

ELIZABETH N. SCHOCK

Northwestern University
2220 Campus Dr.
Evanston, IL 60208

betsy.schock@northwestern.edu

(513) 277-1819

schocklab.com

Peer Reviewed Publications

- 2023 **Elizabeth N. Schock**, Joshua R. York, Ashlyn Y. Tu, Austin P. Li, and Carole LaBonne. "SoxB1 transcription factors are essential for initiating and maintaining the neural plate border gene regulatory network" **Development**. *In prep*
- 2023 Joshua R. York, Anjali Rao, Paul B. Huber, **Elizabeth N. Schock**, Sara Rigney, and Carole LaBonne, "A shared pluripotency and neural crest gene regulatory network evolved at the base of the vertebrates" **Nature Ecology and Evolution**. *In revision*
- 2023 Brett Horr, Ryan Kurtz, Ankit Pandey, Ben Hoffstrom, **Elizabeth Schock**, Carole LaBonne, and Dominique R Alfandari. "Production and Characterization of Monoclonal antibodies to Xenopus Proteins" **Development**. February 15, 2023, 150(4):dev201309. doi: 10.1242/dev.201309. [Cover Art](#)
- 2018 Ely Buitrago-Delgado, **Elizabeth N. Schock**, Kara Nordin, and Carole LaBonne. "A transition from SoxB1 to SoxE transcription factors is essential for progression from pluripotent blastula cells to neural crest cells" **Developmental Biology**. August 23, 2018, pii: S0012-1606(18)30259-8
- 2017 **Elizabeth N. Schock** and Samantha A. Brugmann. "Neural crest cells utilize primary cilia to regulate ventral forebrain morphogenesis via Hedgehog-dependent regulation of oriented cell division" **Developmental Biology**. September 21, 2017, 431: 168-178.
- 2017 **Elizabeth N. Schock***, Jaime N. Struve*, Ching-Fang, Chang*, Trevor J. Williams, John Snedeker, Aria C. Attia, Rolf W. Stottmann, and Samantha A. Brugmann. "A tissue-specific role for intraflagellar transport genes during craniofacial development." **PLoS One**. March 27, 2017 ;12(3):e0174206.
- 2017 John Snedeker, **Elizabeth N. Schock**, Jaime N. Struve, Ching-Fang Chang, Megan Cionni, Pamela V. Tran, Samantha A. Brugmann, Rolf W. Stottmann. "Unique spatiotemporal requirements for intraflagellar transport genes during forebrain development" **PLoS One**. March 14 2017, 12 (3): e0173258.

- 2016 Ya-Ting Chang, Praneet Chaturvedi, **Elizabeth N. Schock** and Samantha A. Brugmann. "Understanding mechanisms of GLI-mediated transcription during craniofacial development and disease using the ciliopathic mutant, *talpid²*", **Frontiers in Physiology**, October 2016, 7 (468): 1-13.
- 2015 **Elizabeth N. Schock**, Ching-Fang Chang, Jaime N. Struve, Ya-Ting Chang, Julie Chang, Mary E. Delany, and Samantha A. Brugmann. "Using the avian mutant *talpid²* as a disease model for understanding the oral-facial phenotypes of Oral-facial-digital syndrome." **Disease Models and Mechanisms**, August 2015, 8(8): 855-866.
- 2014 Ching-Fang Chang, **Elizabeth N. Schock**, Elizabeth O'Hare, Jerry Dodgson, Hans Chen, William M. Muir, Richard E. Edelman, Mary E. Delany, and Samantha Brugmann. "The Cellular and Molecular Etiology of the Craniofacial Defects in the Avian Ciliopathic Mutant, *talpid²*." **Development**. July 2014, 141 (15): 3003-3012.
- 2012 **Elizabeth N. Schock**, Windsor C. Ford, Kirsten J. Midgley, Joseph G. Fader, Michael N. Giavasis, and Michelle L. McWhorter. "The Effects of Carbaryl on the Development of Zebrafish (*Danio rerio*) Embryos." **Zebrafish**. December 2012, 9(4): 169-178.

Book Chapters and Reviews

- 2022 **Elizabeth N. Schock***, Joshua R. York*, and Carole LaBonne. "The Developmental and Evolutionary Origins of Cellular Pluripotency in the Vertebrate Neural Crest " **Seminars in Cell and Developmental Biology**. Semin Cell Dev Biol. 2023 Mar 30;138:36-44.
- 2020 **Elizabeth N. Schock** and Carole LaBonne. "Sorting Sox: Diverse Roles for Sox Transcription Factors during Neural Crest and Craniofacial Development" **Frontiers**. December 8, 2020; 11: p.606889
- 2017 **Elizabeth N. Schock** and Samantha A. Brugmann. "Discovery, diagnosis and etiology of craniofacial ciliopathies." **CSH Perspectives in Biology**, September 2017, 1;9(9).
- 2016 **Elizabeth N. Schock**, Ching-Fang Chang, Ingrid A. Youngworth, Megan, G. Davey, Mary E. Delany, and Samantha A. Brugmann. "Utilizing the chicken as an animal model for human craniofacial ciliopathies." **Developmental Biology**, July 15, 2016, 415(2):326-337.

- 2015 Ching-Fang Chang, **Elizabeth N. Schock**, Aria Attia, Rolf W. Stottmann, and Samantha A. Brugmann. "The Ciliary Baton: Orchestrating Neural Crest Cell Development." ***Current Topics in Developmental Biology***. 2015, 111: 97-134.
- 2015 Ching-Fang Chang, **Elizabeth N. Schock**, David A. Billmire, and Samantha A. Brugmann. "Craniofacial Syndromes: Etiology, Impact, and Treatment." ***Principles of Developmental Genetics, 2nd Edition***, Editor Sally A. Moody. Elsevier, New York. 2015, 654-671.