

REU MENTORS & THEIR RESEARCH PROJECTS

JONATHAN ARNOLD (Genetics) – systems biology of the biological clock
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MARIN T. BREWER (Plant Pathology) – Evolution and genetics of plant pathogenic fungi.
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MELISSA DAVIS (Genetics) – Translational (Basic Science to Clinical) Medical Oncology and Medical Education.
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KELLY DYER (Genetics) – Drosophila speciation and adaptation.
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DAVID J. GARFINKEL (Biochemistry). Retrovirus-like transposons in budding yeast, innate defense mechanisms, and genome stability.
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TONY GLYNN (USDA) – Fungal genomics of grass endophytes
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SCOTT GOLD (Plant Pathology) – Fusarium and biological control of mycotoxins
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JUAN GUTIERREZ (Mathematics and Institute of Bioinformatics) – systems biology of malaria
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DAVID HALL (Genetics) – mathematical models of evolution and experimental evolution in yeast.
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NATARAJAN KANNAN (Biochemistry and Institute of Bioinformatics). Evolutionary systems biology, comparative genomics, protein structure, function and evolution.
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SIDNEY KUSHNER (Genetics). Post-transcriptional control of gene regulation.
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ZACHARY LEWIS (Microbiology) – Chromatin structure and function in *Neurospora crassa*.
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MICHAEL MCEACHERN (Genetics) - Telomeres, cancer and yeast
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RICHARD B. MEAGHER (Genetics) Molecular and Evolutionary genetics of gene families and phytoremediation.
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JAN MRAZEK (Microbiology & Institute of Bioinformatics) Microbial comparative genomics, prokaryotic genome composition, structure, and evolution.
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BERND SCHÜTTLER (Physics)- Modeling and identification of biological circuits in Neurospora
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ANDREA SWEIGART (Genetics)- Adaptation and speciation in plants
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THIAB TAHA (Computer Science) – Computational circuit models as systems of differential equations.
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MICHAEL TERNS (Biochemistry) – small-RNA based immunity to viruses
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CHUNG-JUI TSAI (Genetics). Genetic regulation of Vitamin K in soybean.
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SHANNON QUINN (Computer Science). Bioimaging, public health dynamics, and machine learning at scale.
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JEFFREY URBAUER (Biochemistry) – Transcription in *Escherichia coli*
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YING XU (Biochemistry)– Cancer and microbial bioinformatics and systems biology
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SHAYING ZHAO (Biochemistry and Institute of Bioinformatics) – Comparative genomics of mammals and their epigenetics.
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