and in-vivo two-photon imaging of cortical neuron activity

JULY 2016 – JUNE 2018
NEUROLOGY RESIDENT, UNIVERSITY OF CALIFORNIA – LOS ANGELES

- Completed PGY3 and PGY4 years of residency in Neurology
- Training included inpatient general neurology and stroke, neurology consultation services, movement disorders, neuromuscular medicine, neurobehavior, neurogenetics, psychiatry, and outpatient continuity clinic

JULY 2015 – JUNE 2016
NEUROLOGY RESIDENT, JOHNS HOPKINS HOSPITAL

- Completed PGY2 year of residency in Neurology
- Training included inpatient general neurology and stroke, neurocritical care, neurology consultation services, pediatric neurology, EEG/epilepsy, and outpatient continuity clinic

JULY 2014 – JUNE 2015

INTERN, UNIVERSITY OF CHICAGO

- Completed PGY1 year of residency in internal medicine
- Training included general medicine, hematology/oncology, cardiology, medical intensive care unit, cardiac critical care unit, emergency medicine, and urgent care clinic

JULY 2007 – JUNE 2011

GRADUATE STUDENT, UNIVERSITY OF CHICAGO

- Conducted and defended independent PhD thesis research in the lab of Dr. Gopal Thinakaran on the role of Stanniocalcin 2 in cellular calcium homeostasis and neuronal pathology, as well as the role of calcium signaling in the generation of beta-amyloid
- Techniques included molecular cloning, protein biochemistry, cell culture, transfection and transduction, immunohistochemistry and immunocytochemistry, live cell imaging of fluorescent proteins and calcium sensors, and mouse models of Alzheimer's disease

JANUARY 2003 – MAY 2005

UNDERGRADUATE RESEARCHER, THE UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

- Conducted an independent study project in the laboratory of Dr. Brian Freeman on the role of molecular chaperones in promoting the dynamics of transcriptional regulatory complexes and telomerase in S. cerevisiae

MAY 2004 – AUGUST 2004

UNDERGRADUATE RESEARCHER, NORTHWESTERN UNIVERSITY

- Worked in Dr. Richard Morimoto's lab studying polyglutamine aggregates, the heat shock response, and the unfolded protein response in C. elegans

OTHER TRAINING

JANUARY 2008 – JUNE 2012

PROGRAM IN PATHOBIOLOGY AND TRANSLATIONAL NEUROSCIENCE, UNIVERSITY OF CHICAGO

- Experiences included teaching assistant for Neurobiology of Disease course series, IRB proposal review, translational neuroscience journal club, and yearly symposium

MAY 2019

ENTERING MENTORING WORKSHOP, UNIVERSITY OF CALIFORNIA – LOS ANGELES

- Completed a workshop on effective mentorship
- Topics covered included maintaining effective communication, addressing equality and inclusion, fostering independence, and promoting professional development

PUBLICATIONS

- **Zeiger W**, DeBoer S, Probasco JC. “Patterns and Perceptions of Smartphone Use Amongst US Academic Neurologists”. 2020. Submitted.
- Cantu DA, Wang B, Gongwer MW, He CX, Goel A, Suresh A, Kourdougli N, Arroyo ED, **Zeiger W**, Portera-Cailliau C. “EZcalcium: Open Source Toolbox for Analysis of Calcium Imaging Data”. Front Neural Circuits. 2020 May 15.
- Karpf S, Riche C, di Carlo D, Goel A, **Zeiger WA**, Suresh A, Portera-Cailliau C, Jalali B. “Spectro-temporal encoded multiphoton microscopy and fluorescence lifetime imaging at kilohertz frame-rates.” Nat Comm. 2020. Apr 28;11(1):2062
- **Zeiger W**, Jamal NI, Scheuner MT, Pittman P, Raymond KM, Morra M, Mishra SK. “Probable Diagnosis of a Patient with Niemann-Pick Disease Type-C: Managing Pitfalls of Exome Sequencing.” JIMD Rep. 2018 Feb 17

- He CX, Cantu DA, Mantri S, **Zeiger WA**, Goel A, Portera-Cailliau C. “Tactile Defensiveness and Impaired Adaptation of Neuronal Activity in the Fmr1 Knock-Out Mouse Model of Autism.” J Neurosci. 2017 Jul 5;37(27):6475-6487
- **Zeiger W**, Sun L, Bosemani T, Pearl P, Stafstrom S. “Acute Infantile Encephalopathy as Presentation of Succinic Semialdehyde Dehydrogenase Deficiency.” Pediatric Neurology. 2016; 58:113-115
- Liebowitz JE, **Zeiger W**, Sotirchos E, Pardo-Villamizar C. (2015) “An Unusual Case of Progressive Multifocal Leukoencephalopathy in a Patient with Non-traditional Risk Factors.” J Neurol Disord 3: 247
- **Zeiger W**, Vetrivel KS, Buggia-Prévot V, Nguyen PD, Wagner SL, Villereal ML, Thinakaran G. “Ca2+ influx through store-operated Ca2+ channels reduces Alzheimer disease β-amyloid peptide secretion.” J Biol Chem. 2013 Sep 13;288(37):26955-66
- **Zeiger W**, Ito D, Swetlik C, Oh-hora M, Villereal ML, Thinakaran G. “Stanniocalcin 2 is a negative modulator of store-operated calcium entry.” Mol Cell Biol. 2011 Sep;31(18):3710-22
- Toogun OA, **Zeiger W**, Freeman BC. “The p23 molecular chaperone promotes functional telomerase complexes through DNA dissociation.” Proc Natl Acad Sci U S A. 2007 Apr 3;104(14):5765-70

PRESENTATIONS

- **Zeiger W**, Marosi M, Saggi S, He C, Portera-Cailliau C. "No evidence of functional peri-infarct circuit remapping in mouse somatosensory cortex after ischemic stroke." Society for Neuroscience Meeting, Chicago, IL, October 22nd, 2019
- **Zeiger W**, Marosi M, He CX, Liu G, Mesgarzadeh S, Saggi S, Le M, Chen C, Potera-Cailliau C. “Functional Remapping of the Mouse Somatosensory Cortex After ischemic Stroke”. American Academy of Neurology Annual Meeting. Los Angeles, CA. April 23, 2018
- **Zeiger W**, Marosi M, He CX, Liu G, Mesgarzadeh S, Saggi S, Le M, Chen C, Potera-Cailliau C. “Functional Remapping of the Mouse Somatosensory Cortex After Ischemic Stroke”. American Academy of Neurology Young Investigator Symposium. Los Angeles, CA. April 21, 2018. (ORAL PRESENTATION)
- **Zeiger W**, Marosi M, He CX, Mesgarzadeh S, Liu G, Potera-Cailliau C. “Functional Remapping of the Mouse Somatosensory Cortex After Ischemic Stroke”. UCLA Neurology Science Day. Los Angeles, CA. March 9, 2016
- **Zeiger W**, Vetrivel KS, Nguyen PD, Wagner SL, Villereal ML, Thinakaran G. “Ca2+ influx through store-operated Ca2+ channels reduces Alzheimer's disease Aβ secretion”. Pritzker School of Medicine Senior Scientific Session, Chicago, IL, May 15th, 2013. (ORAL PRESENTATION)
- **Zeiger W**, Vetrivel KS, Nguyen PD, Wagner SL, Villereal ML, Thinakaran G. “Ca2+ influx through store-operated Ca2+ channels reduces Alzheimer's disease Aβ secretion”. Chicago Symposium on Translational Neuroscience, Chicago, IL, May 10th, 2013
- **Zeiger W**, Ito D, Parent A, Villereal ML, Thinakaran G. “Stanniocalcin 2 Modulates Store-Operated Calcium Entry and Cellular Viability”. Chicago Symposium on Translational Neuroscience, Chicago, IL, May 20th, 2011
- **Zeiger W**, Ito D, Parent A, Villereal ML, Thinakaran G. “Stanniocalcin 2 Modulates Store-Operated Calcium Entry and Cellular Viability”. Society for Neuroscience Meeting, San Diego, CA, November 17th, 2010
- **Zeiger W**, Ito D, Parent A, Villereal ML, Thinakaran G. “Stanniocalcin 2 Modulates Store-Operated Calcium Entry and Cellular Viability”. Society for Neuroscience Meeting, Chicago, IL, October 17th, 2009
- **Zeiger W**, Ito D, Pei S, Morgan R, Parent A, Villereal ML, Thinakaran G. “Stanniocalcin 2 Modulates Store-Operated Calcium Entry and Cellular Viability”. Midwest Stress Response & Molecular Chaperone Meeting, Evanston, IL, January 17th, 2009. (ORAL PRESENTATION)
- **Zeiger W**, Ito D, Pei S, Morgan R, Parent A, Villereal ML, Thinakaran G. “Stanniocalcin 2 Modulates Store-Operated Calcium Entry and Cellular Viability”. Brain Research Foundation Chicago Neuroscience Day, Chicago, IL, Dec. 12, 2008
- **Zeiger W**, Ito D, Keat M, Pei S, Villereal ML, Thinkaran G. “Mechanism of Stanniocalcin 2 Mediated Neuroprotection”. Keystone Symposium: Alzheimer's Disease. Keystone, CO. March 24-29, 2008
- **Zeiger W**, Toogun TA, Barnes J, and Freeman BC. “Cell Cycle Dependent Association of Molecular Chaperones at the Telomere”. Midwest Stress Response and Molecular Chaperone Conference, Evanston, IL. Jan. 15, 2005

AWARDS & HONORS

University of California - Los Angeles

- The Jean-Louis Riehl Award for Outstanding Research as a Neurology Resident - June 2018
- The Augustus S. Rose Award for Excellence in Teaching - June 2018
- American Academy of Neurology Young Investigator Scholarship - April 2018
- Post-doctoral Poster Award, First Prize - Neurology Science Day - March 9, 2016
- Best Research Poster - UCLA Neurology Alumni Robert C. Collins Day - June 1st, 2017
- 2017 Excellence in Teaching with Humanism Residents and Fellows Award - David Geffen School of Medicine

University of Chicago

- American Academy of Neurology Medical Student Prize for Excellence in Neurology - 2013
- The Departmental Award for outstanding performance in the general field of Neurology - 2013
- Leon O. Jacobson Basic Science Prize - Pritzker School of Medicine Senior Scientific Session - 2013
- Graduate Student Poster Award - Brain Research Foundation Chicago Neuroscience Day - December 2008
- Best Overall Talk - Molecular Biosciences Retreat - April 2008
- Best Pathology Department Teaching Assistant - 2007-2008

University of Illinois at Urbana-Champaign

- Awarded High Distinction for Senior Thesis
- Roderick Macleod Award for Excellence in Cell Biology
- University Honors Bronze Tablet Award

LICENSURE, CERTIFICATIONS, & PROFESSIONAL MEMBERSHIPS

- California Medical License: A139994
- Medical Certification: Neurology, American Board of Neurology and Psychiatry
- Member, American Academy of Neurology
- Member, Society for Neuroscience
- Member, Movement Disorders Society

FUNDING

Ongoing Support

- American Academy of Neurology Neuroscience Research Training Award Zeiger (PI) 07/01/20-06/30/22
    - Parvalbumin Interneurons as Key Regulators of Cortical Circuit Remapping After Stroke
    - Role: Post-doctoral Fellow

- R25-NS065723 Carmichael (PI) 03/04/2009 – 06/30/2020 Translational Neuroscience Training Grant
    - The goal of this training grant is to support careers as physician-scientists for residents and fellows in the department of neurology. I am currently a fellow on this grant studying mechanisms of functional remapping after somatosensory stroke in the mouse.
    - Role: Post-doctoral Fellow

Previous Support

- F30-NS065660-01A1 Zeiger (PI) 01/01/2010 – 01/2013
- The Role of Stanniocalcin 2 in Calcium Homeostasis and Neuronal Pathology
- Role: Pre-doctoral Fellow

TEACHING EXPERIENCE

University of California - Los Angeles

- Medical Student Neurology Clerkship Casebook Discussion Leader – 2015, 2017, 2018, 2019
- Medical Neurosciences Problem Based Learning Tutor – 2016
- Neurology Resident Lectures – “Movement Disorders Exam” & “Cranial Nerve Pathology” – 2017; “Drug-induced Movement Disorders” – 2019

University of Chicago

- Medical Pathology, Teaching Assistant – 2007
- Neurobiology of Disease I, Teaching Assistant – 2008
- Neurobiology of Disease II, Teaching Assistant – 2008
- Clinical Pathophysiology & Therapeutics I, Teaching Assistant – 2012

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