

Christina E. Sabin

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EDUCATION

- 2018- PhD candidate. Department of Neuroscience, University of Georgia, Athens GA
Dissertation Project: The role of the retinal pigmented epithelium in albino *Anolis sagrei* lizards.
Major Professor: Dr. James D. Lauderdale and Dr. Douglas B. Menke
- 2012-2016 B.S. (Biology) magna cum laude, minor in Chemistry. Bryan College, Dayton, TN

RESEARCH SUPPORT

- 2020 Knights Templar Eye Foundation Travel Grant to attend the Association for Research in Vision and Ophthalmology (ARVO) annual meeting (\$750)
- 2019-2021 NIH training grant. T32 through the Genetics Department at the University of Georgia (\$28,000 annually)
- 2019 Graduate Student Travel Grant (\$500)

PUBLICATIONS

Peer-Reviewed

- Pathak, G., Agostino, MJ., Bishara, K., Capell, WR., Fisher, JL., Hegde, S., Ibrahim, BA, Pilarzyk, K., Sabin, C., Tuczkewycz, T., Wilson, S., Kelly, MP. 2017. PDE11A negatively regulates lithium responsivity. **Molecular Psychiatry** 22: 1714-1724

POSTERS / PRESENTATIONS

Posters

- 5/2021 *Investigating the Role of Ocular Shape Changes in Fovea Development in Chameleons along with Wild-Type and Albino Anole Lizards.* Association for Research in Vision and Ophthalmology. Virtual meeting.
- 11/2019 *Fovea Hypoplasia in Genetically Engineered Anole Lizards.* An invitation only meeting entitled John F Anderson Symposium-Aniridia, PAX6 and Beyond. Charlottesville, VA.
- 11/2019 *Fovea Hypoplasia in Genetically Engineered Anole Lizards.* UGA Developmental Biology Symposium. Athens, GA.
- 10/2019 *Fovea Hypoplasia in Genetically Engineered Anole Lizards.* Society for Neuroscience. Chicago, IL.

Presentations

- 11/2019 Fovea Hypoplasia in Genetically Engineered Anole Lizards. BioSocial Speaker Series at Bryan College. Dayton, TN
- 04/2016 *Phosphodiesterase 11: a possible indicator of the success rate of the lithium treatment in bipolar patients.* Bryan Center for Undergraduate Research Conference. Dayton, TN.
- 04/2015 *miRNA and multiple sclerosis: isolation of miRNA in the TGF β pathway which increase susceptibility to multiple sclerosis.* Bryan Center for Undergraduate Research Conference. Dayton, TN.

RESEARCH EXPERIENCE

- 2016-2018 Research Specialist. Department of Neuroscience, The Medical University of South Carolina, Charleston SC
Professor: Dr. Kumar Sambamurti
Manipulating the processing of the amyloid-beta precursor protein in amyloid-beta overexpressing mouse models of Alzheimer's
Skills utilized: mouse behavior assessment, mouse dissection, mouse breeding and colony upkeep, PCR, cell culture, Western blots, and ELISAs

AWARDS/HONORS

- 2016 Willard L. Henning Biology Award, senior Biology major of good character and noble reputation (\$500)
- 2016 Bryan Center for Undergraduate Research Paper Competition, 1st place winner. *Phosphodiesterase 11: a possible indicator of the success rate of the lithium treatment in bipolar patients*. Dayton, TN. (\$100)
- 2015 Bryan Center for Undergraduate Research Presentation Competition, 1st place winner *miRNA and multiple sclerosis: isolation of miRNA in the TGF β pathway which increase susceptibility to multiple sclerosis*. Dayton, TN. (\$100)
- 2015 R. Kent and Margie B. Mann Scholarship (\$1250)
- 2013 CRC Freshman Chemistry Achievement Award, highest grade in General Chemistry

TEACHING / MENTORING

Present and Past (UGA)

- 2019 Supervised Undergraduate Student Research/CURO Honors Thesis of Hannah Kim. *Axon Projections in Wildtype Anolis sagrei lizard*
I assisted Hannah with her *Anolis sagrei* project using Dil crystals to trace the axon projections from the optic nerve to the brain.
- 2019 Supervised Undergraduate Student Research of John Colclough.
John was optimizing a method of tracing retinal ganglion cells from the eye through the optic chiasm and into the brain, looking to distinguish ipsilateral retinal ganglion cells from contralateral retinal ganglion cells.
- Sum. 2019 Supervised Undergraduate Student Research for the Neuroscience Summer Undergraduate Research Experience of Ivy Khevali. *Visualizing Cell Cycle Kinetics in the Developing Anolis Retina*
Ivy's project was focused on when cells of the retina divide in the *Anolis sagrei* lizard.
- Sum. 2019 Supervised High School Student Research for the Young Dawg program for Julia Chang.
Julia treated embryonic lizard eggs with phenylthiourea to induce a fovea phenotype then imaged and sectioned eyes to look for a phenotypic change.

Past (The Principia Center)

- 2016 Fall semester. Instructor for 8th grade, Physical Science
I have experience teaching 8th graders weekly as we covered topics of physical science.

Past (Bryan College)

- 2017 Fall semester. Part Time Biology Assistant, Environmental Science
- 2013-2016 Academic Support Center Tutor at Bryan College
- 2016 Spring semester. Laboratory Assistant, Intro to Biology
- 2015-2016 Spring semesters. Teaching Assistant and Laboratory Assistant, General Chemistry II
- 2015 Fall semester. Laboratory Assistant, General Botany
- 2014-2015 Fall semesters. Teaching Assistant and Laboratory Assistant, General Chemistry I
- 2015 Spring semester. Teaching Assistant Earth Science Survey
While an undergraduate at Bryan College, I worked as a teaching assistant (teaching class, making and proctoring practicals, grading exams) laboratory assistant (assisting students in lab and preparing labs), and academic support center tutor (teaching biology, chemistry, and physics to peers who need one on one or small group tutoring).

OUTREACH / SERVICE

- 2013-2016 Tutoring Initiative Coordinator. Coordinated college students who volunteered to tutor local elementary to high school students.
- 2015-2016 Local Community Engagement Coordinator at Bryan College. Coordinated all the student led volunteer groups to the community through leading weekly meetings and one on one mentoring.