

Curriculum Vitae

Jason S. Lynn

February 12, 2020



General Information

University Address: Biological Science
College of Arts and Sciences
4004 King Life Sciences Building
Florida State University
Tallahassee, Florida 32306-4295
Phone: (305) 305-6252

Email Address: jlynn@bio.fsu.edu

Website: <http://bio.fsu.edu/~jlynn>

Education:

Est. 2020	Ph.D., Florida State University. Major: Biological Science
2014	B.S., Florida State University. Major: Biological Science
2014	B.S., Florida State University. Major: Psychology
2009	A.A., Miami-Dade Community College. Major: Business Administration

Professional Experience:

2019 – Present	Instructor of Record, Biological Science, Florida State University. Genetics and Human Inheritance for Non-Majors (BSC1005)
2014 – Present	Graduate Research Assistant, Biological Science, Florida State University. Characterization of proteins associated with <i>b1</i> hepta-tandem repeat in maize.
2014 – Present	Teaching Assistant, Biological Science, Florida State University. Introductory Biology Lab (BSC2011L), Microbiology Lab (MCB2004L), Genetics Lecture (PCB3063), Prokaryotic Biology Lecture (MCB4403), Prokaryotic Biology Lab (MCB4403L)
2013 – 2014	Laboratory Technician, Biological Science, Florida State University. Katherine Jones Lab. Plant-microbe interactions and phage genome structure.
2005 – 2009	Vice President of Operations, Ace Electric Generator Corp., North Miami, Florida.

Honors and Awards:

Nominated for Outstanding Teaching Assistant Award, Program For Instructional Excellence, Florida State University. (2020)

Graduate Travel Award, Maize Genetics Conference, St. Louis, MO., Department of Biological Science, Florida State University. (2019)

Best Scientific Impact, “Dragonfly on experimental maize”, Graduate Women in Science Art in STEM Competition, Florida State University. (2019)

Dissertation Research Grant, The Graduate School, Florida State University. (2016)

Nominated for Outstanding Teaching Assistant Award, Program for Instructional Excellence, Florida State University. (2015)

Publications:

Lynn, J.S. and McGinnis, K., (2020). Single-locus immunoprecipitation proteomics to characterize chromatin-interacting proteins of *cis*-elements. *Biotechniques*. (*in-review*)

Brewer, T. E., Washburn, B.K., **Lynn, J.S.**, Jones, K.M. (2018). The complete genome sequence of *Sinorhizobium* phage ΦM6, the first terrestrial phage of a marine phage group. *Microbiology Resource Announcements*. 7(13).

Huang, J*, **Lynn, J.S.***, Schulte, L.*, Vendramin, S.*, McGinnis, K., (2017). Epigenetic Control of Gene Expression in Maize. *International Review of Cell and Molecular Biology* 328, 25–48.

Johnson, M.C., Sena-Velez, M., Washburn, B.K., Platt, G.N., Lu, S., Brewer, T.E., **Lynn, J.S.**, Stroupe, M.E. (2017). Structure, proteome and genome of *Sinorhizobium meliloti* phage ΦM5: a virus with LUZ24-like morphology and a highly mosaic genome. *J. Structural Biology* 200(3), 343-359.

Johnson, M.C., Tatum, K.B., **Lynn, J.S.**, Brewer, T.E., Lu, S., Washburn, B.K., Stroupe, M.E., and Jones, K.M. (2015). *Sinorhizobium meliloti* phage ΦM9 defines a new group of T4-superfamily phages with unusual genomic features, but a common T=16 capsid. *J. Virol.* JVI.01353–15.

Oral and Poster Presentations:

Meiotic Drive – subverting Mendelian inheritance. Presented at the Plant Science Seminar, Florida State University, Tallahassee, FL. (2020)

Chromatin interaction maps in maize and the role of epigenetics and looping in QTLs. Presented at the Plant Science Seminar, Florida State University, Tallahassee, FL. (2019)

Characterization of *b1TR*-interacting proteins in transgene-mediated enhancer inactivation. Presented to The Cell and Molecular Biology Graduate Student Association, Tallahassee, FL. (2019)

Characterization of *b1TR*-interacting proteins in transgene-mediated enhancer inactivation. Invited Seminar, Presented at the Max Delbruck Laboratory Seminar, Cold Spring Harbor Laboratory, New York. (2019)

Characterization of *b1TR*-interacting proteins in transgene-mediated enhancer silencing. Lynn, J. S. and McGinnis, K. M., Poster presented at The Maize Genetics Conference, St. Louis, MO. (2019)

Transposable elements as purveyors of regulation. Presented to The Cell and Molecular Biology Graduate Student Association, Florida State University, Tallahassee, FL. (2018)

Characterizing the associated proteome of the *b1* paramutation locus. Presented to The Cell and Molecular Biology Graduate Student Association, Florida State University, Tallahassee, FL. (2018)

Transcriptional Memory of Drought Stress. Presented to The Cell and Molecular Biology Graduate Student Association, Florida State University, Tallahassee, FL. (2018)

The role of DNA methylation in the transgenerational inheritance of stress-induced phenotypes. Presented at the Plant Sciences Seminar, Florida State University, Tallahassee, FL. (2018)

Characterization of similarities in genome dominance between different plant lineages. Presented at the Plant Sciences Seminar, Florida State University, Tallahassee, FL. (2017)

Transgenerational epigenetic changes mediate adaptation to drought in rice. Presented at the Plant Sciences Seminar, Florida State University, Tallahassee, FL. (2017)

Transgenerational epigenetic inheritance in maize. Presented to The Cell and Molecular Biology Graduate Student Association, Florida State University, Tallahassee, FL. (2017)

Identifying regulators of *b1* paramutation at the *b1* tandem repeats. Presented to The Cell and Molecular Biology Graduate Student Association, Florida State University, Tallahassee, FL. (2016)

The role of 24-nt siRNA in transgenerational epigenetic inheritance. Presented at the Plant Sciences Seminar, Florida State University, Tallahassee, FL. (2016)

Genome-wide analysis of RNA-polymerase IV in *Zea mays*. Lynn, J. S. and McGinnis, K. M., Poster presented at The Maize Genetics Conference, Jacksonville, FL. (2016)

The paradoxical nature of noncoding transcription – Unraveling the mechanisms of RNA-directed DNA methylation. Presented at the NUPRIME workshop, Wakulla Springs Meeting Hall, Wakulla, FL. (2015)

Discussion of Lin et al., 2014, *A faster RuBisCo with potential to increase photosynthesis in crops*, Nature. Presented at the Plant Sciences Seminar, Florida State University, Tallahassee, FL. (2014)

Detecting variations in calcium concentration within the developing infection thread of *Sinorhizobium meliloti*. Lynn, J. S. and Jones, K. M., Poster presented at the Tri-Beta Biological Honor Society Poster Competition, Florida State University, Tallahassee, FL. (2013)

Walking across Israel: An awakening journey. Presented at the Brandeis University Women's Chapter, Broward College, Pembroke Pines, FL. (2009)

Graduate Coursework and Workshop Participation:

Bioinformatics (Spring 2019)

FSU College of Medicine Proteomics Workshop (2018)

Plant Molecular Biology (Fall 2018)

Nuclease Profiling as an Integrative Resource for Maize Epigenomics (NUPRIME) Workshop (2018)

Plant Physiology (Spring 2018)

New England Biolabs RNA-seq Library Preparation Workshop (2017)

Nuclease Profiling as an Integrative Resource for Maize Epigenomics (NUPRIME) Workshop (2015)

Advanced Cell Structure and Function (Spring 2015)

Advanced Molecular Biology (Fall 2014)

Undergraduate Mentorship:

Lemhert, Phebe. Junior, Honors Thesis, Bess H. Ward Award Recipient, WIMSE member, Florida State University. Investigating the epigenetic control of transcriptional memory of dehydration and drought stress in maize. (2016 – Present)

Martinez, Curt. NSF-REU Recipient, Florida State University. Proteomic analysis of chromatin associated with histone marks H3K9me2 and H3K27me3. (2016 – 2019)

Bencosme, Amlex. Sophomore, Florida State University. Quantifying the rate of *b1* tandem repeat enhancer silencing by *b1TR* transgenes. (2019 – Present)

Zumot, Nouri. Sophomore, Florida State University. The role of *Mop1* in the relative water content of maize leaves during dehydration stress. (2019 – Present)

Service and Memberships:

Secretary, The Cell and Molecular Graduate Student Association, FSU. (Jan. 2018 – Aug. 2019)

Judge, Raa Middle School Science Fair, Tallahassee, Florida. (Nov. 2018)

President, The Cell and Molecular Graduate Student Association, FSU. (Jan. 2016 – Dec. 2018)

Social Coordinator, The Cell and Molecular Graduate Student Association, FSU. (Aug. 2014 – Dec. 2015)

Member, American Association for the Advancement of Science. (Aug. 2014 – Present)

Member, Tri-Beta Biological Honor Society, FSU. (Aug. 2013 – Aug. 2014)

Member, Seminole SCUBA Club, FSU. (Aug. 2009 – Aug. 2014)