

Publications

Leiboff S, DeAllie C, Scanlon MJ. **Modeling the morphometric evolution of the maize shoot apical meristem**. *Frontiers in Plant Science*. November, 2016.
<https://doi.org/10.3389/fpls.2016.01651>.

Leiboff S, Li X, Hu HC, Todt N, Yang J, Li X, Yu X, Muehlbauer G, Timmermans MCP, Yu J, Schnable PS, Scanlon MJ. **Genetic control of morphometric diversity in the maize shoot apical meristem**. *Nature Communications*, 2015. 6: 8974.

Leiboff S, Scanlon MJ. "Plant Stem Cells" in **Molecular Cell Biology of the Growth and Differentiation of Plant Cells**. CRC Press, Boca Raton, FL. June 14, 2016.

Johnston R, Leiboff S, Scanlon MJ. **Ontogeny of the sheathing leaf base in maize (*Zea mays*)**. *New Phytologist*, 2015. 205(1):306-15

Bucksch A, Atta-Boateng A, Azihou AF, Battogtokh D, Baumgartner A, Binder BM, Braybrook SA, Chang C, Coneva V, DeWitt TJ, Fletcher AG, Gehan MA, Diaz-Martinez DH, Hong L, Iyer-Pascuzzi AS, Klein LL, Leiboff S, Li M, Lynch JP, Maizel A, Maloof JN, Markelz RJC, Martinez CC, Miller LA, Mio W, Palubicki W, Poorter H, Pradal C, Price CA, Puttonen E, Reese JB, Rellán-Álvarez R, Spalding EP, Sparks EE, Topp CN, Williams JH, Chitwood DH. **Morphological Plant Modeling: Unleashing Geometric and Topological Potential within the Plant Sciences**. *Frontiers in Plant Science*. June, 2017. <https://doi.org/10.3389/fpls.2017.00900>

Alandete-Saez M, Ron M, Leiboff S, McCormick S. **Arabidopsis thaliana GEX1 has dual functions in gametophyte development and early embryogenesis**. *Plant Journal*, 2011. 68(4):620-32

Fellowships

2016 NSF-NPGI-Postdoctoral Fellowship: IOS- 1612268
Exploring gene networks in maize tassel and sorghum panicle development during drought
PI – Leiboff S, Supervisor – Hake S
\$216,000 over 3 years

Presentations

2018 Maize Genetics Conference (Saint Malo, France):
"The RNAseq Time Machine: Species-specific shifts in developmental timing and trajectory underlie morphological differences in maize tassel and sorghum panicle architecture"

- 2015 Maize Genetics Conference (St. Charles, IL):
“Genes controlling morphometric diversity in the maize shoot apical meristem”
- 2014 Plant and Animal Genome (San Diego, CA):
“Creating a SAM Morphometric Space”

Awards

- 2016 Barbra McClintock Award, Cornell CALS
- 2015 Poster Prize Winner, Cornell CALS, SIPS Fall 2015 Retreat
- 2015 Poster Prize Winner, FASEB Mechanisms in Plant Biology
- 2013 Cornell CALS Outstanding TA Award, Department of Plant Biology

Teaching experience

Fall 2017: UC Berkeley PLANTBI 200A

Graduate Course, “Meristem size and stem cell maintenance,” Prof. Sarah Hake

Spring 2017: UC Berkeley PLANTBI 290

Graduate Seminar, “Command line RNAseq and differential expression,” Profs. Michael Freeling and Devin Coleman-Derr

Spring 2013: Cornell Plant Biology TA

Issues in Social Biology, Prof. Peter Davies

Fall 2012: Cornell Plant Biology TA

Intro to Plant Evolution and Biodiversity, Prof. Karl Niklas

Community participation

Fall 2017 – Current: Organizer, PGEC Postdoc Job Club

Fall 2012 – Spring 2014: President, Cornell University Plant Biology Graduate Student Association

Education

2017 PhD: Cornell University

**Morphological diversity and quantitative genetics
of the maize shoot apical meristem**

Division of Plant Biology, School of Integrative Plant Science

Advisor: Michael J Scanlon

2010 BSc: University of California, Berkeley

Environmental Sciences, emphasis Biological Sciences

Minor Forestry and Natural Resources