

2010 SUMMER BIOMEDICAL RESEARCH SYMPOSIUM

Schedule of Events

Tuesday August 10, 2010

- 9:00 a.m. – 10:15 a.m. Student Oral Presentations:
Session I
- 10:15 a.m. – 10:30 a.m. Break
- 10:30 a.m. – 11:45 a.m. Student Oral Presentations:
Session II
- 11:45 a.m. – 12:45 p.m. Lunch
- 12:45 p.m. – 1:15 p.m. Student Poster Session
- 1:15p.m. – 2:45 p.m. Student Oral Presentations:
Session III

Oral Presentations

Each presentation is 10 minutes followed by 3 minutes for questions.

The author in bold is the presenter.

Session I Moderators:

Dr. Mary Anne Nelson, Dr. Steve Phillips and Dr. Maggie Werner-Washburne

- 9:00 a.m. Lobo A The Use of Phage Display Protein Selection for the Development of More Efficient Targeted Drug Delivery Nanoparticles
Robert Castillo**, Eric Carnes, Carlee Ashley, Jeffrey Brinker
- 9:00 a.m. Lobo B Identification and sequencing of T Cell Receptor delta locus expressed in the spleen of the duckbill platypus, *Ornithorhynchus anatinus*
Roberto A. Gómez***, Zuly E. Parra, Robert D. Miller
- 9:15 a.m. Lobo A Proteomic Characterization of Human Prostatic Field Cancerization
Lindsay Candelaria***, Virginia Severns, Trisha Fleet, Charlotte Mobarak, Marco Bisoffi.
- 9:15 a.m. Lobo B Light Activated Antimicrobial “Roach Motel” Synthesis by Conjugated Polyelectrolyte Deposition
Taylor Canady**, Thomas Corbitt, Ying Wang, Kirk S. Schanze, and David G. Whitten
- 9:30 a.m. Lobo A Surface-based Protease Assays
Jose Cornejo++, Jingshu Zhu, Matthew Saunders, Marisa Durfee, Steven Graves, Gabriel Lopez
- 9:30 a.m. Lobo B Identification of the gene responsible for the *wings apart* phenotype in *Drosophila melanogaster*
Ginny R. Morriss** and Richard M. Cripps
- 9:45 a.m. Lobo A Role of estrogen receptor GPR30 in T cell modulation of colon cancer
Matthew F. Peralta+++, Ayesha S. Burdett, and Thomas F. Turner
- 9:45 a.m. Lobo B Ecological Conditions and Their Role in Antibiotic Production in Cave Bacteria
Lory O. Henderson**, MJ Vargas, Jessica R. Snider, and Diana E. Northup
- 10:00 a.m. Lobo A Identifying the oenocyte enhancer of *seven-up* in *Drosophila*
Grace A. Mason**, Kathryn M. Ryan, and Richard M. Cripps
- 10:00 a.m. Lobo B MBD1 regulates the expression of Numb protein in adult neural stem cells
Marie Reyes***, Dr. Xinyu Zhao, Changmei Liu and Christa Flitcroft

Oral Presentations

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The author in bold is the presenter.

Session II Moderators:

Dr. Mary Anne Nelson, Dr. Steve Phillips and Dr. Maggie Werner-Washburne

- 10:30 a.m. Magnetic Nano-Particles Bound Through Endocytosis and Non-Specific Binding in Order
Lobo A to Cause Cell Death
Amber Ortiz***, Helen Hathaway, Natalie Aldothi, Kim Butler and Robert Delfon
- 10:30 a.m. Molecular Markers of Asthma Among UTEP Cohort Sibling Pairs
Lobo B **Cassandra Garner****, Esther Erdei, Kirsten White, Nelda Martinez, Marianne Burwick,
Maria Anaya
- 10:45 a.m. Investigating the Kinetic Rates of Deoxyribozyme Enzyme Cascades
Lobo A **Marissa R. Anderson****, Samantha Schwartz, Carl Brown, Darko Stefanovic, and Steve
Graves
- 10:45 a.m. Laurel Tea as a Treatment for Inflammatory Bowel Disease
Lobo B **Oscar Munoz*****, Dorothy L. Vanderjagt, David V. Vanderjagt, Robert A. Orlando
- 11:00 a.m. Rab7 CMT2B Mutants Alter Function in Endosomal Transport, Growth Factor Signaling
Lobo A and Regulatory Protein Interactions
Patricia A. Jim++, S. Basuray, S. Mukherjee, E. Romero, C. Contreras and A. Wandinger-
Ness
- 11:00 a.m. Intestinal Microflora Enhances the Resolution of Rotavirus Infection
Lobo B **Monica M. Sandoval**** and Margaret Conner
- 11:15 a.m. Isotopic Signature of Photorespiration
Lobo A **Dianne Pater****, Erik Erhardt and David T. Hanson
- 11:15 a.m. Intermittent hypoxia causes pre-diabetes symptoms in rats
Lobo B **Xavier DeLeon****, Lina Aguirre, Kathleen Colleran, Nancy L. Kanagy
- 11:30 a.m. Analysis of the Yeast V-ATPase Subunit d: Its role for coupling H⁺ transport and ATP
Lobo A Hydrolysis
Elijah Weber**, Karlett Parra
- 11:30 a.m. A Genomic Investigation of Microbial Antibiotic Production in Cave Bacteria
Lobo B **Elizabeth Montano****, Lory O. Henderson, Martha Jo Vargas, Maria de Lurdes N. E.
Dapkevicius, and Diana E. Northup

Poster Session

Posters will be available for viewing from 9:00 a.m. - 3:00 p.m. in the Navajo Lounge.

Students will be with their posters for Q & A from 12:45 p.m. – 1:15 p.m.

The Relationship of Arm Usage and Instrumental Activities of Daily Living after Unilateral Stroke

Melissa Daniels++, Jenny K. Rinehart, Ronald Schrader, John C. Adair, Kathleen Y. Haaland

A Study of Solvent-based Sterilization on the Attachment and Detachment of Biological Cells on a Thermoresponsive Surface

Vanessa Eriacho**, Laura Pawlikowski, Heather Canavan

PH Study of NADH Dependent Enzymes for Bio-Anodes

Kristen Garcia**, Carolin Lau, Plamen Atanassov

The Role of RNA Interference in Response to West Nile Virus Infection in *Culex SPP*

Jon Kawatachi**, Doug Brackney, Gregory Ebel

Inhibitors of Lactate Dehydrogenase A as Therapeutics for Cancer

Andrea Martinez**, David L. Vander Jagt, and Lorraine M. Deck

Design and Synthesis of Lactate Dehydrogenase A Inhibitors

Alice Martinic**, David L. Vander Jagt and Lorraine M. Deck

Role of estrogen receptor GPR30 in T cell modulation of colon cancer

Kristin Owens**; Ryan Brunsing; Helen Hathaway, Eric Prossnitz

Oral Presentations

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Session III Moderators:

Dr. Mary Anne Nelson, Dr. Steve Phillips and Dr. Maggie Werner-Washburne

- 1:15 p.m.
Lobo A The Role of Pro-inflammatory Cytokines in Gastric Epithelial Cell Proliferation during *Helicobacter pylori* Infection
Noelle G. Martinez***, Rachel B. Earley, and Ellen J. Beswick
- 1:15 p.m.
Lobo B Development of single-molecule sequencing techniques that will aid in the genetic study of **cancer**
Janeth Pena++, and Dr. Scott Ness
Department of Molecular Genetics and Microbiology, University of New Mexico
- 1:30 p.m.
Lobo A MEF2 Regulation for Proper Drosophila Heart Development
Melody Martinez**, Richard Cripps and TyAnna Lovato
- 1:30 p.m.
Lobo B Investigation of Nitrogen Cycling in Carbonate Caves and Lava Tubes, Carlsbad Caverns National Park and El Malpais National Park, New Mexico
Jason C. Kimble**, Armand E. Dichosa, Jennifer J. M. Hathaway, Monica Moya, Diana E. Northup, M.J. Vargas
- 1:45 p.m.
Lobo A The differentiation of quiescent and nonquiescent *S. cerevisiae* cells in stationary phase
Melissa Wilson**, Anne Dodson, Elaine Manzanilla, Maggie Werner-Washburne