

Jacob Burnett

1050 Ivywood Dr.
Athens, GA 30606
email: burnett@uga.edu
phone: 904-699-1919

Curriculum Vitae

EDUCATION

- 2013– Ph.D. candidate, Genetics, University of Georgia
- 2010–2013 B.S., Biology (with honors), University of North Florida

AWARDS / HONORS

- 2016–2017 NIH T32 training grant recipient, Department of Genetics, University of Georgia (full stipend + travel)
- 2015–2016 NIH T32 training grant matching fellowship recipient co-sponsored by the Graduate School and Department of Genetics, University of Georgia (full stipend + travel)
- 2012 Transformational Learning Opportunity, University of North Florida (travel award)
- 2010–2013 Florida Medallion Scholarship (75% of tuition)

PUBLICATIONS

- (in prep) **Burnett JB***, Lupu FL*, Eggenschwiler JT. Dual roles for CCRK-dependent Hedgehog signaling during mammalian optic cup patterning and morphogenesis.
*Equal contribution
- (submitted) **Burnett JB***, Lupu FL*, Eggenschwiler JT. Proper ciliary assembly is critical for restricting Hedgehog signaling during mammalian eye development. Under review in *Dev. Biol.*
*Equal contribution
- 2015 Tetlak AG, **Burnett JB**, Hahn DA, and Hatle JD. Vitellogenin-RNAi and ovariectomy each increase lifespan, increase protein storage, and decrease feeding, but are not additive in grasshoppers. *Biogerontology* 16(6):761-774.

PRESENTATIONS / POSTERS

- 2017 **Burnett JB***. *Insight into optic cup patterning and morphogenesis from mouse ciliogenesis mutants*. Presentation at the Society for Developmental Biology, Southeastern Regional Conference, Kennesaw State University.
*selected from abstract submission
- 2017 **Burnett JB***. *Mouse ciliogenesis mutants reveal distinct requirement for Hedgehog signaling during optic cup development*. Presentation at the Developmental Biology Retreat, University of Georgia.
*selected from abstract submission
- 2017 **Burnett JB**. *Exploring primary cilia function during mammalian eye development*. Presentation at the cilia research group meeting, Emory University.
- 2016 **Burnett JB**, Lupu F, Eggenschwiler JT. *CCRK controls mammalian eye development by attenuating the Hedgehog pathway*. Poster at the Society for Developmental Biology, Southeastern Regional Conference, University of Florida.
- 2015 **Burnett JB**. *Mechanisms of early eye development: functional analysis of CCRK, IFT122, and IFT172 in mice*. Presentation at the developmental biology group meeting, University of Georgia.
- 2015 **Burnett JB**, Lupu F, Eggenschwiler JT. *The role of IFT122 in mouse eye development*. Poster at the Developmental Biology Retreat, University of Georgia.
- 2014 **Burnett JB**. *The role of IFT122 in mouse eye development*. Presentation at the Developmental Biology group meeting, University of Georgia.
- 2013 **Burnett JB***. Linquist AL, Hatle JD. *The effects of reducing reproduction on lifespan and antioxidant activity in the Eastern Lubber grasshopper*. Poster at the SOARS Conference, University of North Florida.
*awarded outstanding presentation

TEACHING / MENTORING

- 2017 Graduate Teaching Assistant for GENE3200 (Genetics) at the University of Georgia (scheduled for fall semester)
- 2017 Mentor for Kiana Myrick, SUNFIG undergraduate student researcher at the University of Georgia, summer semester

- 2017 Mentor for Bidushi Chandra, undergraduate student researcher in the Eggenschwiler Lab at the University of Georgia, spring and summer semester
- 2017 Mentor for Megan Wuthrich, undergraduate student researcher in the Eggenschwiler Lab at the University of Georgia, spring and summer semester
- 2016 Mentor for Sadhana Durbha, a Young Dawgs high school student researcher in the Eggenschwiler Lab at the University of Georgia, summer semester
- 2015 –2016 Mentor for Quinn MacDougald, undergraduate student researcher in the Eggenschwiler lab at the University of Georgia, fall and spring semester
- 2015 Graduate Teaching Assistant for CBIO3800 (Neurobiology) at the University of Georgia, spring semester

SERVICE/OUTREACH

- 2017 Co-president of the Developmental Biology Graduate Student Association, University of Georgia
- 2017 Served as project judge at the annual Georgia Science and Engineering Fair in Athens, GA
- 2016 Mentored middle school students from the STEM outreach and mentorship program presented by the University of Georgia Graduate and Professional Student Association
- 2016 Served as project judge at the annual Georgia Science and Engineering Fair in Athens, GA
- 2014–2015 Treasurer of the Genetics Graduate Student Association, University of Georgia
- 2014 Served as project judge at the annual Georgia Science and Engineering Fair in Athens, GA
- 2014 Conducted hands-on science activities at the annual Clarke County School District’s “Young Scientists Fair” in Athens, GA
- 2013 Displayed undergraduate research at the Florida Museum of Science and History in Jacksonville, FL

AFFILIATIONS

2016–2017 Graduate Student Member, Society for Developmental Biology

2012–2013 Undergraduate Student Member, Society for Integrative and Comparative Biology

2010–2013 Honors and Scholars Program, University of North Florida

REFERENCES

Jonathan Eggenschwiler, Ph.D.

Assistant Professor
University of Georgia
Department of Genetics
Paul D Coverdell Center, Room 210A
500 DW Brooks Drive
Athens, GA 30602
email: jeggensc@uga.edu
phone: 706-542-2813

Nancy Manley, Ph.D.

Distinguished Research Professor
University of Georgia
Department of Genetics
Paul D Coverdell Center, Room S270B
500 DW Brooks Drive
Athens, GA 30602
email: nmanley@uga.edu
phone: 706-542-5861

James D. Lauderdale, Ph.D.

Associate Professor
University of Georgia
Department of Cellular Biology
Paul D Coverdell Center, Room 250B
500 DW Brooks Drive
Athens, GA 30602
email: jdlauder@uga.edu
phone: 706-542-7433

Douglas Menke, Ph.D.

Associate Professor
University of Georgia
Department of Genetics
Paul D Coverdell Center, Room 250B

500 DW Brooks Drive
Athens, GA 30602
email: dmenke@uga.edu
phone: 706-542-9557