

**Rocky Mountain Branch-American Society for Microbiology
Spring 2004 Meeting
Colorado State University, Pathology Building Room 103
Fort Collins, Colorado**

- 8:15-8:55 am** Registration and Breakfast snacks
- 9:00 am** Greetings from the President, Tony Schountz
- 9:05 am** **Generation of Competent Antigen Presenting Cells and T Cell Lines from the Deer Mouse.** Bennett Davenport*², Derall Willis, Teri Coons, and Tony Schountz, Mesa State College and the Saccomanno Research Institute
- 9:25 am** **Identification and Phenotypic Characterization of Antigen-Specific CD8+ T Cells During Infection with *Mycobacterium tuberculosis*.** Scott Irwin*¹, Angelo Izzo, and Ian Orme, Colorado State University
- 9:45 am** **Microorganisms Associated with the Alimentary Canal of the Agricultural Insect Pests *Lygus lineolaris* and *Euschistus servus*.** Jacinta R. Schraufnagel*¹, Livy H. Williams III, and Timberley M. Roane, University of Colorado at Denver
- 10:05 am** **BREAK** *Please visit posters*
- 10:25 am** **Genome-wide transcriptome study of AppA-PpsR Regulatory System in *Rhodobacter sphaeroides*: Responses to Oxygen and Blue Light.** Oleg Moskvina*, S. Braasch, G. Klug, and M. Gomelsky, University of Wyoming
- 10:45 am** **Mini-Tn7 as a tool for directed chromosomal manipulation in *Yersinia pestis*.** Jared B. Gaynor*¹, Kyoung-hee Choi, and Herbert P. Schweizer, Colorado State University
- 11:05 am** **Waksman KeyNote Speaker- Dr. Janne Cannon**
- "*Francisella tularensis*: An Understudied Pathogen Moves Into the Limelight Due to Biodefense Concerns".**
- Department of Microbiology, Immunology, School of Medicine,
University of North Carolina at Chapel Hill, Chapel Hill, NC**

11:50-12:00 noon **LUNCH BREAK** *Please visit posters too*

Students are especially encouraged to visit with Dr. Cannon during this time!

12:40 pm **RMB-ASM officers business meeting in Room 107A**

Meeting resumes:

1:15 pm **Identification and Characterization of a Lytic Substance Against *Francisella tularensis*.** Claudia M. Schneekloth^{*1}, Claudia R. Gentry-Weeks, and May Chu, Colorado State University and the Centers for Disease Control, Fort Collins, CO

1:35 pm **Molecular Examination of a Putative Novel Protein Isolated from the Cadmium Resistant Soil Bacterium *Pseudomonas putida*.** Katie A. Atchison^{*}, Martin Gonzalez, and Timberley M. Roane, University of Colorado at Denver

1:55 pm **Cyclic diguanylate, a Novel Secondary Messenger in Bacteria.** Dmitri Ryjenkov^{*1}, Marina Tarutina, Oleg Moskvina, and Mark Gomelsky, University of Wyoming

2:15 pm **BREAK** *Please visit posters*

2:35 pm **Kinetics of Infection by Dengue Type 2 Virus in Mosquito Vector, *Aedes aegypti*,** Isabel Salazar^{*1}, Ken E. Olson, and Barry J. Beaty, Colorado State University, AIDL

2:55 pm **In Vitro Analysis of Regulated mRNA Turnover in Mosquitoes Reveals a Species-Specific mRNA Stability Element in Arbovirus,** Mateusz Opyrchal^{*1}, Carol J. Wilusz, and Jeffrey Wilusz, Colorado State University

3:15 pm **Medical Geology,** Ulli Limpitlaw^{*1} and Margaret Heimbrook, University of Northern Colorado

~ 3:45 pm **Close of Meeting**
Announcement of student awards

***1 = graduate student**

***2 = undergraduate student**

POSTERS

Undergraduate Posters

1. **Characterization of the Temperature-Sensitive *Escherichia coli*-*Mycobacteria* Shuttle vector pCG76.** Danielle R. Cogswell*, Torsten M. Eckstein, and Julia M. Inamine. Colorado State University.
2. **Characterization of a Major Cell Wall Lipid of *Mycobacterium avium* subspecies *paratuberculosis*.** Sukantha Chandrasekaran*, Torsten M. Eckstein, Michael R. McNeil, John T. Belisle, and Julia M. Inamine. Colorado State University.
3. **Characterization of Fecal Streptococci in Individual Stool Specimens Over Time.** Linda J. Travalent* and Rebecca V. Ferrell. Metropolitan State College of Denver.
4. **Optimizing Ammonia Oxidation in Constructed Sewage Treatment Wetlands.** Drew Davidson*, Eric Highfield*, Aaron Brown, Todd Bergren², and Rebecca Ferrell¹.
¹ Metropolitan State College of Denver, ² Community College of Aurora.
5. **Cloning of the RANTES (CCL5) Gene From the Deer Mouse.** Katie Sturgeon* and Tony Schountz. Mesa State College and the Saccomanno Research Institute.
6. **Cloning of a Deer Mouse Major Histocompatibility Complex Class II I-E beta Chain.** Gina Farrell* and Tony Schountz. Mesa State College and the Saccomanno Research Institute.
7. **The Emb Protein in *Mycobacterium smegmatis*.** Toni Nagy*, Varalakshmi Vissa, and Delphi Chatterjee, Colorado State University.
8. **Bacterial Fe(III) Reduction in Alpine Lake Sediments: A Window to Earth's Microbial Past.** Michael Boyd Stanchak* and Patricia J.S. Colberg. University of Wyoming.
9. **Acetylcholine Esterase Monitoring in *Aedes aegypti* Mosquitoes.** Becky Kruchten*, William C. Black IV, and Nancy DuTeau. Colorado State University.

*= presenter

Graduate Student Posters

10. **The Study of Different Gene Knockout Mouse Strains in Order to develop an *In Vivo* Model of Latent *Mycobacterium. tuberculosis* Infection.** Lisa Woolhisar*, Roni Gruppo, Christy Johnson, Karen Marietta, Anne Lenaerts, and Ian Orme. Colorado State University.
- 11 **Studies on Regulation of Essential *fabAB* Genes Using mini-Tn7T Vectors in *Pseudomonas aeruginosa*.** Kyoung-hee Choi* and Herbert P. Schweizer. Colorado State University.
- 12 **Evidence of Whole Virion Production in OVHV-2 Positive Lymphoblastoid Cell Lines.** Tshidi Tsibane*, Magdo Dunowska, Rob Callan, and James DeMartini. Colorado State University.
13. **Contribution of the C-terminus of EmbC in the Synthesis of Liporarabinomannan in *Mycobacterium smegmatis*.** Libin Shi*, Varalakshmi D. Vissa, Yufang Ma, and Delphi Chatterjee. Colorado State University

*= presenter

Regular Posters

- 14 **Cytokine Induction in Murine Macrophages and Dendritic Cells: Evidence for the Immunogenicity of 3 Mycobacterial Cell Wall Extracts.** Manal E. Moustafa*, Karen M. Dobos, Jennifer L. Taylor, and Ian M. Orme. Colorado State University.
- 15 **Methyltransferase Mutations in Defined Live *Salmonella* Vaccines.** Leonard D. Pearson*, Kenneth L. Schnorr, Theodore Kramer. Colorado State University.
- 16 . **Chronic Wasting Disease (CWD) of Deer and Elk: A Ferret Model.** M.R. Perrott*, C.J. Sigurdson, C.K. Mathiason, T. L. Foos, G.A. Eliason, and E.A. Hoover. Colorado State University.
- 17 **Lipidomics of *Mycobacterium avium* subsp. *paratuberculosis* compared to *Mycobacterium avium* subsp. *avium*.** Starsa Duskin, Torsten M. Eckstein*, John T. Belisle, and Julia M. Inamine. Colorado State University.

*= presenter