Curriculum Vitae Henry W. Bass

Last Revised: October 08, 2025

General Information

University address: Cell and Molecular Biology

Biological Science

College of Arts & Sciences

319 Stadium Drive Florida State University

Tallahassee, Florida 32306-4295

Phone: (850) 644-9711; Fax: (850) 645-8447

E-mail address: bass@bio.fsu.edu

Web site: http://www.bio.fsu.edu/faculty-bass.php

Professional Preparation

1992	Ph.D., North Carolina State University, Raleigh, NC. Major: Botany. Plant

Physiology. Supervisor: Dr. R. S. Boston.

non-degree student, University of Georgia, Athens, GA. Major: Botany.

Supervisor: Dr. G. A. Galau.

Bachelor of Science, University of Georgia, Athens, GA. Major: Plant

Pathology. Genetics.

1982 Associate of Arts, Oxford College of Emory University, Oxford, GA. Major:

Liberal Arts and Sciences/Liberal Studies.

Professional Experience

2016–present	Professor of Biological	Science, Biological S	Science, Florida State	University.

1998–present Courtesy Assistant Professor, Horticultural Sciences, University of Florida,

Gainesville, FL.

1998–present Graduate Faculty, Institute of Molecular Biophysics, Florida State University.

2005–2016 Associate Professor of Biological Science, Biological Science, Florida State

	University.
1998–2005	Assistant Professor of Biological Science, Biological Science, Florida State University.
1994–1997	Postdoctoral Fellow, Life Sciences Research Foundation, D.O.E.
1992–1997	Postdoctoral Fellow, University of California, Berkeley, and University of California, San Francisco. Postdoctoral research with Dr. W. Zacheus Cande (UCB) and John W. Sedat (UCSF).
1987–1992	Graduate Research Assistant, Botany, North Carolina State University. Graduate research with Dr. Rebecca S. Boston.
1985–1987	Research Scientist/Lab Technician, Botany, University of Georgia. Research with Dr. Glenn A. Galau.

Honors, Awards, and Prizes

University

Graduate Faculty Mentor Award, Florida State University (2023).

University Teaching Award for Community Engaged Teaching, Florida State University (2023). Honorary Professor of the Year, Beta Beta Biological Honor Society of Florida State University (2008).

Performance-based bonus award for Arts & Sciences faculty, College of Arts and Sciences, FSU (2002).

Sigma Xi Annual Award for Group Research, Sigma Xi, The Scientific Research Society, University of Georgia Chapter (1989).

Fellowship(s)

Life Sciences Research Foundation Post-Doctoral Fellow (1992–1995).

Current Membership in Professional Organizations

Sigma Xi, The Scientific Research Society
The American Association for the Advancement of Science (AAAS)
The American Society of Plant Biology
The Genetics Society of America
The Maize Genetics Cooperation

Teaching Preface: As a professor, I take a broad and active approach to teaching, integrating classroom materials with current events and incorporating feedback from students into the curriculum. My teaching style is informed by research and emphasizes the relevant application of knowledge, logic, and the scientific method. I am fully organized and prepared for each class, but also encourage classroom dialogue to foster engaged learning and help students develop and grow. I believe that by taking this approach, I can create a dynamic and engaging learning environment that helps students achieve their full potential.

Courses Taught

ADVANCED MOLEC BIOLOGY (PCB5595)

Directed Individual Study (BSC4900)

Genetics (BSC5900)

MAIZE GENETICS AND GENOMICS (BSC4901)

Seminar in Botany (BOT6936)

PLANT MOLECULAR BIOLOGY (BOT5938)

PLANT MOLECULAR BIOLOGY (BOT4394)

Graduate Tutorial in Biological Science (BSC5932)

Senior Tutorial in Biological Science (BSC4931)

GENERAL GENETICS (PCB3063)

HITM - Honors Work in Biological Science (BSC4970)

PLANT CYTOGENETICS (Exp Bio Lab) (BSC3402L)

Selected Topics in Biological Science (BSC4933)

MAZE GENETICS & GENOMICS (BSC4901)

MAIZE GENETICS AND GENOMICS (BSC4900)

Honors Work in Biological Science (BSC4970)

MAIZE GENETICS & GENOMICS (BSC4901)

Selected Topics in Biological Science (BSC5936)

Advanced Molecular Biology (BSC4933)

MAIZE GENOME RESEARCH (BSC4900)

PLANT GENETICS & GENOMICS (BSC4900)

DIS: (BSC5900)

MAIZE GENETICS (BSC4941)

Experimental Biology Laboratory (BSC3402L)

MAIZE RESEARCH REPORTS (BSC5932)

GENOME BIOINFORMATICS (BSC4900)

Plant Biology InThe21stCentury (BSC5936)

MOLECULAR CELL RESEARCH (BSC4900)

MOLECULAR GENETICS (BSC4900)

GENETICS RESEARCH (BSC4900)

Special Topics - MAIZE RESEARCH REPORTS (BSC5932)

COLCHICINE MEIOSIS (BSC4900)

G4 DNA COMP BIOL (BSC4900)

Genetics Research (PSY4920)

MEIOTIC COLCHICINE (BSC4900)

MOLECULAR GENETICS RESEARCH (BSC4900)

ADV MOLECULAR BIOLOGY (BSC4933)

GENERAL GENETICS (PCB3063-01)
Seminar in Genetics and Cell Biology (PCB6936)
Selected Topics in Botany (BOT5938)
Honors Work (CHM4906)
Directed Individual Study (MOB5905)
Selected Topics in Ecology and Evolutionary Biology (PCB5938)

Doctoral Committee Chair

- Akram, H. S., graduate. (2025). [Biological Science (CMB), College of Arts and Sciences]
 Turpin, Z., graduate. (2023). FUNCTIONAL GENOMIC ELEMENT DISCOVERY IN MAIZE
 (ZEA MAYS L.) THROUGH MICROCOCCAL NUCLEASE PROFILING OF
 CHROMATIN STRUCTURE. [Biological Science (CMB), College of Arts and Sciences]
- Vouzas, A., graduate. (2023). DISSECTING THE REGULATORS OF DNA REPLICATION TIMING. [Biological Science (CMB), College of Arts and Sciences]
- Turner, J. L., graduate. (2023). *EARLY REPLICATION CONTROL ELEMENTS ARE*DEVELOPMENTALLY REGULATED GENETIC DETERMINANTS OF REPLICATION

 TIMING AND REQUIRE TRANSCRIPTION FACTOR ACTIVITY. [Biological Science (CMB), College of Arts and Sciences]
- Bartlett, D. A., graduate. (2022). *Profiling the Mammilian Epigenome at Single-Cell Resolution*. [Biological Science (CMB), College of Arts and Sciences]
- Easterling, K., graduate. (2019). Cytogenetic Analysis of Male Meiosis in Humulus Lupulus L. (Hop): An Investigation of a Highly Structurally Variable Genome. Retrieved from http://purl.flvc.org/fsu/fd/2019_Fall_Easterling_fsu_0071E_15522 [Biological Science (CMB), College of Arts and Sciences]
- Gumber, H. K., graduate. (2019). *Identification and Characterization of Linker of Nucleoskeleton and Cytoskeleton (Linc) Complex Components in Maize (Zea mays L.) Meiosis and Development*. Retrieved from http://purl.flvc.org/fsu/fd/
 2019_Summer_Gumber_fsu_0071E_15267 [Biological Science (CMB), College of Arts and Sciences]
- Brown, A. N., graduate. (2011). *QTL Mapping and Candidate Gene Analysis of Telomere Length Control in Maize (Zea Mays L.)*. Retrieved from http://purl.flvc.org/fsu/fd/
 FSU migr etd-4741 [Biological Science (CMB), College of Arts and Sciences]
- Figueroa, D. M., graduate. (2011). Development of Pachytene Cytogenetic Fluorescence in Situ Hybridization (FISH) Maps for Six Maize Chromosomes: Insights into Genome Structure Dynamics. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-4828 [Biological Science (CMB), College of Arts and Sciences]
- Murphy, S. P., graduate. (2011). 3D Molecular Cytological and Genetic Analysis of the SUN-Domain (Sad1-Unc-84) Proteins in Maize (Zea Mays, L.) Meiosis; Discovery of a Novel Plant Sun Family, Including SUN3, a Candidate Gene for the Desynaptic1 (dy1) Mutant. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-5060 [Biological Science (CMB), College of Arts and Sciences]
- Amarillo, I. E., graduate. (2007). Construction and Analysis of a Transgenomic Cytogenetic Sorghum (Sorghum Propinguum)

 BAC Fish Map of Maize (Zea Mays L.)

- Pachytene Chromosome 9. Retrieved from http://purl.flvc.org/fsu/fd/
 FSU migr etd-0189 [Biological Science (CMB), College of Arts and Sciences]
- Drum, M. J., graduate. (2006). Expression of Axdazl and Axvh in Axolotl Germ Cells, Suggest that Regulative Germ Cells Specifications is a Primitive Trait Conserved in the Mammalian Lineage. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-0658 [Biological Science, College of Arts and Sciences]
- Marian, C. O., graduate. (2005). *Identification of Maize (Zea Mays L.) Genes Encoding Telomere Repeat DNA-Binding Proteins*. Retrieved from http://purl.flvc.org/fsu/fd/
 FSU migr_etd-2741

Adedibu, P. A., doctoral student. Agbola, P. S., doctoral student.

Doctoral Committee Cochair

Srinivasan, D., graduate. (2024). [Biological Science (CMB), College of Arts and Sciences] Datta, I., graduate. (2023). *Drosophila model of colorectal cancer reveals complex signaling networks mediating tumorigenesis*. [Biological Science (CMB), College of Arts and Sciences]

- Row, S., graduate. (2020). Characterizing Non-Typical Epithelial Behavior: Analysis of the Spatiotemporal Patterns of Patency, and a Study of Nonautonomous Cellular Compaction in Drosophila Melanogaster Follicular Epithelium. Retrieved from http://purl.flvc.org/fsu/fd/2020_Spring_Row_fsu_0071E_15737 [Biological Science (CMB), College of Arts and Sciences]
- Vera, D., graduate. (2014). *Nucleosome Fragility and Resistance: An Additional Dimension of Chromatin Structure Information in Eukaryotic Genomes*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-9263 [Biological Science (CMB), College of Arts and Sciences]
- Liu, H., graduate. (2009). *Genetic Studies of Cell Cycle Transition in Budding Yeast*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-1142 [Biological Science (CMB), College of Arts and Sciences]

Zelinka, C. P., doctoral candidate. [Biological Science (CMB), College of Arts and Sciences] Sheridan, B. K. M., doctoral student.

Doctoral Committee Member

Arambarri, L. N., graduate. (2025).

Benoit, J. M., graduate. (2025).

Garg, Y., graduate. (2024).

Sayed, S., graduate. (2024).

Walia, N., graduate. (2024).

Rubel Hoq, M., graduate. (2023).

Murray, D. T., graduate. (2021). Structure-Function Analysis of the Multicomponent Redox Enzyme Sulfite Reductase. Retrieved from http://purl.flvc.org/fsu/fd/

- <u>2021 Fall Murray fsu 0071E 16816</u> [Biological Science (CMB), College of Arts and Sciences]
- Schulte, L. M., graduate. (2021). Characterizing the Tissue-Specific and Epigenetic Gene Regulation of Transcriptional and Post-Transcriptional Responses in Maize. Retrieved from http://purl.flvc.org/fsu/fd/2021_Fall_Schulte_fsu_0071E_16870 [Biological Science (CMB), College of Arts and Sciences]
- Booker, W., graduate. (2020). Evolutionary History and Quaternary Origins of the Polyploid Gray Treefrog Complex (Hylidae: Hyla versicolor sensu lato). Retrieved from https://purl.lib.fsu.edu/diginole/2020_Summer_Fall_Booker_fsu_0071E_16250 [Biological Science (EE), College of Arts and Sciences]
- Lynn, J. S., graduate. (2020). *Epigenetic Influences on Chromatin-Interacting Proteins and Transcriptional Responses to Stress in Maize*. Retrieved from http://purl.flvc.org/fsu/fd/2020_Summer_Fall_Lynn_fsu_0071E_16031 [Biological Science (CMB), College of Arts and Sciences]
- Cole, L. A., graduate. (2020). *Chromatin-Based Organization of the Human Genome from Single Promoters to Nucleoskeletal Dynamics*. Retrieved from http://purl.flvc.org/fsu/fd/2020_Spring_Cole_fsu_0071E_15661 [Biological Science (CMB), College of Arts and Sciences]
- Koch, B. A., graduate. (2020). *Regulation at the Nuclear Envelope: Degradation and Remodeling in S. Cerevisiae*. Retrieved from https://purl.lib.fsu.edu/diginole/
 2020_Spring_Koch_fsu_0071E_15670 [Biological Science (CMB), College of Arts and Sciences]
- Vendramin Alegre, S., graduate. (2019). *Characterizing the Epigenetic Regulation of ABA-Induced Transcriptional Responses in Zea Mays*. Retrieved from http://purl.flvc.org/fsu/fd/2019_Fall_VendraminAlegre_fsu_0071E_15503 [Biological Science (CMB), College of Arts and Sciences]
- Fan, J., graduate. (2019). *Characterization of Linc Complex Assembly in Budding Yeast*. Retrieved from http://purl.flvc.org/fsu/fd/2019_Summer_Fan_fsu_0071E_15268 [Biological Science (CMB), College of Arts and Sciences]
- Klein, K., graduate. (2019).
- Darrow, E. M., graduate. (2018).
- Kopylov, M., graduate. (2017). *Insights into the Complex Formation between Nucleoside Diphosphate Kinase and a Highly Polymorphic DNA G-Quadruplex*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_FALL2017_Kopylov_fsu_0071E_14171
- Dileep, V., graduate. (2017). Replication Timing Regulation and Chromatin Structure Dynamics during the Cell Cycle and Development. Retrieved from http://purl.flvc.org/fsu/fd/FSU_SUMMER2017 Dileep fsu 0071E 14038
- Stroud, L. K., graduate. (2017). *Altered Nucleosome Positions at Transcription Start Sites in Maize Haplotypes and Mutants of Putative Chromatin Remodelers*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_SUMMER2017 Stroud fsu 0071E 13987
- Wilson, K. A., graduate. (2016). *Dynamics of Replication Timing, Chromatin Compartments, and Gene Expression Changes during Lineage Specification of Stem Cells*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_FA2016 Wilson fsu 0071E 13444
- Riskowski, R. A., graduate. (2016). *Theory and Applications of Surface Energy Transfer for 2-20 Nm Diameter Metal Nanoparticles*. Retrieved from http://purl.flvc.org/fsu/fd/

- FSU 2016SU Riskowski fsu 0071E 13408
- Sotolongo-Lopez, M., graduate. (2016). Sine Oculis Homologue Six7 Maintains Photoreceptor Diversity and Patterning in the Diurnal Zebrafish Retina. Retrieved from http://purl.flvc.org/fsu/fd/FSU_2016SP_SotolongoLopez_fsu_0071E_13092
- Mendis, B. H. C., graduate. (2015). *Importance of Molecular Weight and Succinylation of the Bacterial Exopolysaccharide Succinoglycan for the Symbiosis of Sinorhizobium Meliloti in the Host Plant Medicago Truncatula*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-9403
- Sexton, B. S., graduate. (2015). *Chromatin-Based Regulation and Maintenance of the Human Genome*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-9449
- Jones, E. H., graduate. (2012). Floral Morphology and Development in Houstonia Procumbens (Rubiaceae), a Uniquely Distylous, Cleistogamous Species. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-4934
- Ryba, T. R., graduate. (2012). *Cell and Disease Type Specific Fingerprints in the Mammalian Replication Program*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-5153
- Klusza, S. M., graduate. (2011). *Characterization of Germ-Line Endopolyploid Chromatin Dispersal in Drosophila Oogenesis*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-5746
- Kuipers, M. A., graduate. (2010). *Minichromosome Maintenance Protein Dynamics Throughout the Cell Cycle*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-2935
- Yang, F., graduate. (2010). *Role of Cyclophilin a in Hepatitis C Virus Life Cycle*. Retrieved from http://purl.flvc.org/fsu/fd/FSU migr etd-1041
- Lu, J., graduate. (2010). *Mechanism of Replication Timing Program in Mammalian Systems*. Retrieved from http://purl.flvc.org/fsu/fd/FSU migr etd-1019
- Liang, B., graduate. (2009). *Structural and Functional Studies of a RNA-Guided RNA Modification Enzyme: Box H/ACA RNP*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-7183
- Kwon, B. S., graduate. (2008).
- Rizkallah, R. M., graduate. (2008). *Phosphorylation of the Transcription Factor YY1*. Retrieved from http://purl.flvc.org/fsu/fd/FSU migr etd-4622
- Sherdan, D. M., graduate. (2008).
- Moriuchi, K. S., graduate. (2008).
- Chamberlain, K. L., graduate. (2007). *Gene Expression Profiling of Flagellar Length Control in Chlamydomonas Reinhardtii*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-0158
- Beyrouthy, M. J., graduate. (2007). Subcellular Localization of the Transcription Factor YY1 during Cellular Life and Death. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-1402
- Meng, F., graduate. (2007).
- Wu, F., graduate. (2006). *Elucidation of the Catalytic Mechanism of Two Fatty Acid-Metabolizing Enzymes Using EPR Spectroscopy*. Retrieved from http://purl.flvc.org/fsu/fd/FSU migr etd-0706
- Hereford, J., graduate. (2005). *Role of Local Adaptation in the Evolution of Reproductive Isolation in Diodia Teres*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-4095 Palko, L., graduate. (2001).

Masi, T., graduate. (2001).

Awiaga, C. K., doctoral candidate.

Behrouz Sharif, S., doctoral candidate.

Bilodeau, K. M., doctoral candidate.

Dilliplane, J. A., doctoral candidate.

Ebuara, F. U., doctoral candidate.

Fisher, G. T., doctoral candidate.

Gebreab, Y. B., doctoral candidate.

Kalpetta Gramathil, A., doctoral candidate.

Koirtyohann, K., doctoral candidate.

Redfern, B. L., doctoral candidate.

Fang, Y., doctoral student.

Kallam, Y. R., doctoral student.

Storch, N. A., doctoral student.

Tyagi, M., doctoral student.

Doctoral Committee University Representative

- Zhang, L., graduate. (2025). [Computer Science, College of Arts and Sciences]
- Weeks, K. N., graduate. (2025). *Developing Copper-Catalyzed Reactions: Mechanistic Insight and Value-Added Products*. [Chemistry and Biochemistry, College of Arts and Sciences]
- Hagemeyer, C., graduate. (2024). [Biomedical Sciences, College of Medicine]
- Lee, K., graduate. (2023). TOWARDS A CURE FOR DIABETES MELLITUS: REGENERATING HUMAN PANCREATIC BETA CELLS. [Biomedical Sciences, College of Medicine]
- Yong, H. J., graduate. (2023). TOWARDS A CURE FOR DIABETES MELLITUS:

 REGENERATING HUMAN PANCREATIC BETA CELLS. [Biomedical Sciences, College of Medicine]
- Han, Na-eun, graduate. (2022). *Building a Community of Practice of Research Data Curators: a Qualitative Study*. [School of Information, College of Information & Communication]
- Zhong, D., graduate. (2021). *Model-Based Framework for High-Throughput Genomic Data Enhancement*. Retrieved from http://purl.flvc.org/fsu/fd/
 2021 Summer Zhong fsu 0071E 16710 [Statistics, College of Arts and Sciences]
 - G. D. graduate (2021) [Geography College of Social Sciences and Public Policy
- Burris, G. D., graduate. (2021). [Geography, College of Social Sciences and Public Policy]
- Daykin, K. L., graduate. (2017). Development and Characterization of Bodipy-Zinc(II) and Rhodamine-Reactive Oxygen Species (Ros) Fluorescent Indicators for Use in Live Cell Imaging. Retrieved from http://purl.flvc.org/fsu/fd/
 - FSU SUMMER2017 Daykin fsu 0071E 14071 [Chemistry and Biochemistry, College of Arts and Sciences]
- Jarrett, A. M., graduate. (2016). *Investigating Persistent Infections Using Mathematical Modeling and Analyses*. Retrieved from http://purl.flvc.org/fsu/fd/
 FSU 2016SP Jarrett fsu 0071E 13046 [Math, College of Arts and Sciences]
- Tesfazghi, M. T., graduate. (2016). Recruitment of the Transcription Factor YY1 to DNA Damage Sites in Human Cells. Retrieved from http://purl.flvc.org/fsu/fd/
 FSU 2016SP Tesfazghi fsu 0071E 13160 [Biomedical Sciences, College of Medicine]

- Wu, S., graduate. (2014). Exploring the Data Work Organization of the Gene Ontology.

 Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-9267 [School of Library and Information Studies, College of Communication and Information]
- Zhang, Y., graduate. (2014). *Computational Models and Algorithms for Nucleosome Positioning*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-9275 [Computer Science, College of Arts and Sciences]
- Fincher, J. A., graduate. (2012). Creation and Modification of Models of Nucleosome Occupancy and Their Applications Across Multiple Species. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-4829 [Computer Science, College of Arts and Sciences]
- Riman, S. F., graduate. (2011). *Mechanisms Regulating YYI Cleavage during Apoptosis*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-7217 [Biomedical Sciences, College of Medicine]
- Santollo, J. C., graduate. (2010). *Estradiol, MCH and Food Intake*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-2081 [Psychology, College of Arts and Sciences]
- Desai, K. K., graduate. (2010). *Metabolic and Functional Plasticity in Bacteria Revealed with Genetic Selections for Triosephosphate Isomerase Activity and Bromoacetate Resistance*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-4608 [Chemistry and Biochemistry, College of Arts and Sciences]
- Huang, H., graduate. (2010). *Perception of Quality in Genome Annotation Work*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-3677 [Accounting]
- Sharkey, J. T., graduate. (2009). *Melatonin Regulation of the Oxytocin System in the Pregnant Human Uterus*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-1791 [Biomedical Sciences, College of Medicine]
- Chang, A. H., doctoral candidate. [Biomedical Sciences, College of Medicine]

Modak, C., doctoral candidate.

Muti, S. C., doctoral student.

Toledo, M. P., doctoral student.

Master's Committee Chair

Moore, J. M., graduate. (2009). *Investigating the DNA Binding Properties of the Initiator Binding Protein 2 (IBP2) in Maize (Zea Mays)*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-2306

Koumbaris, G., graduate. (2003). Cytogenetic mapping of genes in maize.

Master's Committee Member

Brar, A. K., graduate. (2020).

- Adeyewa, T. T., graduate. (2019). [Nutrition and Food Science, Dept. Nutrition, Food and Exercise Science]
- Li, J., graduate. (2015). Functional Characterization of Protein O-GlcNAcylation in Plants.

 Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-9639 [Cell and Molecular Biology, Department of Biological Science]

- Boerner, S. L., graduate. (2012). *Identification and Classification of Long Non-Coding RNA in Zea Mays Using Computational and Bioinformatic Approaches*. Retrieved from http://purl.flvc.org/fsu/fd/FSU migr etd-4724
- Poduch, K. N., graduate. (2010). *Investigation of the Effects of G9a Knockout on Subnuclear Localization and Replication Timing of G9a Repressed Genes When Integrated into an Early Replicating Region*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-0634
- Wang, M., graduate. (2010). Scc3 Is Required for Sister Chromatid Cohesion and Rec8 Production during Meiosis in Sacchromyces Cerevisiae. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-4619
- Lowenberg, M. M., graduate. (2009). *Association of Pectobacterium, a Plant Pathogen, with the Carapace of the Caribbean Spiny Lobster, Panulirus Argus*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-1028
- Chattopadhyay, M., graduate. (2007). *Gene Expression in Leaves, Mesophyll Tissues and Guard Cells of Arabidopsis Thaliana and the Effect of Sucrose*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migretd-3872
- Imber, A. N., graduate. (2006). *Structure Variations in Lipoxygenase: Mutagenesis of Soybean Lipoxygenase-1*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_migr_etd-3882
 Jiang, T., graduate. (2003).

Bachelor's Committee Chair

- Singh, Shivansh (Ayush), graduate. (2023). Bioinformatic Analysis of Transcription Factor Binding in Response to Hypoxia Using Next-Generation Sequencing Data.
- Glover, Z. S., graduate. (2022). Analysis Of Micrococcal Nuclease Properties Relative to Chromatin Profiling Assays in Maize and Human.
- Salihovic, H. F., graduate. (2021). *Identification of Transposable Element Families in Zea Mays that Exhibit Tissue-Specific Variation in Chromatin Structure*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_libsubv1_scholarship_submission_1618590014_e13aea24
- Hagemeyer, C. J., graduate. (2018). *Transcriptome analysis of flood-induced hypoxia in maize* (Zea mays) seedling shoots. Retrieved from http://purl.flvc.org/fsu/fd/
 FSU libsubv1 scholarship submission 1533651783 b354e488
- Savadel, S. D., graduate. (2018). *Mapping and Analysis of Open Chromatin in Developing Ears of Maize*. Retrieved from http://purl.flvc.org/fsu/fd/
 FSU libsubv1 scholarship submission 1524852658 e99e69f5
- Griffin, B. D., graduate. (2017). *Investigating the role of G-quadruplex (G4) DNA in maize (Zea mays) gene regulation*. Retrieved from http://purl.flvc.org/fsu/fd/FSU libsubv1 scholarship submission 1510763140 03ceaa37
- Davenport, D. R., graduate. (2012). *HITM Thesis: Mapping the sterile/lethal desynaptic1 mutation of maize (Zea mays)*.
- Howe, E. S., graduate. (2011). *Microscopic analysis of transgenic maize lines expressing a fluorescent Histone, H2B::mCherry*.
- Beckham, K. D., graduate. (2009). Bioinformatic and molecular selection of sorghum (S. propinquum) BAC clones for use as FISH probes for on maize chromosomes 2, 7, and 10 of maize (Zea mays L.).

Bachelor's Committee Member

Mihalilovic, S., graduate. (2017). Effects of genes involving cell shape change on tumorigenesis in the salivary gland imaginal ring of Drosophila melanogaster. Retrieved from http://purl.flvc.org/fsu/fd/FSU libsubv1 scholarship submission 1512575130 0392ea3e

Tremblay, N., graduate. (2017). *Notch Overexpression During Epithelial Tumorigenesis: The Role Of NICD As An Oncogene In An Lgl Knockdown System*. Retrieved from http://purl.flvc.org/fsu/fd/FSU_libsubv1_scholarship_submission_1501199321_cdb04b9d

Mills, E. S., graduate. (2011). *Characterization of Maize Transgene-Reactivated Mutants*. Retrieved from http://purl.flvc.org/fsu/fd/FSU migr uhm-0028

Elios, M. C., graduate. (2009).

Swetnam, D. M., graduate. (2008).

Toledo, N., graduate. (2008).

Griffin, L. M., graduate. (2006).

Instructor for 3D FISH Training School (EU COST Action INDEPTH)

Bass, H. (2018). One of three instructors for week-long 3D FISH training workshop, teaching students from 10 countries how to do 3D acrylamide FISH with fluorescent oligo probes. EU COST Action INDEPTH.

Undergraduate; American Cancer Society (ACS) FE Fisher Fellow

Lastra, E. G. (2008). Lastra (EGL); ACS Fisher Fellow, DIS. Florida State University.

Lorenzen, J. A. (2008). Lorenzen (JAL); ACS Fisher fellow, CM McAllister scholar, DIS. Florida State University.

Bordoli, S. J. (2001). Bordoli (SJB); ACS Fisher Fellow, lab tech, DIS. Florida State University.

Santarella, R. A. (2001). Santarella (RAS); ACS Fisher Fellow, DIS. Florida State University.

Undergraduate; Federal Work Study (FWS)

Bussey, K. C. (2017–2018). Bussey (KCB); FWS, Lab Tech, Vaugh-Jordan, FE Fisher, JM Caffree Fellow.

Allen, D. M. (2016–2017). Allen (DMA); FWS, Lab and field technician.

Lacatusu, D. A. (2016–2017). Lacatusu (DAL); FWS, Lab technician.

Estrada, A. L. (2015–2017). Estrada (ALE); FWS, Lab Tech, Field Tech.

Ridgway, S. W. (2013–2015). Ridgway (SWR); FWS, lab tech, volunteer.

Joseph, S. R. (2011–2013). *Joseph, (SRJ); FWS, NSF-REU*.

Almarales, M. D. (2010–2011). Almarales (MDA); FWS, lab tech.

Coleman, K. C. (2010). Coleman (KCC); FWS. Florida State University.

Ford, D. C. (2010). Ford (DCF); FWS, lab tech. Florida State University.

Maleki, O. R. (2010–2011). Maleki (ORM); FWS, field tech, lab tech.

Reaves, J. J. (2009–2012). Reaves (JJR); FWS, lab tech, NSF-REU, field tech, DIS.

Sanchez, N. A. (2009–2010). Sanchez (NAS); FWS. Florida State University.

Undergraduate; FSU Research Opportunity Program (UROP)

Savadel, S. D. (2014). Savadel (SDS); UROP 2014-15, CRE IDEA grantee (2016), NSF-URA, HITM. FSU UROP.

Undergraduate; FSU Women in Math, Science, and Engineering (WIMSE)

Griffin, B. D. (2014–2017). *Griffin (BDG); WIMSE, NSF-URA, Vaughn-Jordan & FE Fisher Fellow, HITM.* WIMSE, http://wimse.fsu.edu/.

Howe, E. S. (2009–2011). Howe, (ESH); WIMSE, McAllister awardee, Caffrey awardee, lab tech, Honors in the Major.

Undergraduate; NSF Research Experience for Undergraduates (NSF-REU)

Hussain, A. F. (2009). Hussain (AEF); NSF-REU, DIS. Florida State University.

Davis, J. D. (2008). Davis (JDD); NSF-REU, DIS. Florida State University.

Beckham, K. D. (2006–2009). *Beckham (KDB); NSF-REU, URACE awardee, and Bess Ward Awardee*. Florida State University.

Figueroa, D. M. (2004). Figueroa (DMF); NSF-REU, lab tech, DIS. Florida State University.

Jones, E. H. (2004). Jones (EHJ); NSF-REU, ACS Fisher fellow, DIS. Florida State University.

Steele, T. M. (2002). Steele (TMS); lab tech, NSF-REU, DIS. Florida State University.

Undergraduate; Various Other Research Capacities in Bass Lab

Limeres, G. I. (2024). Gabby (GIL); Lab Technician.

Monjur, H. (2024). Haseeb (HM); computatioal biology major project.

Kurdi, J. (2024). Joud (JMK); UROP.

Youngberg, M. K. (2024). Mary (MKY); UROP.

Downing, S. J. (2024). Sarah (SJD); UROP.

Nazario, S. (2024). Sofia (SMN); UROP.

Askar, S. E. (2024). Sohaila (SEA); UROP.

Similien, Y. (2023). Yaya (SS); UROP.

Hambuchen, C. A. (2022). Calie (CAH); DIS, lab & field technician.

Flores, T. V. (2022–2024). Tammy (TVF); DIS, Lab & Field Technician.

Sheridan, B. K. M. (2021–2023). Bianca (BKMS); Lab and Field Technician.

Allison, R. V. (2018). Allison (RVA); DIS, Bioinformatician.

Kartick, A. C. (2018). Kartick (ACK); Volunteer, DIS.

Salihovic, H. F. (2018). Salihovic (HFS); Volunteer, DIS.

Aguino, J. R. (2017–2018). *Aguino (AEF); DIS, Lab Tech*.

Jalovec, A. M. (2017). Jalovec (AMJ); DIS, Field Tech.

Farran, A. (2015). Farran (AEF); DIS.

Fox, B. A. (2015–2016). Fox (BAF); DIS.

Hagemeyer, C. J. (2015–2018). Hagemeyer (CJH); volunteer, DIS.

Rosenfield, J. M. (2015–2016). Rosenfield (JMR); volunteer, DIS.

Winn, M. W. (2015). Winn (MNW); DIS (2015-2016).

Habashy, C. M. (2013–2014). Habashy (CMH); volunteer, DIS.

Hearn, C. E. (2012–2014). Hearn (CEH); volunteer, DIS.

Easterling, K. A. (2010–2012). Easterling (KAE); FSU MRCE awardee, field tech, lab tech, DIS.

Davenport, D. R. (2009–2011). Davenport (DRD); volunteer, DIS, Honors in the Major.

McHill, T. M. (2009). McHill (TMM); lab tech, field tech, DIS. Florida State University.

Vera, D. L. (2009–2010). Vera (DLV); volunteer, DIS. Florida State University.

Applewhite, H. (2008). Applewhite (HSA); lab tech, field tech. Florida State University.

Fredette, N. C. (2008). Fredette (NCF); FE Fisher awardee, lab tech, field tech, DIS. Florida State University.

Gabriel, R. E. (2008). Gabriel (REG); lab tech, field tech. Florida State University.

Price, G. E. (2008–2009). Price (GEP); lab tech, DIS. Florida State University.

Win, A. M. (2008). Win (AMW); lab tech. Florida State University.

Price, K. L. (2007–2009). Price (KLP); lab tech, field tech, DIS. Florida State University.

Ritchie, L. B. (2007). *Ritchey (LBR); lab tech, DIS.* Florida State University.

Morganti, A. T. (2006). Morganti (ATM); outreach worker, DIS. Florida State University.

St Jean, D. (2005–2009). *St. Jean (DSJ); lab tech, field tech, outreach organizer*. Florida State University.

Jackson, L. P. (2002). Jackson (LPJ); lab tech, and DIS. Florida State University.

Foss, E. M. (2000). Foss (EMF); lab tech, DIS. Florida State University.

Kang, L. C. (2000). Kang (LCK); lab tech, DIS. Florida State University.

Hughes, A. K. (1999). *Hughes (AKH); volunteer, DIS.* Florida State University.

Research and Original Creative Work

Research Preface: As a professor, my research investigates fundamental questions about inheritance and the nature of genetic material at the cellular and molecular level using maize as a model system. Specific areas of focus include the role of telomeres and the nuclear envelope in meiotic chromosome behavior, chromatin structure and genome response in plants, gene regulation, and genome replication. My research employs a range of genetic, genomic, and microscopic experimental approaches, driven by curiosity and a desire to understand the structure-function relationships that control an organism's genetic material. I view basic scientific research and its publication as essential for improving the human condition and focus on explanatory and discovery-based research carried out primarily at my university, often in collaboration with local, national, and international partners. Within my disciplines of molecular biology, genetics, cell biology, and genomics, each primary literature publication typically reflects approximately 2,000-5,000 person-hours of work, the result of multiple years of research. For these articles, the "senior author" refers to the primary laboratory head, the "first author" is the person who did most of the work, and the "corresponding author" is the official article contact person. Co-authors are ranked in order of their contribution.

Program of Research and/or Focus of Original Creative Work

My research program investigates the cellular biology, genetics, and molecular biology of maize, with a focus on understanding the mechanisms that control chromosome biology during meiosis, as well as aspects of genomic response and replication. Using wet bench and bioinformatic approaches, I aim to uncover fundamental mechanisms that control the structure and function of genetic material at the cellular and molecular level.

Publications

Refereed Journal Articles

- Akram, H. S., Wear, E. A., Mickleson-Young, L., Turpin, Z. M., Hanley-Bowdoin, L., Thompson, W. F., Concia, L., & Bass, H. W. (submitted). Replication Timing Uncovers a Two-Compartment Nuclear Architecture of Interphase Euchromatin. *The Plant Cell*. Manuscript submitted for publication.
- Singh, A., Pastukh, V., Roberts, J., Turpin, Z. M., Daly, G. T., Benoit, J. M., Gillespie, M. N., & Bass, H. W. (submitted). The cistrome response to hypoxia in human umbilical vein endothelial cells. *Nucleic Acids Research Genomics and Bioinformatics*. Manuscript submitted for publication.
- Benoit, J. M., Buck, B. D., Khadem, M., Bass, H. W., & Dennis, J. H. (2025). Dynamic nucleosome redistribution and increases in nucleosome sensitivity underpin THP-1 macrophage response to LPS. *Journal of Leukocyte Biology*, *117*(10), 15. Retrieved from https://doi.org/10.1093/jleuko/qiaf067 doi:10.1093/jleuko/qiaf067
- Benoit, J. M., Buck, B. D., Khadem, M., Bass, H. W., & Dennis, J. H. (2025). Transient alterations in nucleosome distribution and sensitivity to nuclease define the THP-1 monocyte to macrophage transition. *Journal of Leukocyte Biology*, 117(10), 15. Retrieved

- Wear, E. A., Mickleson-Young, L., Bass, H. W., Hanley-Bowdoin, L., Thompson, W. F., & Concia, L. (2025). Comparison of transcriptional activity profiling by metabolic labeling or nuclear RNA sequencing. *The Plant Journal*, 123, e70401. doi:10.1111/tpj.70401
- Englehorn, J., Snodgrass, J. J., Kok, A., Seetharam, A. S., Schneider, M., Kiwit, T., Singh, A., Banf, M., Doan, T. H. D., Khaipho-Burch, M., Runcie, D. E., Sanchez-Camargo, V. A., Bader, R., (six others), Bass, H. W., Hufford, M. B., Stich, B., Frommer, W. B., Ross-Ibarra, J., & Hartwig, T. (2025). Genetic variation at transcription factor binding sites largely explains phenotypic heritability in maize. *Nature Genetics*, *110*(1). doi:10.1038/s41588-025-02246-7
- Wheeler, E. A., Mickleson-Young, L., Wear, E. A., Burroughs, M., Bass, H. W., Concia, L., Thompson, W. F., & Hanley-Bowdoin, L. (2025). A comparison of genomic methods to assess DNA replication timing. *Scientific Reports*, *15*, *17761*. doi:http://dx.doi.org/10.1038/s41598-025-02699-0
- Hu, G., Grover, C., Vera, D. L., Lung, P-Y, Girimurugan, S., Miller, E., Conover, J., Ou, S., Xiong, X., Zhu, D., Li, D., Gallagher, J., Udall, J., Sui, X., Zhang, J., Bass, H. W., & Wendel, J. (2024). Evolutionary dynamics of chromatin structure and duplicate gene expression in diploid and allopolyploid cotton. *Molecular Biology and Evolution*, 110(1). doi:10.1093/molbev/msae095
- Zhang, L., Bass, H. W., Irianto, J., & Mallory, X. (2023). Integrating SNVs and CNAs on a phylogenetic tree from single-cell DNA sequencing data. *Genome Research*, 110(1). doi:10.1080/19491034.2019.1629795
- Daly, G. T., Pastukh, V. M., Yong, B. T., Francis, M. C., Aggen, C. Z., Groark, S. C., Edwards, C., Mulekar, M. S., Hamo, M., Simmons, J. D., Kutcher, M. E., Hartsell, E. M., Dinwiddie, D. L., Turpin, Z. M., Bass, H. W., Gillespie, M. N., Roberts, J. T., & Langley, R. J. (2022). Novel Attributes of Cell-free Plasma Mitochondrial DNA in Traumatic Injury. *Clinical And Translational Medicine*. doi:10.1002/ctm2.1055
- Park, M., Williams, D. S., Turpin, Z. M., Wiggins, Z. J., Tsolova, V. M., Onokpise, O. U., & Bass, H. W. (2021). Differential Nuclease Sensitivity Profiling Uncovers a Drought Responsive Change in Maize Leaf Chromatin Structure for two Large Retrotransposon Derivatives, Uloh and Vegu. *Plant Direct*, *5*(8), e337. doi:10.1002/pld3.337
- Savadel, S. D., Hartwig, T., Turpin, Z. M., Vera, D. L., Lung, Pei-Yau, Sui, X., Blank, M., Frommer, W. B., Dennis, J. H., Zhang, J., & Bass, H. W. (2021). The native cistrome and sequence motif families of the maize ear. *PLOS Genetics*, *17*(8), e1009689. doi: 10.1371/journal.pgen.1009689
- McKenna, J. F., Gumber, H. K., Turpin, Z. M., Jalovec, A. M., Kartick, A. C., Graumann, K., &

- Bass, H. W. (2021). Maize (Zea mays L.) nucleoskeletal proteins regulate nuclear envelope remodeling and function in stomatal complex development and pollen viability. *Frontiers in Plant Science*, *12*, 16. doi:10.3389/fpls.2021.645218
- Easterling, K. A., Pitra, N. J., Jones, R. J., Lopes, L. G., Aquino, J. R., Zhang, D., Matthews, P. D., & Bass, H. W. (2020). Identification Of Tandem Repeat Families From Long-read Sequences Of *Humulus Lupulus*. *PLOS ONE*, 9. doi:10.1371/journal.pone.0233971
- Parvathaneni, R. K., Bertolini, E., Shamimuzzaman, M., Vera, D. L., Lung, Pie-Yau, Rice, B. R., Jinfeng Zhang, Brown, P. J., Lipka, A. E., Bass, H. W., & Eveland, A. L. (2020). The regulatory landscape of early maize inflorescence development. *Genome Biology*, *21*, 33. doi:10.1186/s13059-020-02070-8
- Wheeler, E. A., Brooks, A., Concia, L., Vera, D. L., Wear, E., LeBlanc, C., Umamaheswari, R., Vaughn, M., Bass, H. W., Martienssen, R., Thompson, W. F., & Hanley-Bowdoin, L. (2020). Arabidopsis DNA replication initiates in intergenic, AT-rich open chromatin. *Plant Physiology*, *183*, 206-220. doi:10.1104/pp.19.01520
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- Gumber, H. K., McKenna, J. F., Estrada, A. L., Frances, T. A., Graumann, K., & Bass, H. W. (2019). Identification and characterization of genes encoding the nuclear envelope LINC complex in the monocot species Zea mays. *Journal Cell Science*, *132*(3), 16. doi:10.1242/jcs.221390
- Gumber, H. K., McKenna, J. F., Tolmie, A. F., Jalovec, A. M., Kartick, A. C., Graumann, K., & Bass, H. W. (2019). MLKS2 is an ARM domain and F-actin-associated KASH protein that functions in stomatal complex development and meiotic chromosome segregation. *Nucleus*, *110*(1), 144-166. doi:10.1080/19491034.2019.1629795
- Easterling, K. A., Pitra, N. J., Jones, R. J., Lopes, L. G., Aquino, J. R., Zhang, D., Matthews, P. D., & Bass, H. W. (2018). 3D Molecular Cytology of Hop (Humulus lupulus) Meiotic Chromosomes Reveals Non-disomic Pairing and Segregation, Aneuploidy, and Genomic Structural Variation. *Frontiers in Plant Science*, *9*, 1501 (13pp.). Retrieved from https://www.frontiersin.org/articles/10.3389/fpls.2018.01501/full
- Turpin, Z. M., Vera, D. L., Savadel, S. D., Lung, Pei-Yau, Wear, E. E., Mickelson-Young, L., Thompson, W. F., Hanley-Bowdoin, L., Dennis, J. H., Zhang, J., & Bass, H. W. (2018). Chromatin Structure Profile Data from DNS-seq: Differential Nuclease Sensitivity Mapping of Four Reference Tissues of B73 Maize (Zea mays L). *Data in Brief*, 20, 358-363. doi:10.1016/j.dib.2018.08.01

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- Springer, N. M., Anderson, S. N., Andorf, C. M., Ahern, K. R., Bai, F., Barad, O., Barbazuk, W. B., Bass, H. W., Baruch, K., Ben-Zvi, G., Buckler, E. S., Bukowski, R., Campbell, M. S., Cannon, E. K. S., Chomet, P., Dawe, R. K., Easterling, K. A., Vera, D. L., Others, M., & Brutnell, T. P. (2018). The maize W22 genome provides a foundation for functional genomics and transposon biology. *Nature Genetics*, *50*, 1282–1288. Retrieved from https://doi.org/10.1038/s41588-018-0158-0 doi:10.1038/s41588-018-0158-
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Edited Books

- Bass, H. W., & Onokpise, K. (Eds.). (2018). *Crazy Lazy Corn!!!*. SokheChapke Publishing. Retrieved from https://www.bio.fsu.edu/bass/maizenucleosome/outreach/
- Bass, H. W., & Birchler, J. A. (Eds.). (2012). *Plant Cytogenetics*. New York: Springer. Retrieved from http://www.springer.com/978-0-387-70869-0

Invited Book Chapters

- Bass, H. W. (2014). Chromosomes (Chapter 9, Lewin's GENES XI). In Krebs, J. E., Goldstein, E. S., & Kilpatrick, S. T. (Eds.), *Lewin's GENES XI*. Sudbury, MA: Jones and Bartlett.
- Howe, E. S., Murphy, S. P., & Bass, H. W. (2013). 3D acrylamide FISH for plant cells. In W. P. Pawlowski, M. Grelon, & S. Armstrong (Eds.), *Methods in Molecular Biology: Plant Meiosis* (pp. Volume 990, pp 53-66). New York: Springer.
- Figueroa, D. M., Amarillo, F. E., & Bass, H. W. (2012). Cytogenetic mapping in plants. In H. W. Bass, & J. A. Birchler (Eds.), *Plant Cytogenetics. Genome Structure and Chromosome Function* (pp. Vol 4(1), pp 79-119). New York: Springer.
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Invited Reviews

- Griffin, B. D., & Bass, H. W. (2018). Plant G-quadruplex (G4) motifs in DNA and RNA; abundant, intriguing sequences of unknown function. *Plant Science*, *269*, 143-147. Retrieved from https://doi.org/10.1016/j.plantsci.2018.01.011
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Refereed Reviews

- Dumur, T., Duncan, S., Graumann, K., Desset, S., Randall, R. S., Mittelsten Scheid, O., Bass, H. W., Pradanov, D., Tatout, C., & Baroux, C. (2019). Probing the 3D architecture of the plant nucleus with microscopy approaches: challenges and solutions. *Nucleus*, *10*(1), 182-212. Retrieved from http://dx.doi.org/10.1080/19491034.2019.1644592 doi:10.1080/19491034.2019.1644592
- Bass, H. W., Wear, E. E., Lee, Tae-Jin, Hoffman, G. G., Gumber, H. K., Allen, G. C., Thompson, W. F., & Hanley-Bowdoin, L. (2014). A maize root tip system to study DNA replication programs in somatic and endocycling nuclei during plant development. *Journal of Experimental Botany*, 65(10), 2747-2756. Retrieved from http://jxb.oxfordjournals.org/content/65/10/2747
- Graumann, K., Bass, H. W., & Parry, G. (2013). SUNrises on the International Plant Nucleus Consortium: SEB Salzburg 2012. *Nucleus*, *4*(1), 3-7. Retrieved from http://www.landesbioscience.com/journals/nucleus/article/23385/

Refereed Reports

Puig-Lluch, M., & ConsortiumOf27. (in press). *Engaging Stakeholders in Conference Design to Promote the Plant Sciences*. eLife.

Nonrefereed Journal Articles

(Bass, Hank W.). (2015). Editor's Choice: G-quadruplex (G4 DNA) motifs occupy maize energy crisis genes. *National Science Review (of the Chinese Academy of Sciences)*, 2(3):, 253-254. doi:doi:10.1093/nsr/nwv045

Bass, H. W. (2003). Multi-author review (MAR) introduction: The conservation and divergence of telomeric structures, effects, and functions. *Cellular and Molecular Life Science*, 60, 2281-2282.

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- Bass, H. W. (2001). Chromosomes. In Robinson, R. (Ed.), *Plant Sciences for Students*. USA: MacMillan References.
- Dernburg, A. F., Sedat, J. W., Cande, W. Z., & Bass, H. W. (1995). Cytology of telomeres. In Blackburn, E. H., & Greider, C. W. (Eds.), *Telomeres* (pp. 295–338). Plainview, NY: Cold Spring Harbor Laboratory Press.

Nonrefereed Newsletter Articles

- Moore, J. M., & Bass, H. W. (2011). A recombinant C-terminal fragment of maize Initiator Binding Protein 2 (IBP2) binds to telomere-repeat DNA *in vitro*. *Maize Genetics Newsletter*, 84, 39-40.
- Forde, A. J., Applewhite, H. S., & Bass, H. W. (2009). A laboratory and field survey of leaf feeding resistance in diverse maize inbred lines. *Maize Genetics Newsletter*, 83, 48–49.
- Bassie, Y. R., Onokpise, O. U., Odland, W. E., & Bass, H. W. (2004). FISH analysis of retroelement distribution patterns along mitotic chromosomes. *Maize Genetics Newsletter*, 78, 59.
- Figueroa, D. M., & Bass, H. W. (2004). The Single myb histone (Smh) gene family of maize; detection of two PCR products from maize with primers for Smh1. *Maize Genetics Newsletter*, 78, 58–59.
- Koumbaris, G., & Bass, H. W. (2002). Pachytene arm ratios for maize chromosome 9 in OMAd9.2, a maize chromosome addition line of oat. *Maize Genetics Newsletter*, 76, 62–63.
- Bass, H. W., & Bordoli, H. W. (2001). Variable distribution of meiotic homologs; on-line spinning projections of 3D data from chromosome painting and telomere FISH analysis of OMAd9.2. *Maize Genetics Newsletter*, 75, 63.
- Bass, H. W. (1990). A simple, efficient method for plaque purifying lambda phage clones by filter hybridizations. *The Plant Molecular Biology Promoter (N.C.)*, 1, 24–25.
- Shank, B. B., Bass, H. W., Sisco, P. H., Wurtzel, E., & Boston, R. S. (1990). Isolation and

- mapping of a cDNA probe for the b-70 protein. Maize Genetics Newsletter, 64, 97.
- Bass, H. W., Sisco, P. H., Murray, D. L., & Boston, R. S. (1990). Probes for the b-32 protein hybridize to loci on 7L and 8L. *Maize Genetics Newsletter*, 64, 97.

Presentations

Invited Keynote and Plenary Presentations at Conferences

- Bass, H. W., Gumber, H. K., McKenna, J., Estrada, A. L., Jalovec, A. M., Tolmie, A. F., Buerk, C. A., & Graumann, K. (presented 2018, July). (*Invited TALK*) *Identification and characterization of maize LINC complex proteins*. Keynote presentation at Society for Experimental Biology (SEB 2018), Nuclear Dynamics SEB special interest group, within the SEB, Florence, Italy. (International)
- Bass, H. (presented 2016, July). *Exploring Maize Nuclear Structure-Function Relationships Operative at Multiple Scales*. Keynote presentation at Society for Experimental Biology Brighton 2016, Society for Experimental Biology, Brighton, UK. (International)

Invited Presentations at Conferences

- Lubkowitz, M., & Bass, H. W. (accepted). *A Cure for Your Course and Curriculum*. Presentation to be given at Plant and Animal Genome Conference, PAG 32, Plant and Animal Genome Conference, San Diego, CA. (International)
- Bass, H. W. (presented 2024, May). From Meiotic Bouquets to LINC Bridges: A Century of Plant Nuclear Envelope Research. Presentation at UF Plant Cell and Molecular Biology Retreat 2024, University of Florida, PMCB Graduate Program, Daytona, FL. (State)
- Bass, H. W. (presented 2022, September). *Meiosis in plants molecular features investigated by chromosome observation*. Presentation at 67th Brazilian Congress of Genetics, Gen'etica 2022, Sociedade Brasileira de Genética, Natal, Brazil. (International)
- Bass, H. W. (presented 2022, July). MNase-based MOA-Seq Pinpoints Native Cistrome
 Occupancy at 30-bp Resolution Amid Accessible Chromatin. Presentation at SEB Annual
 Conference 2022, Society for Experimental Biology, Montpellier, France. (International)
- Bass, H. W. (presented 2021, July). *3D cytology and genetics of maize meiosis*. Presentation at SEB's 2021 Annual Conference, Society for Experimental Biology, Online (out of UK). (International) Retrieved from https://www.sebiology.org/events/event/seb-conference-2021/programme/cell-biology-sessions
- Bass, H. W., Vera, D. L., Rodgers-Menick, E., & Buckler, E. S. (presented 2016, January).

- Investigating Chromatin Structure at Multiple Scales in Maize. Presentation at International Plant & Animal Genome XXIV, Plant & Animal Genome, San Diego, CA, USA. (International) Retrieved from https://pag.confex.com/pag/xxiv/meetingapp.cgi/Paper/22138
- Rodgers-Menick, E., Vera, D. L., Bass, H. W., Bradbury, P., & Buckler, E. S. (presented 2016, January). *The Stability and Consequences of Recombination in Maize*. Presentation at International Plant & Animal Genome XXIV, Plant & Animal Genome, San Diego, CA, USA. (International) Retrieved from https://pag.confex.com/pag/xxiv/meetingapp.cgi/Paper/18726
- Hanley-Bowdoin, L., Lee, T-J, Hoffman, G. G., Allen, G. C., Thompson, W. F., & Bass, H. W. (presented 2015, January). *A Spatiotemporal Analysis of Plant DNA Replication in Developing Root Tips*. Presentation at Plant and Animal Genome XXIII Conference, PAG, San Diego, CA. (International)
- Bass, H. W., Vera, D. L., Madzima, T. F., Labonne, J. D., Alam, M. P., Hoffman, G. G., Girimuragan, S. B., Zhang, J., Dennis, J. H., & McGinnis, K. M. (presented 2014, January). *MNase Profiling of the Chromatin Landscapes in the Maize Genome*. Presentation at Plant and Animal Genome XXII Conference, Plant and Animal Genome, San Diego, CA, USA. (International)
- Murphy, S. P., Mao, Y., Gumber, H. K., & Bass, H. W. (presented 2014, January). *The Meiotic SUN Belt of Maize is Disrupted by Mutants Defective in Chromosome Segregation*. Presentation at Plant and Animal Genome XXII Conference, Plant and Animal Genome, San Diego, CA, USA. (International)
- Bass, H. W., Vera, D. L., Madzima, T. M., Labonne, J. D., Alam, P., Hoffman, G. G., Dennis, J. H., & McGinnis, K. M. (presented 2013, April). MNAse profiling of chromatin landscapes in maize. Presentation at Society for Experimental Biology Meeting, SEB Valencia, 2013, Society for Experimental Biology, Valencia, SPAIN. (International)
- Hanley-Bowdoin, L., Hoffman, G. G., Lee, T-J, Wear, E. E., Pascuzzi, P. E., Allen, G. C., Thompson, W. F., & Bass, H. W. (presented 2013, April). *Temporal and Spatial Patterns of DNA Replication*. Presentation at Society for Experimental Biology Meeting, SEB Valencia, 2013, Society for Experimental Biology, Valencia, SPAIN. (International)
- Bass, H. W., & Murphy, S. P. (presented 2012, June). *Analysis of SUN domain proteins during meiosis in maize (Zea mays)*. Presentation at Society for Experimental Biology Meeting, SEB Salzburg, 2012, Society for Experimental Biology, Salzburg, AUSTRIA. (International)
- Murphy, S. P., Simmons, C. R., & Bass, H. W. (presented 2011, January). *Molecular Analysis of SUN (Sad1p/Unc-84) Domain Genes of Maize, Including a Candidate Gene for the desynaptic (dy) Mutation*. Presentation at Plant and Animal Genome XIX Conference,

- Plant and Animal Genome Conference, San Diego, CA, USA. (International)
- Bass, H. W. (presented 2007, June). *Plant genetics*. Presentation at Cold Spring Harbor Lab / NSF workshop on plant genetics, Florida A&M University, Tallahassee, FL. (National)
- Bass, H. W. (presented 2004, August). *Participant presentation*. Presentation at PlantGDB/MaizeGDB annotation tool and curation workshop, Iowa State University, Ames, IA. (National)
- Bass, H. W. (presented 2003, March). *Meiotic chromosomes in 3D: structure and function*. Presentation at 100th Annual Meeting, Southern Association of Agricultural Scientists, Biochemistry and Biotechnology Division, Mobile, AL. (Regional)
- Bass, H. W. (presented 2003, January). *Telomere behavior at meiotic prophase in higher plants*. Presentation at Plant & Animal Genome XI Conference, Plant & Animal Genome XI Conference organizing committee, San Diego, CA. (International)
- Bass, H. W. (presented 2002, April). *Analysis of meiotic telomere functions in maize*. Presentation at Annual meeting, Society for Experimental Biology, Swansea, Wales. (International)

Invited Presentations at Symposia

Bass, H. W. (presented 2001, January). 3D cytogenetics of telomere behavior and chromosome pairing during meiosis. In Dr. B. Gill & Dr. J. Jiang (Chair), *Symposium on Plant Cytogenetics in the New Millennium*. Presentation at the meeting of American Society of Agronomy, Crop Science Society of America, and the Soil Science Society of America, Minneapolis, MN. (National)

Refereed Presentations at Conferences

- Zhang, L., Bass, H. W., Irianto, J., & Mallory, X. F. (submitted). *SCsnvcna: Revolutionizing Cancer Phylogenetics with Independent SNV and CNA Integration (for RECOMB 2024)*. Poster presentation submitted for approval.
- Zhang, L., Bass, H. W., Irianto, J., & Mallory, X. F. (presented 2022, May). SCsnvcna: Integrating SNVs and CNAs on a phylogenetic tree from single-cell DNA sequencing data. (Paper for RECOMB-CG 2022). Presentation at RECOMB-CG 2022; The 19th Annual Satellite Conference of RECOMB in Comparative Genomics, RECOMB-CG 2022, San Diego, CA. (International) Retrieved from https://recombcg2022.usask.ca/
- Roberts, J. T., Mallory, X. F., Bass, H. W., Daly, G. T., Houserova, D., Langley, R. J., Borchert, G. M., Pastukh, V. M., & Gillespie, M. N. (presented 2022). *Alternate Splicing in the*

- *Transcriptional Response to Hypoxia*. Poster presentation at American Thoracic Society International Conference 2022, American Thoracic Society. (International)
- Bass, H. W., Vera, D. L., Wiggins, Z., Zhang, J., McGinnis, K. M., Dennis, J. H., Onokpise, O. U., Rodgers-Melnick, E. B., & Buckler, E. S. (presented 2015, March). *Linking Chromatin Structure to Genomic Function through Differential Nuclease Sensitivity (DNS-seq) and Nucleosome Occupancy Mapping*. Presentation at 57th Annual Maize Genetics Conference, Maize Genetics, St. Charles, IL. (International)
- Vera, D. L., Bass, H. W., & Dennis, J. H. (presented 2014, September). *Targeted-enrichment of MNase-seq libraries reveals hypersensitive and hyper-resistant nucleosomes at important regulatory regions in the human genome*. Poster presentation at Cold Spring Harbor Laboratory Meetings: Epigenetics and Chromatin, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY. (International)
- Madzima, T. F., Fincher, J. A., Vera, D. L., Dorweiler, J., Bass, H. W., Dennis, J. H., & McGinnis, K. M. (presented 2012, March). *Genome-wide effect of the mop1-1 mutation on chromatin structure in maize*. Presentation at 54th Annual Maize Genetics Conference; Portland, OR, 54th Annual Maize Genetics Conference; Portland, OR, Portland, OR, USA. (International)
- Vera, D. L., Bass, H. W., & Dennis, J. H. (presented 2012, January). *Chromatin accessibility is largely unaltered by the transition to mitotic chromosomes*. Poster presentation at Keystone Symposia: Epigenomics, Keystone Symposia, Keystone, CO, USA. (International)
- Murphy, S. P., Simmons, C., & Bass, H. W. (presented 2011, March). *SUN (Sad1p/Unc-84) domain genes of maize: evidence for a small gene family of two ancient isoforms*. Presentation at Maize Genetics, Maize Genetics, St. Charles, IL. (International)

Nonrefereed Presentations at Conferences

- Wheeler, E. A., Mickleson-Young, L., Wear, E. E., Burroughs, M., Concia, L., Bass, H. W., Thompson, W. F., & Hanley Bowdoin, L. (presented 2025, March). *Poster 21: A modified replication timing profiling method improves early replication detection and facilitates comparison of multiple genotypes*. Poster presentation at 66th Annual Maize Genetics Conference, The Maize Genetics Cooperation, St. Louis, MO. (International)
- Bass, H. W., Wheeler, E. A., Akram, H. S., Wear, E. E., Mickleson-Young, L., Lezama, C. M., Concia, L., Thompson, W. F., & Hanley Bowdoin, L. (presented 2025, March). *Poster 87: Cytological, genomic, and comparative analysis of DNA replication in maize and sorghum.* Poster presentation at 66th Annual Maize Genetics Conference, The Maize Genetics Cooperation, St. Louis, MO. (International)

- Akram, H. S., Wear, E. E., Mickleson-Young, L., Turpin, Z. M., Thompson, W. F., Hanley Bowdoin, L., Concia, L., & Bass, H. W. (presented 2025, March). *TALK T23:Replication timing uncovers a novel two-compartment arrangement of maize interphase euchromatin*. Poster presentation at 66th Annual Maize Genetics Conference, The Maize Genetics Cooperation, St. Louis, MO. (International)
- Wear, E. E., Mickelson, L., Akram, H. S., Lezama, C. L., Burroughs, M., Schober-Colburn, C., Wheeler, E. A., Bass, H. W., Hanley-Bowdoin, L., & Thompson, W. F. (presented 2024).

 Poster 118: Tracking S-phase progression: Sequential dual labeling of replicated DNA
 with EdU and BrdU in maize root tips. Poster presentation at 66th Annual Maize Genetics
 Conference, The Maize Genetics Cooperation, Raleigh, NC. (International)
- Bass, H. W., Turpin, Z. M., Glover, Z. S., Singh, A., Salihovic, H. F., Wear, E. E., Mickleson-Young, L., Thompson, W. F., & Hanley Bowdoin, L. (presented 2024). *Poster 145:*Chromatin structure and particle mapping in maize root tip nuclei using MNase digestion assays. Poster presentation at 66th Annual Maize Genetics Conference, The Maize Genetics Cooperation, Raleigh, NC. (International)
- Akram, H. S., Concia, L., Wear, E. E., Mickleson-Young, L., Thompson, W. F., Hanley Bowdoin, L., & Bass, H. W. (presented 2024). *Poster 176: Elucidating the relationship between DNA replication timing within S-phase and the spatial organization of chromatin within maize nuclei*. Poster presentation at 66th Annual Maize Genetics Conference, The Maize Genetics Cooperation, Raleigh, NC. (International)
- Sheridan, B. K. M., Flores, T. V., Hambuechen, C. A., Davis, K., Doster, J., Wear, E. E., Mickleson-Young, L., Concia, L., Thompson, W. F., Hanley Bowdoin, L., & Bass, H. W. (presented 2024). *Poster 189: The Maize-10-Maze project, an educational public chromosome map garden with mutants of maize at FSU and online*. Poster presentation at 66th Annual Maize Genetics Conference, The Maize Genetics Cooperation, Raleigh, NC. (International)
- Engelhorn, J., (5 other authors), Singh, A., (9 other authors), Bass, H. W., (4 other authors), & Hartwig, T. (presented 2024). *Poster 254: Phenotypic heritability in maize can be largely explained by genetic variation at transcription factor binding sites*. Poster presentation at 66th Annual Maize Genetics Conference, The Maize Genetics Cooperation, Raleigh, NC. (International)
- Engelhorn, J., (5 other authors), Singh, A., (9 other authors), Bass, H. W., (4 other authors), & Hartwig, T. (presented 2024). *Poster 287: Exploring tissue-specific variation in knob chromatin accessibility*. Poster presentation at 66th Annual Maize Genetics Conference, The Maize Genetics Cooperation, Raleigh, NC. (International)
- Turpin, Z. M., & Bass, H. W. (presented 2024). *Poster 36: MOA-seq identifies candidate ciselements associated with response to submergence*. Poster presentation at 66th Annual Maize Genetics Conference, The Maize Genetics Cooperation, Raleigh, NC.

(International)

- Chin-Quee, A., Akram, H. S., Wu, S., Suzuki, M., Bass, H. W., & McCarty, D. R. (presented 2024). *Poster 66: Cause and consequences of abnormal Meiosis II division in bige7 heterozygotes*. Poster presentation at 66th Annual Maize Genetics Conference, The Maize Genetics Cooperation, Raleigh, NC. (International)
- McGinnis, K. M., Sheridan, B. K. M., Koirtyohann, K., Gadalean, N., Won, J., Edwards, J., Bass, H. W., Hanley-Bowdoin, L. K., & Bass, H. W. (presented 2023, August). *Poster: The Maize-10-Maze Summer Outreach Event at Florida State University*. Poster presentation at Plant Biology 2023, American Society for Plant Biology, Savannah, GA. (International)
- Akram, S., Wear, E., Mickelson, L., Thompson, W. F., Hanley-Bowdoin, L. K., & Bass, H. W. (presented 2023, March). *Poster 109: Cytological evidence supports the two-compartment model of maize euchromatin distinguished by replication timing*. Poster presentation at 65th Annual Maize Genetics Conference, The Maize Genetics Cooperation, St. Louis, MO. (International)
- Sattler, M. C., Bass, H. W., & Mondin, M. (presented 2023, March). *Poster 111:*Heterochromatic knobs exhibit differences in chromatin accessibility during maize development. Poster presentation at 65th Annual Maize Genetics Conference, The Maize Genetics Cooperation, St. Louis, MO. (International)
- Makarevitch, I., Bass, H. W., & CODIE committee. (presented 2023, March). *Poster 121: The Maize Building Better Together Workshop: Strategies for a healthy and inclusive research community*. Poster presentation at 65th Annual Maize Genetics Conference, The Maize Genetics Cooperation, St. Louis, MO. (International)
- Sheridan, B. K. M., Beechy, Y. F., Flores, T. V., Hambuechen, C. A., Jadoo, D., Davis, K., Doster, J., Hanley-Bowdoin, L. K., & Bass, H. W. (presented 2023, March). *Poster 122: The Maize-10-Maze Project, an Educational Public Chromosome Map Garden Featuring the Mutants of Maize*. Poster presentation at 65th Annual Maize Genetics Conference, The Maize Genetics Cooperation, St. Louis, MO. (International)
- Glover, Z. S., Singh, A., Hanley-Bowdoin, L. K., Bass, H. W., & Bass, H. W. (presented 2023, March). *Poster 94: MNase sequence bias fails to predict MOA-seq chromatin profiling peaks*. Poster presentation at 65th Annual Maize Genetics Conference, The Maize Genetics Cooperation, St. Louis, MO. (International)
- Makarevitch, I., Bass, H. W., & CODIE committee. (presented 2022, March). *Poster 2: The MGC Committee on Outreach, Diversity, Inclusion, and Education (CODIE) 2021-22 Update*. Poster presentation at 64th Annual Maize Genetics Meeting, Maize Genetics Coopertation, St. Louis, MO, USA. (International)

- Bass, H. W., Sheridan, B., Beechy, Y., Davis, K., Doster, J., & Hanley-Bowdoin, L. (presented 2022, March). *Poster 6: The Maize-10-Maze Project, an Educational Public Chromosome Map Garden Featuring the Mutants of Maize*. Poster presentation at 64th Annual Maize Genetics Meeting, Maize Genetics Coopertation, St. Louis, MO, USA. (International)
- Salihovic, H. F., Turpin, Z. M., & Bass, H. W. (presented 2021, March). *Poster P13: Identification of transposable element families that exhibit tissue-specific variation in chromatin structure as revealed by global MNase sensitivity profiling.* Poster presentation at 63rd Annual Maize Genetics Conference, Maize Genetics, St. Louis, MO, USA. (International)
- Wear, E. E., Mickelson-Yound, L., Turpin, Z. M., Cantu, A., Akram, H. S., Salihovic, H. F., Singh, S., Song, J., Bass, H. W., Thompson, W. F., & Hanley-Bowdoin, L. (presented 2021, March). *Poster P175: Comparative analysis of DNA replication in maize and sorghum*. Poster presentation at 63rd Annual Maize Genetics Conference, Maize Genetics, St. Louis, MO, USA. (International)
- Bass, H. W., Turpin, Z. M., & Salihovic, H. F. (presented 2021, March). *Poster P24: Project update: Nuclease profiling in maize MNase sensitivity and frenter profiles for B73v5*. Poster presentation at 63rd Annual Maize Genetics Conference, Maize Genetics, St. Louis, MO, USA. (International)
- Andorf, C., Bartlett, M., Bass, H., de Leon, N., Doyle, E., Durham Brooks, T., Fowler, J., Jackson, D., Lubkowitz, M., Makarevitch, I., Morais de Sousa, Sylvia, Portwood, J., Praud, S., Woodhouse, M., Yandeau-Nelson, M., & Warburton, M. (presented 2021, March). *Poster P37: Maize genetics Committee on Outreach, Diversity, Inclusion, and Education (CODIE) 2020-2021 update*. Poster presentation at 63rd Annual Maize Genetics Conference, Maize Genetics, St. Louis, MO, USA. (International)
- Engelhorn, J., Blank, M., Seetharam, A., Snodgrass, S. J., Kiwit, T., Weizel, S., Bass, H. W., Ross-Ibarra, J., Hufford, M. B., Frommer, W. B., & Hartwig, T. (presented 2021, March). *Talk T10: FIND-CIS: High-resolution mapping of functional cis-elements in the maize drought response*. Presentation at 63rd Annual Maize Genetics Conference, Maize Genetics, St. Louis, MO, USA. (International)
- Turpin, Z. M., Savadel, S. D., Vera, D. L., Salihovic, H. F., Lung, Pei-Yau, Sui, X., Williams, D. S., Boothe, S. A., Onokpise, K., Zhang, J., Hartwig, T., & Bass, H. W. (presented 2020, March). *Poster 230:The NUPRIME project: Innovations in identifying candidate cis-regulatory elements from small particle MNase footprints*. Poster presentation at 62nd Annual Maize Genetics Conference, Maize Genetics, Kailua-Kona, Hawaii, USA. (International)
- Gumber, H. K., McKenna, Joseph, F, Tolmie, A. F., Estrada, A. L., Jalovec, A. M., Kartick, A. C., Graumann, K., & Bass, H. W. (presented 2019, March). (TALK) The Maize LINC KASH

- AtSINE-like2 (MLKS2) gene encodes an ARM domain KASH protein that tethers the nucleus to actin and is required for normal development and meiotic chromosome segregation. Presentation at 61st Annual Maize Genetics Conference, Maize Genetics, St. Louis, MO, USA. (International)
- Turpin, Z. M., Vera, D. L., Savadel, S. D., Lung, Pei-Yau, Liu, Y., Girimurugan, S. B., Dennis, J. H., Zhang, J., & Bass, H. W. (presented 2019, March). *DNS-seq maps of nucleosome occupancy and open chromatin in B73 root tip, coleoptilar nodes, earshoot, and 15-DAP endosperm*. Poster presentation at 61st Annual Maize Genetics Conference, Maize Genetics, St. Louis, MO, USA. (International)
- Hartwig, & Bass, H. W. (presented 2019, March). *HartwigTALK update*. Presentation at 62nd Annual Maize Genetics Conference, Maize Genetics, St. Louis, MO, USA. (International)
- Bass, H. W., Savadel, S. D., Turpin, Z. M., Vera, D. L., Lung, Pei-Yau, Sui, X., Salihovic, H. F., Hartwig, T., & Zhang, J. (presented 2019, March). *Mapping the Maize Cistrome using MOA-seq (MNase Open & Accessible): Motif Discovery and Annotation*. Poster presentation at 61st Annual Maize Genetics Conference, Maize Genetics, St. Louis, MO, USA. (International)
- Bertolini, E., Parvathaneni, R., Shamimuzzaman, M., Lipka, A., Vera, D. L., & Bass, H. W. (presented 2018, March). (TALK) The regulatory landscape of developing maize inflorescences: linking phenotypic variation to the functional non-coding genome. Presentation at 60th Annual Maize Genetics Conference, Maize Genetics, Saint-Malo, France. (International)
- Gumber, H. K., McKenna, J., Estrada, A. L., Jalovec, A. M., Tolmie, A. F., Graumann, K., & Bass, H. W. (presented 2018, March). *Identification and characterization of LINC complex proteins in Zea mays L.* Presentation at 60th Annual Maize Genetics Conference, Maize Genetics, Saint-Malo, France. (International)
- Savadel, S. D., Vera, D. L., Lung, Pei-Yau, Zhang, J., & Bass, H. W. (presented 2018, March). MOA (MNase Open Access) Mapping: A New and Efficient Method for Genome-Wide Open Chromatin Profiling in Maize, Demonstrated with Developing Earshoots. Poster presentation at 60th Annual Maize Genetics Conference, Maize Genetics, Saint-Malo, France. (International)
- Bass, H. W., Vera, D. L., Lung, Pei-Yau, Liu, Y., Girimurugan, S., Turpin, Z. M., Savadel, S. D.,
 Kyle, K. E., Dennis, J. H., & Zhang, J. (presented 2018, March). *The NUPRIME Project:* Nuclease Profiling of Four Reference Tissues as a Resource for Maize Epigenomics.
 Poster presentation at 60th Annual Maize Genetics Conference, Maize Genetics, Saint-Malo, France. (International)
- Turpin, Z. M., Vera, D. L., & Bass, H. W. (presented 2017, March). Chromatin structure profile

- (MNase DNS-seq) for 15-DAP endosperm, a B73 core reference tissue. Poster presentation at 59th Annual Maize Genetics Conference, Maize Genetics, St. Louis, MO, USA. (International)
- Parvathaneni, R. K., Shamimuzzaman, M., Kovar L. L., Vera, D. L., Bass, H. W., & Eveland, A. E. (presented 2017, March). *Defining gene regulatory networks controlling early inflorescence development in maize*. Poster presentation at 59th Annual Maize Genetics Conference, Maize Genetics, St. Louis, MO, USA. (International)
- Mingze, H., Andorf, C. M., Walley, J. W., Walia, H., Koch, K. E., Liu, P., Bass, H. W., & Lawrence-Dill, C. J. (presented 2017, March). *G4 quadruplexes in and near regulatory elements of maize genes involved in tissue development and altered transcriptional response to abiotic stresses*. Poster presentation at 59th Annual Maize Genetics Conference, Maize Genetics, St. Louis, MO, USA. (International)
- Vera, D. L., Kyle, K. E., & Bass, H. W. (presented 2017, March). *Genomaize, a UCSC genome browser for maize genomes*. Poster presentation at 59th Annual Maize Genetics Conference, Maize Genetics, St. Louis, MO, USA. (International)
- Griffin, B. D., Winn, M. N., & Bass, H. W. (presented 2017, March). *Producing reporter gene constructs for investigating the role of G-Quadruplex (G4) DNA elements in gene regulation*. Poster presentation at 59th Annual Maize Genetics Conference, Maize Genetics, St. Louis, MO, USA. (International)
- Savadel, S. D., & Bass, H. W. (presented 2017, March). *Taking a look at plant DNA replication: recent insights, new questions, and data sharing through OMERO.bio.fsu.edu.* Poster presentation at 59th Annual Maize Genetics Conference, Maize Genetics, St. Louis, MO, USA. (International)
- Bass, H. W., Vera, D. L., Wiggins, Z. D., Yu, K., Dennis, J. H., Zhang, J., & Onokpise, O. U. (presented 2016, January). *DNS NUPRIME: Differential Nuclease Sensitivity for Nuclease Profiling as an Integrative Resource for Maize Epigenomics*. Poster presentation at 58th Annual Maize Genetics Conference, Maize Genetics, Jacksonville, FL, USA. (International)
- Farran, A. E., Turpin, Z. M., & Bass, H. W. (presented 2016, January). *Does hypoxia signal transduction involve targeted ROS-mediated oxidative base modification (8-oxoG) at G4 DNA elements in maize?* Poster presentation at 58th Annual Maize Genetics Conference, Maize Genetics, Jacksonville, FL, USA. (International)
- Estrada, A. L., Bass, I. C., Onokpise, O. U., & Bass, H. W. (presented 2016, January). *Genome strolling through the Maize-10-Maze; a living museum outreach project exhibiting select mutants of maize*. Poster presentation at 58th Annual Maize Genetics Conference, Maize Genetics, Jacksonville, FL, USA. (International)

- Gumber, H. K., Estrada, A. L., & Bass, H. W. (presented 2016, January). *Identification of KASH and other SUN-interacting proteins in maize*. Poster presentation at 58th Annual Maize Genetics Conference, Maize Genetics, Jacksonville, FL, USA. (International)
- Savadel, S. D., & Bass, H. W. (presented 2016, January). *Immunostaining of ZmNDPK1, a G4-DNA-binding protein, reveals various nuclear and cytoplasmic localization patterns in maize tissues before and after experimental flooding to induce hypoxia*. Poster presentation at 58th Annual Maize Genetics Conference, Maize Genetics, Jacksonville, FL, USA. (International)
- He, M., Dobbs, D., Walley, J. W., Koch, K. E., Liu, P., Bass, H. W., & Lawrence, C. J. (presented 2016, January). *Investigating Diversity and Possible Functions of G-Quadruplexes in Regulatory Regions of Maize*. Poster presentation at International Plant & Animal Genome XXIV, Plant & Animal Genome, San Diego, CA, USA. (International) Retrieved from https://pag.confex.com/pag/xxiv/meetingapp.cgi/Paper/21207
- Griffin, B. D., & Bass, H. W. (presented 2016, January). *Producing Reporter Gene Constructs for Investigating the Role of G-Quadruplex (G4) DNA elements in Gene Regulation*. Poster presentation at 58th Annual Maize Genetics Conference, Maize Genetics, Jacksonville, FL, USA. (International)
- Hoffman, G. G., Lee, Tae-Jin, Wear, E. E., Joseph, S. R., Allen, G. C., Thompson, W. F., Hanley-Bowdoin, L., & Bass, H. (presented 2016, January). *The spatiotemporal patterns of DNA replication and endoreduplication as defined by 3D microscopy of nuclei from developing maize root tip nuclei*. Poster presentation at 58th Annual Maize Genetics Conference, Maize Genetics, Jacksonville, FL, USA. (International)
- Easterling, K. A., Bass, H. W., Vera, D. L., & Brutnell, Tom (W22 Consortium). (presented 2016, January). *W22 Chromosomes and Chromatin: A Pachytene FISH Karyotype and Genome-wide Differential Nuclease Sensitivity Profile*. Poster presentation at 58th Annual Maize Genetics Conference, Maize Genetics, Jacksonville, FL, USA. (International)
- He, M., Andorf, C. M., Dobbs, D., Koch, K. E., Bass, H. W., & Lawrence, C. J. (presented 2015, March). *Assessing the prevalence and diversity of G-quadruplexes in regulatory regions of maize genes*. Presentation at 57th Annual Maize Genetics Conference, Maize Genetics, St. Charles, IL. (International)
- Rodgers-Melnick, E., Bradbury, P. J., Vera, D. L., Bass, H. W., & Buckler, E. S. (presented 2015, March). *Open Chromatin Reveals the Functional Portion of the Maize Genome*. Presentation at 57th Annual Maize Genetics Conference, Maize Genetics, St. Charles, IL. (International)
- Easterling, K. A., Somasundaram, V., Harvey, R., Kearley, M. L., & Bass, H. W. (presented 2015, March). *Production and use of colchicine derivatives to study mechanisms of plant meiosis*. Presentation at 57th Annual Maize Genetics Conference, Maize Genetics, St.

- Gumber, H. K., Murphy, S. P., & Bass, H. W. (presented 2015, March). *Towards identifying SUN-interacting proteins in the maize nuclear envelope*. Presentation at 57th Annual Maize Genetics Conference, Maize Genetics, St. Charles, IL. (International)
- Gumber, H. K., Murphy, S. P., & Bass, H. (presented 2014, October). *LINC Complexes in the Maize Nuclear Envelope*. Presentation at Natural Sciences Graduate Symposium, Florida State University, Florida State University; Tallahassee, FL, USA. (Local)
- Easterling, K. A., Somasundaram, V., Harvey, R., Kearley, M. L., & Bass, H. W. (presented 2014, October). *Production and use of Colchicine Derivatives to Study Mechanisms of Plant Meiosis*. Presentation at Natural Sciences Graduate Symposium, Florida State University, Florida State University, Tallahassee, FL, USA. (Local)
- Gumber, H. K., Murphy, S. P., Mao, Y., & Bass, H. W. (presented 2014, May). *Analysis of SUN domain proteins in the maize nuclear envelope*. Presentation at 27th Annual Plant Molecular and Cellular Biology (PMCB) Workshop, Plant Molecular and Cellular Biology graduate program, UF, ; Daytona Beach Shores, FL. (State)
- Bass, H. W., Vera, D. L., Hughes, D. D., Fincher, J. A., Alam, M. P., Labonne, J. D., Madzima, T. F., Wiggins, O. U., Onokpise, O. U., Hoffman, G. G., McGinnis, K. M., & Dennis, J. H. (presented 2012, September). *Chromatin Structure and Genome Response in Maize*.
 Poster presentation at NSF Plant Genome Research Program Awardee Meeting, NSF PGRP, Arlington, VA, USA. (National)
- Vera, D. L., Hughes, D. D., Dennis, J. H., & Bass, H. W. (presented 2012, March). *Defining the chromatin domain organization of the maize genome*. Poster presentation at 54th Annual Maize Genetics Conference, Maize Genetics, Portland, OR, USA. (International)
- Labonne, J. D., Vera, D. L., Alam, P. M., Madzima, T. F., Hoffman, G. G., Dennis, J. H., McGinnis, K. M., & Bass, H. W. (presented 2012, March). *Development of a robust method for microscopic and molecular assays of nuclear architecture and chromatin structure in maize*. Poster presentation at 54th Annual Maize Genetics Conference, Maize Genetics, Portland, OR, USA. (International)
- Bass, H. W., Vera, D. L., Hughes, D. D., Fincher, J. A., Alam, P. M., Labonne, J. D., Madzima, T. F., Wiggins, Z., Onokpise, O. U., Moose, S. P., McGinnis, K. M., & Dennis, J. H. (presented 2012, March). *Tissue-specific nucleosome occupancy in the promoter/TSS region of 400 classical maize genes*. Poster presentation at 54th Annual Maize Genetics Conference, Maize Genetics, Portland, OR, USA. (International)
- Fincher, J. A., Vera, D. L., Dennis, J. H., & Bass, H. W. (presented 2012, March). *Using empirical maize chromatin data to train a support vector machine to predict nucleosome occupancy likelihood (NOL)*. Poster presentation at 54th Annual Maize Genetics

- Conference, Maize Genetics, Portland, OR, USA. (International)
- Brown, A. N., & Bass, H. W. (presented 2011, November). *QTL mapping and candidate gene analysis of telomere length control in maize (Zea mays L.)*. Poster presentation at Genetics Symposium, University of Florida, Genetics, University of Florida, University of Florida, Gainesville, FL, USA. (State)
- Bass, H. W., Dennis, J. H., McGinnis, K. M., Onokpise, O. U., Fincher, J. A., Vera, D. L., Labonne, J. D., Alam, M. P., Madzima, T. F., & Hoffman, G. G. (presented 2011, September). *Nucleosome Mapping and Chromatin Structure in Maize, a Novel Platform for Genome Response Assays*. Poster presentation at NSF Plant Genome Research Program Awardee Meeting, NSF PGRP, Arlington, VA, USA. (National)
- Fincher, J. A., Vera, D. L., Bass, H. W., & Dennis, J. H. (presented 2011, July). *Dynamic DNA Packaging Across Kingdoms*. Poster presentation at Chromatin and Beyond; Biophysical Society, Biophysical Society, Asilomar, CA, USA. (International)
- Vera, D. L., McGinnis, K. M., Dennis, J. H., & Bass, H. (presented 2011, March). Analysis of Chromatin Accessibility in the Maize Interphase Nucleus. Poster presentation at 53rd Annual Maize Genetics Conference, Maize Genetics, St. Charles, IL, USA. (International)
- Howe, E. S., Murphy, S. P., Clemente, T. E., & Bass, H. W. (presented 2011, March).

 *Microscopic Analysis of Transgenic Maize Lines Expressing a Fluorescent Histone,

 H2B::mCherry. Poster presentation at 53rd Annual Maize Genetics Conference, Maize

 Genetics, St. Charles, IL, USA. (International)
- Alam, P. M., Vera, D. L., Fincher, J. A., McGinnis, K. M., Bass, H., & Dennis, J. H. (presented 2011, March). *Nucleosome distribution and promoter architecture at 400 genes in the maize genome*. Poster presentation at 53rd Annual Maize Genetics Conference, Maize Genetics, St. Charles, IL, USA. (International)
- Fincher, J. A., Bremen, B. L., Sen, T. Z., Dennis, J. H., & Bass, H. (presented 2011, March). Using a Support Vector Machine to Predict Nucleosome Occupancy Likelihood (NOL) in the Maize Genome. Poster presentation at 53rd Annual Maize Genetics Conference, Maize Genetics, St. Charles, IL, USA. (International)
- Murphy, S. P., Simmons, C. R., & Bass, H. W. (presented 2011, January). *Molecular Analysis of SUN (Sad1p/Unc-84) Domain Genes of Maize, Including a Candidate Gene for the desynaptic (dy) Mutation*. Poster presentation at Plant and Animal Genome XIX Conference, Plant and Animal Genome Conference, San Diego, CA, USA. (International)
- Bass, H. W., Fincher, J. A., McGinnis, K. M., & Dennis, J. H. (presented 2011, January).

 Nucleosome Mapping And Chromatin Structure In Maize, A Novel Platform For Genome Response Assays. Poster presentation at Plant and Animal Genome XIX Conference,

- Plant and Animal Genome Conference, San Diego, CA, USA. (International)
- Bass, H. W., Dennis, J. H., McGinnis, K. M., Onokpise, O. U., & Fincher, J. A. (presented 2010, September). *Nucleosome mapping and chromatin structure in maize, a novel platform for genome response assays*. Poster presentation at NSF Plant Genome Research Program Awardee Meeting, NSF PGRP, Arlington, VA, USA. (National)
- Vera, D. L., Brown, A. N., & Bass, H. W. (presented 2010, May). Analysis of the Genetic Control of Telomere Length in Maize (Zea mays, L.). Presentation at 2010 Beta Beta Beta Biennial National Convention, Beta Beta Beta Biological Honor Society, Durango, Colorado, USA. (National)
- Howe, E. S., Murphy, S. P., & Bass, H. W. (presented 2010, May). *Microscopic Analysis of Transgenic Maize Lines Expressing a Fluorescent Histone, H2B::mCherry*. Poster presentation at 2010 Biennial National Beta Beta Beta Convention, Beta Beta Biological Honor Society, Durango, Colorado, USA. (National)
- Murphy, S. P., & Bass, H. W. (presented 2010, March). *Maize SUN domain proteins; a 5-member gene family encoding two distinct classes (CCT and PM3 types) of nuclear envelope proteins*. Poster presentation at 52nd Annual Maize Genetics Conference, Conference organizing committee, Riva del Garda, Italy. (International)
- Dennis, J. H., Fincher, J. A., McGinnis, K. M., & Bass, H. W. (presented 2010, March). Nucleosome mapping and chromatin structure in maize, a novel platform for genome response assays. Poster presentation at 52nd Annual Maize Genetics Conference, Conference organizing committee, Riva del Garda, Italy. (International)
- Howe, E. S., Murphy, S. P., & Bass, H. W. (presented 2010, February). *Microscopic Analysis of Transgenic Maize Lines Expressing a Fluorescent Histone, H2B::mCherry*. Presentation at Tri Beta Biological Honors Society Poster Competition, Tri Beta Biological Honors Society, Tallahassee, FL, USA. (Local)
- Dieck, C. B., Wood, A. G., Bass, H., Im, Y. J., & Boss, W. F. (presented 2010). *Plant nuclear lipid signaling*. Poster presentation at Annual Meeting ASMBM, American Society for Biochemistry and Molecular Biology. (National)
- Figueroa, D. M., Beckham, K. D., Davis, J. D., Lawrence, C. J., & Bass, H. W. (presented 2009, March). *Constructing a cytogenetic map of maize in oat addition lines using* Sorghum *BACs as FISH probes*. Poster presentation at 51st Annual Maize Genetics Conference, Conference organizing committee, St. Charles, IL. (International)
- Brown, A. N., Lauter, K. M., Fredette, N. C., Lastra, E. G., & Bass, H. W. (presented 2009, March). *Mapping of telomere length regulating factors*. Poster presentation at 51st Annual Maize Genetics Conference, Conference organizing committee, St. Charles, IL. (International)

- Murphy, S. P., & Bass, H. W. (presented 2009, March). *Molecular analyses of a SUN (Sad1p/Unc-84) domain-containing protein gene in maize (Zea mays L), a candidate for the desynaptic gene*. Poster presentation at 51st Annual Maize Genetics Conference, Conference organizing committee, St. Charles, IL. (International)
- Beckham, K. D., Figueroa, D. M., & Bass, H. W. (presented 2008, March). *Bioinformatic selection of* Sorghum *BACs for use as FISH probes in developing a cytogenetic map of maize*. Poster presentation at Biennial National Convention, Beta Beta National Honorary Society, Highland Heights, KY. (National)
- Beckham, K. D., Figueroa, D. M., Lawrence, C. J., & Bass, H. W. (presented 2008, March). Bioinformatic selection of syntenic Sorghum BACs with maize core bin markers for use as FISH probes in the development of a cytogenetic map of maize. Poster presentation at 50th Annual Maize Genetics Conference, Conference organizing committee, Washington, DC. (International)
- Figueroa, D. M., Amarillo, F. E., Beckham, K. D., Davis, J. D., Lawrence, C. J., & Bass, H. W. (presented 2008, March). *Constructing a cytogenetic map of maize In oat addition lines using* Sorghum *BACs as FISH probes*. Poster presentation at 50th Annual Maize Genetics Conference, Conference organizing committee, Washington, DC. (International)
- Murphy, S. P., & Bass, H. W. (presented 2008, March). *Constructing a cytogenetic map of maize In oat addition lines using* Sorghum *BACs as FISH probes*. Poster presentation at 50th Annual Maize Genetics Conference, Conference organizing committee, Washington, DC. (International)
- Figueroa, D. M., Amarillo, F. E., Beckham, K. D., Davis, J. D., Lawrence, C. J., & Bass, H. W. (presented 2008, March). *Constructing a cytogenetic map of maize In oat addition lines using* Sorghum *BACs as FISH probes*. Poster presentation at 50th Annual Maize Genetics Conference, Conference organizing committee, Washington, DC. (International)
- Brown, A. N., Fredette, N. C., McLaughlin, K. A., Lorenzen, J. A., Lauter, N., & Bass, H. W. (presented 2008, March). *Genetic analysis of telomere length regulation*. Poster presentation at 50th Annual Maize Genetics Conference, Conference organizing committee, Washington, DC. (International)
- Fredette, N. C., Brown, A. N., & Bass, H. W. (presented 2008, March). *Genetic analysis of telomere length variation in maize (*Zea mays *L.*). Poster presentation at Biennial National Convention, Beta Beta Beta National Honorary Society, Highland Heights, KY. (National)
- Davis, J. D., Figueroa, D. M., Ring, B. C., Conejo, M. S., Amarillo, F. E., Strobel, C. L., & Bass, H. W. (presented 2008, March). *RFLP full-length insert sequence (RFLP-FLIS) data for use in the cytogenetic map of maize project*. Poster presentation at 50th Annual Maize

- Genetics Conference, Conference organizing committee, Washington, DC. (International)
- Fredette, N. C., Davis, J. D., St Jean, D., Gabriel, R. E., Morganti, A. T., Hay, M. D., Graffius-Ashcraft, K., Hill, R. J., Doster, J., Onokpise, O., & Bass, H. W. (presented 2008, March). *The Maize-10-Maze Project, an educational public chromosome map garden featuring the magnificent mutants of maize*. Poster presentation at 50th Annual Maize Genetics Conference, Conference organizing committee, Washington, DC. (International)
- Murphy, S. P., & Bass, H. W. (presented 2007, May). *Molecular genetic and cytological characterization of meiotic chromosome segregation mutants in maize*. Presentation at Annual Workshop, UF PMCB Program Workshop organizing committee, Jacksonville Beach, FL. (Regional)
- Figueroa, D. M., Amarillo, F. E., Strobel, C. E., Lawrence, C. J., & Bass, H. W. (presented 2007, March). *Constructing a cytogenetic map of maize core bin markers in oat addition lines using* Sorghum *BACs as FISH probes*. Poster presentation at 49th Annual Maize Genetics Conference, Conference organizing committee, St. Charles, IL. (International)
- Amarillo, F. E., & Bass, H. W. (presented 2007, March). *Construction of a* Sorghum *BAC-based cytogenetic map of maize pachytene chromosome 9*. Presentation at 49th Annual Maize Genetics Conference, Conference organizing committee, St. Charles, IL. (International)
- Figueroa, D. M., Amarillo, F. E., Fredette, N. C., Morganti, A. T., Davis, J. D., Lawrence, C. J., & Bass, H. W. (presented 2007, January). *Constructing a cytogenetic map of the maize genome*. Poster presentation at Plant & Animal Genomes XV Conference, Conference organizing committee, San Diego, CA. (International)
- Ritchey, L. B., Brown, A. N.]., Lauter, N., & Bass, H. W. (presented 2006, November). *Analysis of DNA for QTL mapping of genetic factors that control telomere length in maize*. Poster presentation at Second Annual Poster Board Competition, Tri-Beta Biological Honor Society, FSU College of Medicine, Tallahassee, FL. (Local)
- Beckham, K. D., Figueroa, M. M., Amarillo, F. E., Lawrence, C. J., & Bass, H. W. (presented 2006, November). *Isolation and characterization of* Sorghum *BACs for cytogenetic mapping of maize genome*. Poster presentation at Second Annual Poster Board Competition, Tri-Beta Biological Honor Society, FSU College of Medicine, Tallahassee, FL. (Local)
- Fredette, N. C., Murphy, S. P., & Bass, H. W. (presented 2006, November). *Mapping a meiosis-specific maize mutant by bulked-segregant analysis*. Poster presentation at Second Annual Poster Board Competition, Beta Beta Biological Honor Society, FSU College of Medicine, Tallahassee, FL. (Local)
- Davis, J. D., Koumbaris, G. L., Figueroa, M. M., & Bass, H. W. (presented 2006, November). Sequence analysis of maize RFLP markers for in silico screening. Poster presentation at

- Second Annual Poster Board Competition, Tri-Beta Biological Honor Society, FSU College of Medicine, Tallahassee, FL. (Local)
- Bass, H. W., Amarillo, F. E., Figueroa, D. M., Ring, B. C., Morganti, A. T., Fredette, N. C., Davis, J. D., & Lawrence, C. J. (presented 2006, September). *A cytogenetic map of maize with sorghum BAC FISH probes*. Poster presentation at Plant Genome Research Program Awardee Meeting, National Science Foundation, Arlington VA. (National)
- Okagaki, R., Jacobs, M., Schneerman, M., Kynast, R., Buescher, E., Amarillo, F. E., Lawrence, C. J., Stec, A., Kamps, T., Chase, C., Rines, H. W., Weber, D., Bass, H. W., & Phillips, R. L. (presented 2006, March). *A comparison of centromere mapping techniques*. Poster presentation at 48th Maize Genetics Conference, Conference organizing committee, Asilomar Conference Grounds, Pacific Grove, CA. (International)
- Figueroa, D. M., Amarillo, F. E., Ring, B. C., Strobel, C. L., Lawrence, C. J., & Bass, H. W. (presented 2006, March). *Constructing a cytogenetic map of maize core bin markers in oat addition lines using sorghum BACs as FISH probes*. Poster presentation at 48th Maize Genetics Conference, Conference organizing committee, Asilomar Conference Grounds, Pacific Grove, CA. (International)
- Amarillo, F. E., Bass, H. W., & Lawrence, C. J. (presented 2006, March). *Construction of a high-density cytogenetic map of maize chromosome 9 sing sorghum BACs as FISH probe*. Poster presentation at 48th Maize Genetics Conference, Conference organizing committee, Asilomar Conference Grounds, Pacific Grove, CA. (International)
- Marian, C. O., & Bass, H. W. (presented 2006, March). *Identification of gene families encoding double-stranded telomere repeat DNA-binding and related proteins*. Presentation at 48th Maize Genetics Conference, Conference organizing committee, Asilomar Conference Grounds, Pacific Grove, CA. (International)
- Lawrence, C. J., Seigfried, T. E., Anderson, L. K., Amarillo, F. E., & Bass, H. W. (presented 2006, March). *Predicting chromosomal locations of genetically mapped loci in maize using the Morgan2McClintock translator*. Poster presentation at 48th Maize Genetics Conference, Conference organizing committee, Asilomar Conference Grounds, Pacific Grove, CA. (International)
- Moore, J. M., & Bass, H. W. (presented 2006, February). *Plant telomeric proteins*. Presentation at 103rd Annual Meeting, Southern Association of Agricultural Scientists, Biochemistry Division, Orlando FL. (Regional)
- Figueroa, D. M., Amarillo, F. E., Ring, B. C., Strobel, C. E., Lawrence, C. J., & Bass, H. W. (presented 2006, January). *A cytogenetic map of maize in oat addition lines using sorghum BACs As FISH probes*. Poster presentation at Plant and Animal Genome XIV Conference, Conference organizing committee, San Diego, CA. (National)

- Amarillo, F. E., & Bass, H. W. (presented 2006, January). *Construction of a high-density cytogenetic map of maize chromosome 9*. Presentation at Plant and Animal Genome XIV Conference, Conference organizing committee, San Diego, CA. (National)
- Lawrence, C. J., Amarillo, F. E., Seigfried, T. E., Bass, H. W., & Anderson, K. K. (presented 2006, January). *Predict chromosomal locations of genetically mapped loci in maize using the Morgan2McClintock translator*. Poster presentation at Plant and Animal Genome XIV Conference, Conference organizing committee, San Diego, CA. (National)
- Amarillo, F. E., Lawrence, C. J., & Bass, H. W. (presented 2005, March). *Construction of a high-density cytogenetic map of maize chromosome 9*. Poster presentation at 47th Maize Genetics Conference, Conference organizing committee, Lake Geneva, WI. (International)
- Figueroa, D. M., Strobel, C. L., Ring, B. R., & Bass, H. W. (presented 2005, March). Development of a pachytene cytogenetic FISH map of the 90 core bin marker loci. Poster presentation at 47th Maize Genetics Conference, Conference organizing committee, Lake Geneva, WI. (International)
- Brown, A. N., Lauter, N., & Bass, H. W. (presented 2005, March). *QTL mapping of telomere length-regulating factors*. Poster presentation at 47th Maize Genetics Conference, Conference organizing committee, Lake Geneva, WI. (International)
- Marian, C. O., & Bass, H. W. (presented 2005, March). *The* Terminal acidic SANT 1 (Tacs1) gene of maize is expressed in tissues containing meristems and encodes an acidic SANT domain similar to some chromatin-remodeling complex proteins. Poster presentation at 47th Maize Genetics Conference, Conference organizing committee, Lake Geneva, WI. (International)
- Marian, C. O., & Bass, H. W. (presented 2004, May). *The maize* Single Myb Histone 1 *gene*, Smh1, *encodes a protein that binds telomere DNA repeats in vitro and belongs to a new class of plant genes*. Presentation at Fifteenth Annual Plant Molecular and Cellular Biology Workshop, Workshop organizing committee, Daytona Beach, FL. (National)
- Bass, H. W., Amarillo, F. E., & Lawrence, C. J. (presented 2004, March). *Cytogenetic mapping of maize with sorghum BAC FISH probes*. Poster presentation at 46th Maize Genetics Conference, Conference organizing committee, Mexico City, Mexico. (International)
- Anderson, L., Salameh, N., Bass, H. W., Harper, L., Cande, M. Z., Weber, G., & Stack, S. (presented 2004, March). *Integrating genetic linkage maps with pachytene chromosome structure in maize*. Poster presentation at 46th Maize Genetics Conference, Conference organization committee, Mexico City, Mexico. (International)
- Lawrence, C. J., Koumbaris, G. L., Bass, H. W., Seigrired, T. E., & Brendel, V. (presented 2003, December). *Cytogenetic mapping and cellular localization data available at MaizeGDB*.

- Poster presentation at 43rd Annual Meeting, American Society for Cell Biology, San Francisco, CA. (National)
- Bass, H. W., Koumbaris, G. L., & Lawrence, C. J. (presented 2003, September). *A Cytogenetic Map of Maize with Sorghum BAC FISH Probes*. Poster presentation at NSF Plant Genome Research Program Awardee Meeting, National Science Foundation, Arlington VA. (National)
- Beyrouthy, M. J., Palko, L., Alexander, K. E., Bass, H. W., & Hurt, M. M. (presented 2003, August). *Coordinate regulation of YY1 subcellular localization and DNA synthesis*. Poster presentation at Mechanisms of Eukaryotic Transcription, Cold Spring Harbor Laboratory Meeting, Cold Spring Harbor, NY. (National)
- Marian, C. O., Goltz, M., Santarella, R. A., Danilevskaya, O., Meeley, R., & Bass, H. W. (presented 2003, March). *Isolation and characterization of a maize cDNA encoding a telomere repeat DNA oligonucleotide-binding protein*. Poster presentation at 45th Annual Maize Genetics Conference, Conference organizing committee, Lake Geneva, WI. (National)
- Koumbaris, G., & Bass, H. W. (presented 2003, March). Single-locus cytogenetic mapping in maize with marker-selected sorghum BACs as FISH probes on pachytene spreads from maize-chromosome-addition lines of oat. Poster presentation at 45th Annual Maize Genetics Conference, Conference organizing committee, Lake Geneva, WI. (International)
- Koumbaris, G., Swofford, R. D., & Bass, H. W. (presented 2003, January). Single-locus cytogenetic mapping in maize (Zea mays); Localization of three maize-RFLP-selected sorghum BACs by FISH with maize chromosome-addition lines of oat. Poster presentation at Plant & Animal Genome XI Conference, Conference organizing committee, San Diego, CA. (National)
- Koumbaris, G., Swofford, R. D., & Bass, H. W. (presented 2002, March). 3D FISH analysis of the structure of maize chromosome 9. Poster presentation at 44th Annual Maize Genetics Conference, Conference organizing committee, Orlando, FL. (International)
- Koumbaris, G., & Bass, H. W. (presented 2001, May). *3D FISH analysis of the structure of maize chromosome 9*. Presentation at Twelfth Annual Plant Molecular & Cellular Biology Workshop, Workshop organizing committee, Daytona Beach, FL. (National)
- Bass, H. W., Danilevskaya, O., Goltz, M., & Santarella, R. A. (presented 2001, February). *Towards analysis of meiotic telomere functions*. Poster presentation at 43rd Annual Maize Genetics Conference, Conference organizing committee, Lake Geneva, WI. (International)
- Bass, H. W., Goltz, M. K., & Koumbaris, G. (presented 2000, May). Analysis of meiotic telomere

- *behavior*. Presentation at 11th Annual Plant Molecular & Cellular Biology Workshop, Workshop organizing committee, Crystal River, FL. (National)
- Garza, D., Ring, B. C., Khatri, S., Trivigno, C., & Bass, H. W. (presented 2000, March).

 Development of a new method for functional analysis of the Drosophila genome: in vivo construction and transposition of a 100-kb P element. Poster presentation at 41st Annual Drosophila Research Conference, conference organizing committee, Pittsburgh, PA. (National)
- Ring, B. C., Bass, H. W., & Garza, D. (presented 1999, November). *In vivo construction and transposition of a 100 Kb P element*. Presentation at Southeast Drosophila Research Conference, conference organizing committee, Emory University, Atlanta, GA. (Regional)
- Cande, W. Z., Franklin, A. E., Cowan, C., Kaszas, E., Bass, H. W., Harper, & Carlton, P. M. (presented 1999, January). *Meiotic prophase chromosome behavior in maize*. Presentation at Plant & Animal Genome VII Conference, Plant & Animal Genome VII Conference organizing committee, San Diego, CA. (International)

Nonrefereed Presentations at Symposia

- Bass, H. W. (presented 2025, May). Empowering Student Wikipedians: Elevating Scientific Literacy in Biology Courses. In *2025 Provost's Showcase of Scholarly Teaching*. Poster presentation at the meeting of Florida State University, Tallahassee, FL. (Local)
- Youngberg, M. K., Sayad, B. M., Limeres, G. I., & Bass, H. W. (presented 2025, April). Poster #197: Investigating the Functional Association of Genes Sharing Cis-Acting Motifs in Maize Using Bioinformatics and Gene Ontology Analysis. In 25th annual Undergraduate Research Symposium. Poster presentation at the meeting of Center for Undergraduate Research and Academic Engagement, FSU, Tallahassee, FL. (Local)
- Nazario, S. Y., Lezama, C. M., & Bass, H. W. (presented 2025, April). Poster #236: Mapping Histone H2B-mCherry Genomic Insertion Sites Relative to DNA Replication Chromatin States in Maize. In *25th annual Undergraduate Research Symposium*. Poster presentation at the meeting of Center for Undergraduate Research and Academic Engagement, FSU, Tallahassee, FL. (Local)
- Downing, S. J., Askar, S. E., Sheridan, B. K. M., & Bass, H. W. (presented 2025, April). Poster #260: Mutant Maize in the Metaverse. In *25th annual Undergraduate Research Symposium*. Poster presentation at the meeting of Center for Undergraduate Research and Academic Engagement, FSU, Tallahassee, FL. (Local)
- Davis, J. D., Koumbaris, G. L., Figueroa, D. M., & Bass, H. W. (presented 2007, April). Analysis of maize RFLP markers: enabling in silico screens for *Sorghum* BAC FISH probes. In

- FSU Undergraduate Research Symposium. Poster presentation at the meeting of Florida State University, Tallahassee, FL. (Local)
- Beckham, K. D., Figueroa, D. M., Amarillo, F. E., & Bass, H. W. (presented 2007, April). Isolation and characterization of *Sorghum* BACs for cytogenetic mapping of the maize genome. In *FSU Undergraduate Research Symposium*. Poster presentation at the meeting of Florida State University, Tallahassee, FL. (Local)
- Fredette, N. C., Murphy, S. P., & Bass, H. W. (presented 2007, April). Mapping a meiosis-specific mutant by bulked-segregant analysis. In *FSU Undergraduate Research Symposium*. Presentation at the meeting of Florida State University, Tallahassee, FL. (Local)
- Beyrouthy, M. J., Bass, H. W., Palko, L., & Hurt, M. M. (presented 2004, January). The Yin Yang-1 (YY1) protein undergoes a DNA-replication-associated switch in localization from the cytoplasm to the nucleus at the onset of S phase. In *The Cell Cycle, Chromosomes and Cancer*. Poster presentation at the meeting of The Miami Nature Biotechnology Winter Symposia, Miami Beach, FL. (National)
- Palko, L., Bass, H. W., & Hurt, M. M. (presented 2000, November). YY1 and histone gene regulation—temporal changes in cellular localization. In *Cell Cycle Meeting*. Poster presentation at the meeting of Keystone Symposia, Taos, NM. (National)
- Bass, H. W. (presented 1999, August). The development of map-based cloning tools for maize. In *Second Annual Symposium on Impact of Molecular Biology on Crop Production and Crop Protection*. Poster presentation at the meeting of Cambridge Healthtech Institute, Minneapolis, MN. (National)
- Bass, H. W., & Garza, D. (presented 1999, March). Development of map-based cloning for maize. In *Symposium of the Consortium for Plant Biotechnology Research, Inc.* Poster presentation at the meeting of Consortium for Plant Biotechnology Research, Inc, Washington, D.C. (National)

Invited Lectures and Readings of Original Work

- Bass, H. (2025, September). Functional and Structural Genomics of Maize; Insights from Cistrome Occupancy, DNA replication, and 3D cytology. Delivered at Functional and Structural Genomics of Maize; Insights from Cistrome Occupancy, DNA replication, and 3D cytology, Interdisciplinary Plant Group Seminar, University of Missouri, Columbia, MO, USA. (Local)
- Bass, H. (2025, September). *New Approaches to Functional and Structural Genomics of Maize*. Delivered at Donald Danforth Plant Science Center, Danforth Plant Science Center, St. Louis, MO, USA. (Local)

- Bass, H. (2022, April). MNase MOA-Seq Pinpoints Native Cistrome Occupancy Amid Accessible Chromatin. Delivered at INARI, Webinar INARI, Boston, MA. (National)
- Bass, H. (2017, February). Structure-Function Relationships in the Cell Nucleus: Insights from Maize Genomics at Multiple Spatial Scales. Delivered at Department of Crop Sciences, University of Illinois, University of Illinois, USA. (National)
- Bass, H. (2016, December). *Open chromatin mapping in maize using differential nuclease sensitivity, DNS-seq.* Delivered at DOE Joint Genome Institute, DOE Joint Genome Institute, Walnut Creek, CA, USA, 94598. (National)
- Bass, H. (2016, July). Structure-Function Relationships in the Cell Nucleus: Insights from Maize Genomics at Multiple Spatial Scales. Delivered at Department of Pharmacology, University of South Alabama, College of Medicine, University of South Alabama, College of Medicine, Mobile, AL, USA. (Regional)
- Bass, H. (2015, January). *Differential Nuclease Sensitivity Mapping of Maize Chromatin*. Delivered at University of Florida, Interdepartmental Plant Molecular and Cellular Biology, Gainesville, FL. (State)
- Bass, H. W. (2013, June). *Meiotic telomere behavior and nuclear envelope proteins in maize*. Delivered at Instituto de Biología Molecular y Celular de Plantas (IBMCP), IBMCP Valencia, SPAIN. (International)
- Bass, H. W. (2013, May). *Maize Chromatin Profiling with Differential Nuclease Digestion*.

 Delivered at GDCB Spring 2013 Seminar Series, Iowa State University, 1102 Molecular Biology Building, Iowa State University, Ames Iowa, USA. (National)
- Bass, H. W. (2011, September). *Chromatin Structure and Genome Response in Maize*. Delivered at Department of Plant Biology, North Carolina State University, Raleigh, North Carolina. (Regional)
- Bass, H. W. (2009, February). *Analysis of telomeric proteins in maize*. Delivered at University of Arizona, Department of Plant Sciences, Tucson, AZ. (Local)
- Bass, H. W. (2007, September). *Guest lecture*. Delivered at University of Florida, Plant Cytogenetics, Gainesville, FL. (Local)
- Bass, H. W. (2006, October). Structure and function of the meiotic prophase chromosomes of maize. Delivered at University of Florida, Department of Horticultural Sciences, Gainesville, FL. (Local)
- Bass, H. W. (2006, October). Structure and function of the meiotic prophase chromosomes of maize. Delivered at Florida A&M University, Center for Viticulture and Small Fruit

- Research, Tallahassee, FL. (Local)
- Bass, H. W. (2004, September). *Molecular cytology of telomeres and chromosomes during meiosis in maize*. Delivered at University of Nebraska, Lincoln (Annual Plant Science Fall Retreat), Niobrara State Park, Niobrara, NE. (Local)
- Bass, H. W. (2004, April). *Analysis of the bouquet stage of meiosis in maize*. Delivered at University of North Dakota, Department of Biology, Grand Forks, ND. (Local)
- Bass, H. W. (2004, February). 3D FISH analysis of meiotic telomere clustering in maize.

 Delivered at Texas A & M University, Genetics, Texas A&M University, TX. (Local)
- Bass, H. W. (2003, March). 3D analysis of meiotic telomere functions in maize. Delivered at University of Illinois, Department of Crop Sciences, Urbana, IL. (Local)
- Bass, H. W. (2002, April). *The Human Genome Project*. Delivered at Trinity United Methodist Church, Lay Academy Hot Topics in Science, Tallahassee, FL. (Local)
- Bass, H. W. (2001, March). Analysis of meiotic telomere functions; 3D cytogenetics in pollen mother cells. Delivered at Department of Agronomy, University of Florida, Gainesville, FL. (Local)
- Bass, H. W. (2000, April). 3D molecular cytology of meiotic telomere behavior in maize. Delivered at Pioneer Hi-Bred, Des Moines, IA. (Local)

Exhibitions

Invited Exhibitions

Bass, P. M., & Bass, H. W. (contract). "Linkage" an exhibit in "Raise 251" [Art]. Alabama Contemporary Art Center, Mobile Alabama: Alabama Contemporary Art Center.

Information and Communication Technology

Internet Web Site Development

- Bass, H. W. (2023). *genome.bio.fsu.edu*. Retrieved from Florida State University, Dept. of Biological Science: https://genome.bio.fsu.edu/
- Bass, H. W. (2017). *OMERO at bio.fsu.edu*. Retrieved from Florida State University, Dept. of Biological Science: https://omero.bio.fsu.edu/webclient/
- Bass, H. W. (2017). genomaize. Retrieved from Florida State University, Dept. of Biological

- Science: http://www.genomaize.org/
- Bass, H. W. (2014). www.greenomebrowser.org (powered by iPlant). Retrieved from Florida State University, Dept. of Biological Science: http://www.greenomebrowser.org/
- Bass, H. W. (2009). *Cytogenetic Map of Maize, Outreach*. Retrieved from cytomaize.org: http://www.cytomaize.org/, http://www.cytomaize.org/, http://www.cytomaize.org/outreach/
- Bass, H. W., & Lawrence, C. J. (2005). *Cytogenetic Map of Maize, Data*. Retrieved from MaizeGDB: http://www.maizegdb.org/CMMprotocols.php
- Bass, H. W. (2000). *Supplemental Data and 3D Fluorescent Images*. Retrieved from Florida State University: http://bio.fsu.edu/bass/mv/bq2/bq2‐om9‐JCS00.html,

Patented Inventions

- Helentjaris, T. G., Boston, R. S., & Bass, H. W. (2006). *Development of a stress-responsive promoter from maize*. Patent 7074985, Florida State University. Tallahassee, FL.
- Boston, R. S., Bass, H. W., & O'Brian, G. R. (1996). *DNA encoding a ribosome-inactivating protein*. Patent 5552140, North Carolina State University. Raleigh, NC.
- Boston, R. S., Bass, H. W., & O'Brian, G. R. (1994). *DNA encoding a ribosome inactivating protein*. Patent 5332808, North Carolina State University. Raleigh, NC.

Contracts and Grants

Contracts and Grants Funded

- Bass, Henry W (PI). (May 2025–Feb 2026). *A Novel Mechanism Regulating Genome-wide mRNA Expression in Hypoxic Lung Disease*. Funded by University of South Alabama. (A25-0095-S001). Total award \$685,386.
- Bass, Henry W (PI). (Sep 2021–Sep 2024). *HEERF Research Funding*. Funded by FSU. (None). Total award \$14,000.
- Bass, Henry W (PI). (Jul 2021–Jun 2024). *A novel Drosophila platform for sequential genetic manipulations in vivo*. Funded by National Institutes of Health. (R21GM141734). Total award \$423,500.
- Bass, Henry W (PI). (Apr 2021–Mar 2024). *cis-Acting Elements Regulating Developmental control of Replication Timing*. Funded by San Diego Biomedical Research Institute.

- (333021-212-415). Total award \$356,722.
- Bass, Henry W (PI). (Sep 2020–Dec 2025). *Comparative genomic and spatial organization of DNA replication in Maize and Sorghum*. Funded by North Carolina State University. (PAM-P20-2578-SA01). Total award \$758,970.
- Bass, Henry W (PI), Guan, Jingjiao (Co-PI), Dennis, Jonathan Hancock (Co-PI), & Ali, Jamel (Co-PI). (May 2020–Aug 2020). *CCSF Covid: siRNAs for Coronavirus Gene Knock-Out Research*. Funded by FSU. (None). Total award \$20,000.
- Bass, Henry W (PI). (Jan 2020–Dec 2023). *Maize Epigenomic Response to Flooding-Induced Hypoxia*. Funded by Bayer Schering Pharma AG. (2019-01-057). Total award \$10,831.
- Bass, Henry W (PI). (Dec 2017–Feb 2019). *PG:Cytogenetic FISH Probes for Hop Genome Diagnostics*. Funded by FSU CRC. (None). Total award \$12,910.
- Sang, Qing-Xiang (Co-PI), Bass, Henry W (Co-PI), Fadool, James M (Co-PI), Li, Hong (Co-PI), Bienkiewicz, Ewa A (Co-PI), Stefanovic, Branko (PI), Wang, Yanchang (Co-PI), Rizkallah, Raed M (Co-PI), Kato, Yoichi (Co-PI), Gunjan, Akash (Co-PI), Zhu, Fanxiu (Co-PI), Yu, Hong-Guo (Co-PI), Laywell, Eric Dion (Co-PI), Ren, Yi (Co-PI), Tomko Jr, Robert J (Co-PI), & Wang, Yuan (Co-PI). (Jan 2017–Jan 2018). EIEG:High Content Imaging Multi-Mode Reader. Funded by FSU EIEG Award. (None). Total award \$50,000.
- Bass, Henry W (Co-PI), McGinnis, Karen (PI), & Lemmon, Alan R (Co-PI). (Jan 2017–Jul 2018). *EIEG:Purchase of a Boom Sprayer, Expanded Irrigation and Pole Barn*. Funded by FSU EIEG Award. (None). Total award \$15,172.
- Bass, Henry W (Co-PI), & Easterling, Katherine (PI). (Dec 2016–Dec 2019). *Cytogenetic Analysis of Humulus Lupulus*. Funded by Hopsteiner. (NONE). Total award \$134,310.
- Bass, Henry W (PI), Zhang, Jinfeng (Co-PI), Dennis, Jonathan Hancock (Co-PI), & Vera, Daniel (Co-PI). (Aug 2015–Jul 2021). *Nuclease Profiling as an Integrative Resource for Maize Epigenomics*. Funded by National Science Foundation. (1444532). Total award \$2,133,825.
- Bass, Henry W (PI), & Vera, Daniel (Co-PI). (Mar 2015–Sep 2015). *Chromatin Profile of W22 Maize Seedling Shoot by DNS-SEQ*. Funded by Danforth Foundation. Total award \$8,500.
- Bass, Henry W (PI). (Dec 2013–Nov 2014). *PG: G-Quadruplex Tools for Plant Energy Crisis Research*. Funded by FSU CRC. (None). Total award \$13,000.
- Bass, Henry W (Co-PI), Wilgenbusch, James C (Co-PI), Barrett, Michael G (PI), McCausland, John R (Co-PI), Pace, Donald G (Co-PI), Stagg, Scott (Co-PI), & Lemmon, Alan R (Co-PI). (Oct 2012–Sep 2015). CC-NIE Network Infrastructure: NoleNet Express Lane -- A

- Private Network Path for Research Data Transmission at Florida State University and Beyond. Funded by National Science Foundation. (1245758). Total award \$230,248.
- Bass, Henry W (Co-PI), Huettel, Markus H (Co-PI), Shatruk, Mykhailo (Co-PI), & Stroupe, Margaret Elizabeth (PI). (May 2012–May 2013). *EIEG: Custom mBRAUN Inert Gas Glovebox System*. Funded by FSU EIEG Award. (None). Total award \$33,640.
- Bass, Henry W (PI), McGinnis, Karen (Co-PI), & Dennis, Jonathan Hancock (Co-PI). (Sep 2010–Aug 2013). *Chromatin Structure and Genome Response in Maize*. Funded by National Science Foundation. (1025954). Total award \$1,529,900.
- Bass, Henry W (Co-PI), Taylor, John R (Co-PI), Lloyd, Donald A (Co-PI), Turner, Robert J (PI), Brummel-Smith, Kenneth V (Co-PI), & Keith, Verna M (Co-PI). (Sep 2009–Dec 2009). *Health Disparities and Stress Hypothesis*. Funded by National Institute on Aging. (R01AG034067). Total award \$771,393.
- Bass, Henry W (PI), & Murphy, Shaun Patrick (Co-PI). (Jul 2007–Jun 2009). *Molecular and Cytological Characterization of Maize*. Funded by American Heart Association. (0715487B). Total award \$43,540.
- Bass, Henry W (PI). (Aug 2003–Aug 2009). *ISGA: Cytogenetic Map of Maize*. Funded by National Science Foundation. (0321639). Total award \$1,602,452.
- Bass, Henry W (PI). (Apr 2001–Mar 2005). *Analysis of Meiotic Telomere Functions*. Funded by National Science Foundation. (MCB-0091095). Total award \$360,000.
- Bass, Henry W (PI). (Apr 2001–Mar 2005). *REU Supplement: Analysis of Meiotic Telomere Func*. Funded by National Science Foundation. (MCB-0091095). Total award \$21,995.

Postdoctoral Supervision

Mao, Y. (2011–12).

Ring, B. C. (2004–06).

Goltz, M. G. (1999–2000).

Service

As a professor, I have a strong commitment to service at all levels and have actively contributed to various departmental, university, and professional society committees, including chairing faculty searches and serving on the faculty senate, biosafety committee, and as a faculty sponsor for a women's ultimate team. I have also worked with groups locally and nationally to improve diversity, equity, and inclusion in the field of science. In addition to serving as an ad-hoc reviewer for articles, grants, and tenure reviews, I also support FSU students through the development and maintenance of public servers for maize genome

annotations and 3D cytology images of cells and chromosomes, which are available for use in teaching and research.

Florida State University

FSU University Service

Chair, University Biological Safety Committee (2022–present).

Faculty Advisor, Advisor, Women's Ultimate Frisbee, Student Organization (2013–present).

Member, Graduate Policy Committee of the Faculty Senate (2022–2023).

Member, University Biological Safety Committee (2006–2022).

Review committee member, FSU Study Abroad Review of Applicants (2018–2019).

Member, Honors Director search committee, FSU (2014).

Member, Honors Policy Committee, FSU (2005–2010).

Member, Rodgers Chair Search Committee, Biomedical Sciences Department (2006–2007).

Member, Faculty Search Committee, Biomedical Sciences Department (2005).

Liaison, Consortium for Plant Biotechnology Research, Inc (1999–2005).

FSU College Service

Member, Alternate, Faculty Senate, College of Arts & Sciences; Department of Biological Science (2025–2026).

Member, Faculty Senate, College of Arts & Sciences (2022–2024).

Member, Study Abroad Applications from CAS Review Committee (2018).

FSU Department Service

Member, Faculty Search, Genetics (2024–present).

Member, Dialogue Team subcommittee of DEIC (2021–present).

Member, CMB Hiring Committee (2025–2026).

Member, CSAC - Chair Search Advisory Committee (2023–2024).

Chair, Faculty Search, Computational Genomics (2023–2024).

Chair, Faculty Search, Computational Genomics (2022–2023).

Area Representative (Chair), CMB Graduate Program in Biological Science (2022–2023).

Chair, Promotion, Tenure, & Graduate Faculty Status Committee (PTGFS) (2022–2023).

Member, Promotion, Tenure, & Graduate Faculty Status Committee (PTGFS) (2020–2021).

Chair, Faculty Search, Cell Biology (2019–2020).

Chair, CSAC - Chair Search Advisory Committee (2017–2018).

Member, Promotion, Tenure, & Graduate Faculty Status Committee (PTGFS) (2016–2017).

Member, Ad Hoc Committee for Hongchang Cui (2010–2016).

Member, Search Advisory Committee for Biology Chair (2014–2015).

Member, Ad Hoc Committee for M. Elizabeth (Beth) Stroupe (2010–2015).

Member, Ad Hoc Committee for Jonathan H. Dennis (2009–2014).

Member, Ad Hoc Committee for Karen M. McGinnis (2009–2014).

Member, Ad Hoc Committee for Kathryn M. Jones (2009–2014).

Area Representative (Chair), CMB Graduate Program in Biological Science (2012–2013).

Member, Ad Hoc Committee for Hong-Guo Yu (2008–2012).

Member, Executive Committee (2010–2011).

Member 2008-09, chair 2009-10, member 2010-11, First Year Committee, CMB graduate students (2008–2011).

Member, Cluster Hire, Integrating Genotype and Phenotype (IGP) Action Committee (2006–2009).

Member, Executive Committee (2006–2007).

Member, Faculty Retreat on Undergraduate Curriculum Planning Committee (2006).

Member, 307 BIO Teaching Renovation Committee (2005–2006).

Member, Cell and Molecular Biology Faculty Search Committee (2005–2006).

Area Representative (Chair), CMB Graduate Program in Biological Science (2004–2005).

Member, Executive Committee (2004–2005).

Graduate Program Policy for Biological Science, Graduate Policy Committee (1999–2005).

Member, Faculty Evaluation Committee (2004).

Member, Taylor Professorship Selection Committee (2003).

Member, CryoEM Faculty Search Committee (cancelled) (2002).

Member, Faculty Evaluation Committee (2002).

Member, Promotion and Tenure Criteria Review Committee (2001).

Chairperson, MicroArray Facility Purchase Committee (2000).

Member, Mentoring Committee (1999).

Member, Executive Committee (1998–1999).

FSU Program Service

Chair, CMB Recruitment Committee (2018).

The Profession

Guest Editing for Refereed Journals

Bass, H. W. (Ed.). (2003). Telomeres [Special Issue]. Cell and Molecular Life Sciences, 60.

Editorial Board Membership(s)

Frontiers in Plant Science - Plant Cell Biology, Associate Editor (2022–present).

The Journal of Molecular Imaging & Dynamics (2010–2014).

Guest Reviewer for Refereed Journals

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Frontiers in Genetics (2021).
Planta (2021).
Genome Biology (2017–20).
Nucleus (2016–20).
Genome Research (2005–20).
Journal of Experimental Botany (J Exp Bot/JXB) (2000–20).
The Plant Journal (Plant J/TPJ) (1997–2019).
The Plant Cell (2010–18).
Genome (2005-18).
Proceedings of the National Academy of Sciences of the USA (PNAS) (2000–18).
Nucleic Acids Research (NAR) (2017).
Science Advances (2017).
Plant Science (2014–17).
PLOS Genetics (2012–17).
Plant Physiology (Plant Physiol) (2005–17).
Trends in Plant Science (TiPS) (2016).
Protoplasma (2015).
Genetics (1997–2014).
Bioinformatics (2013).
PLOS Computational Biology (2012).
PLOS ONE (2012).
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Biological Plantarum (2011).

BMC Plant Biology (2009).

Plant and Cell Physiology (Plant Cell Physiol) (2005).

BioTechniques (2000).

Chromosoma (2000).

Hereditas (2000).

Journal Cell Biology (J Cell Biol/JCB) (2000).

Journal of Cell Science (J Cell Sci/JCS) (2000).

Plant Breeding Reviews (2000).

Theoretical and Applied Genetics (2000).

Journal of Heredity (J Hered) (1997).

Reviewer or Panelist for Grant Applications

Czech Science Foundation, GACR, Department of Agricultural and Biological-Environmental Sciences (2021).

NSF, Plant Genome Research Program (DBI/IOS-PGRP) (1997–2020).

EU ERC-2019-COG (2019).

NSF panel: Emerging Frontiers Research & Innovation (EFRI) Chromatin & Epigenetic Engineering (CEE) (2017).

Austrian Science Fund (FWF); Erwin Schrödinger Fellowships (2016–2017).

BBSRC "David Phillip Fellowship" (2017).

NSF, Molecular and Cellular Biology (MCB) (1997–2002).

USDA, Plant Genetic Mechanisms (1997–2001).

USDA, Plant Growth and Development (1997–2001).

NSF, International Research Fellowship Program (1997–2000).

USDA, Plant Genome (1997–1998).

Service to Professional Associations

- Member, Root & Shoot subcommittee Inclusive Conference Working Group, ROOT & SHOOT (2022–present).
- Member, The Committee on Outreach, Diversity, Inclusion, and Equity (CODIE) Committee membership web page hosted at MaizeGDB https://www.maizegdb.org/mgc/outreach/, Committee on Outreach, Diversity, Inclusion, and Education (CODIE) (2020–present).
- Member, Organizing the annual Maize Genetics Meeting, Maize Genetics Meeting Steering Committee (MGMSC) (2023–2027).
- Session Chair MM25 Session 2 MODELING CORN, Conference Session Chair, Maize Genetics Meeting (2025).
- Session Chair MM24 Session 7 KEYNOTE SPEAKERS, Conference Session Chair, Maize Genetics Meeting (2024).
- Member, Mentor, Partnering with mentees to facilitate interactions with the maize genetics community through recurring online meetings before and after the annual Maize Genetics Conference, Maize Genetics Mentoring Program (2023–2024).
- Member, The Maize Genetics Committee on Outreach, Diversity, Inclusion, and Education, CODIE, maize genetics committee (2020–2023).
- Member, Awards & Nominations Committee (ANC) for the Maize Genetics Cooperation, Maize Genetics Awards & Nominations Committee (ANC) (2020–2023).
- Panelist, MGC Career Workshop, Maize Genetics Cooperation (2022).
- Facilitator & member of the planning subcommittee, Building Better Together Workshop: Strategies for a Healthy and Inclusive Research Community, CODIE committee of Maize Genetics Cooperation (2022).
- Member, CODIE RCN planning subcommittee for the workshop "Building Better Together: Strategies for a Healthy and Inclusive Research Community", CODIE, RCN planning subcommittee (2021–2022).
- Organizer, Pre-meeting Maize EPIC Network Workshop 2020, Workshop Organizer, Maize

- Genetics Conference (2020).
- Coorganizer, PAG XIV, Plant Cytogenetics Workshop, International Plant and Animal Genome Conference Workshop 2008 (2006–2008).

Consultation

- Florida Department of Education. Expert Review Panel Meeting for the Florida Statewide Science Assessments Grades 5 and 8, and the Biology 1 End-of-Course (EOC) Assessment, Tampa FL (2023).
- Florida Department of Education. Expert Review Panel Meeting for the Florida Statewide Science Assessments Grades 5 and 8, and the Biology 1 End-of-Course (EOC) Assessment (2022).
- Florida Department of Education. Expert Review Panel Meeting for the Florida Statewide Science Assessments Grades 5 and 8, and the Biology 1 End-of-Course (EOC) Assessment, in Tallahassee, FL (2021).
- Florida Department of Education. Expert Review Panel Meeting for the Florida Statewide Science Assessments Grades 5 and 8, and the Biology 1 End-of-Course, (EOC) Assessment, in Orlando, FL (2020).
- Florida Department of Education. Expert Review Panel Meeting for the Florida Statewide Science Assessments Grades 5 and 8, and the Biology 1 End-of-Course (EOC) Assessment (2019).
- Florida Department of Education. Expert Review Meeting for FCAT 2.0 Science and the Biology 1 End-of-Course Assessment (2015).
- Florida Department of Education. Expert Review Meeting for FCAT 2.0 Science and the Biology 1 End-of-Course Assessment (2012).

Additional Service Not Reported Elsewhere

- Bass, H. (2018–2020). Steering Committee Member of Maize Epigenetics and Chromatin network: Maize EPIC, an international group of scientists. Maize Epigenetics and Chromatin network: Maize EPIC.
- Bass, H. W. (2008–2021). Letters of evaluation for promotion and tenure at other universities. various.

Member EU COST ACTION INDEPTH

Bass, H. (2018–2019). Impact of Nuclear Domains On Gene Expression and Plant Traits (INDEPTH). EU.

Public Server - GENOMAIZE genome browser

Bass, H. W. (2018–2022). GENOMAIZE.ORG, a UCSC genome browser, public data server for analysis of maize genomics at http://www.genomaize.org/. HW Bass (admin) within FSU Dept. Biological Science.

Public Server - OMERO 3D Image Database for Teaching & Research

Bass, H. W. (2016–2022). *OMERO Image Analysis Server for Teaching and Research, with INDEPTH video https://www.youtube.com/watch?v=t0JvvbRmHcs, and at https://omero.bio.fsu.edu/webclient/userdata/?experimenter=-1*. HW Bass (admin) within FSU Dept. Biological Science.