



Missouri High School Students and Teachers are invited to join us on Monday, April 16th

Exploring Life Sciences at MU 2012 Conference

Be part of a celebration of Life Sciences Research at MU!

"This is a wonderful opportunity for your students to explore current scientific research and learn about real-world applications" - Dr. Deanna Lankford

Conference Coordinator



Exploring Life Sciences at MU

A Missouri Life Sciences Week (April 16-21) event!

Monday, April 16, 2012

8:30 am—3:00 pm in the Monsanto Auditorium in the Bond Life Sciences Center on the MU Campus

You and your students are invited to participate in the annual Exploring Life Sciences Conference at the University of Missouri on Monday, April 16, 2012!

The theme for the 2012 conference is genetically modified organisms. Students will have an opportunity to learn about real-world applications for cutting edge research from research scientists at MU. Presenters include MU research scientists, Dr. George Stewart, Dr. Randall Prather, and Dr. James Schoelz. Each will present their research with transgenic organisms and discuss real-world applications for their work. Students study genetics and biotechnology, but often lack a clear understanding of the applications for these disciplines in their lives.

This conference provides an opportunity for students to explore life science research, ask questions of world-class researchers, and interact with undergraduate students during poster presentations in the afternoon conference session.



Exploring Life Sciences at MU 2012—Program

8:00am CONFERENCE REGISTRATION—Monsanto Auditorium Foyer

8:45–9:00am Welcome—Monsanto Auditorium

DR. JACK SCHULTZ: Director of Bond Life Sciences Center and Professor of Biochemistry at MU

9:00–10:00am DR. GEORGE STEWART: Chairman, Department of Veterinary Pathobiology and McKee Professor of Microbial Pathogenesis

Darwin's Germ: The Life and Times of E. coli

10:00–10:15am Cookies and Conversation

10:15–11:15am DR. RANDALL PRATHER: Curators' Professor; Associate-Leader of Reproductive Biology Cluster Food for the 21st Century and Co-Director of the National Swine Resource and Research Center.

Transgenic Pigs and Human Health

11:15–12:15pm DR. JAMES SCHOELZ: Professor, Division of Plant Sciences

Transgenes in Our Food; Viruses in Our Food

12:15–1:15pm Lunch

1:15–3:00pm LIFE SCIENCES WEEK POSTER SESSION: Your students will have the opportunity to visit with undergraduate and graduate researchers during poster presentations in Bond Life Sciences Center.

Conference Presenters:

Dr. George Stewart's research is focused on Regulation of virulence gene expression; global regulation of enterotoxin gene expression in *Staphylococcus*; expression of sporulation-specific proteins in *Bacillus*; characterization of the leukotoxin of *F. necrophorum*.

Dr. Randall Prather's research is focused on improving reproductive efficiency in domestic animals by performing directed research in developmental biology and reproductive physiology, by focusing on the molecular, cellular and physiological events surrounding ovulation, fertilization and preimplantation embryonic development.

Dr. James Schoelz's research is focused on understanding the environmental and genetic factors that influence the pathogenicity and host range of plant viruses.

