

# Kalamazoo College Biology Department

## 2005 Diebold Symposium

### Schedule of Events

#### Thursday, April 28, 2005: Opening Session 4:00 p.m. (Dow 226)

Dr. Jose Cibelli — Distinguished University Professor, Departments of Animal Science & Physiology  
Michigan State University

"Cellular Reprogramming: Understanding Nuclear Transfer and Stem Cells"

Reception Following

#### Friday, April 29, 2005: Lecture Session 4:00-6:00 p.m. (Dow 226)

4:00-4:20	<u>Noelle Cotey</u>	A Review of Diabetes Mellitus and Periodontal Diseases
4:20-4:40	<u>Celeste Karch</u>	The Oligomerization of Mutant Superoxide Dismutase-1 into Toxic Detergent Insoluble Species Observed in Familial Amyotrophic Lateral Sclerosis
4:40-5:00	<u>Stephanie Rashewsky</u>	Metabolic Response of Osteoblast-Like and Osteocyte-Like Cells to Extracorporeal Shock Waves
5:00-5:20	<u>Paul Johnson</u>	Latino Americans and Medicine: Access and Barriers to Healthcare
5:20-5:40	<u>Becky Tonietto</u>	The Bluegill Sunfish ( <i>Lepomis macrochirus</i> ) Affects Successful Insect Colonization through Predation and Competition
5:40-6:00	<u>Diane DeZwaan</u>	Purification of a Bacteriocin-Like Inhibitor Produced by <i>Enterococcus faecium</i> Strain 62-6 Antagonistic to the Growth of Vaginal Lactobacilli: Potential Significance for the Pathogenesis of Bacterial Vaginosis

#### Friday, April 29, 2005: Poster Session: 7:00-8:15 p.m. (Dow Third Floor)

<u>Drew Engers</u>	Protective Effects of Grape Seed Proanthocyanidin Extract IH636 Against Ischemia and Reperfusion Injury in HL-1 Cardiomyocytes
<u>Justin Horowitz</u>	Supplementation of DNA Polymerase $\gamma$ Will Slow Aging-Related Decline of Function
<u>Blake Hurt</u>	Construction and Characterization of <i>Helicobacter pylori</i> tRNA-Guanine Transglycosylase (TGT) in pET28a His-Tagged Vector
<u>Jacob Januszewski</u>	Expression of Mutant Epitope-Tagged TACE Constructs in TACE Knockout Fibroblasts and the Importance of TACE Cytoplasmic Domain in PKC-Mediated Phosphorylation
<u>Graham Johnson</u>	The Effects of Environmental Enrichment on the Ability of <i>Octopus rubescens</i> to Learn Novel Behavior
<u>Anthony Klemptner</u>	Investigation of Working and Hardness of SMARTPREP Instruments and Endpoint in Caries Affected Dentin
<u>Agata Pietrus</u>	Investigation of Small Sized Oral Keratinocytes and their Role in Fabricating Longer Lived EVPOME Grafts for Use as Devices in Gene Therapy
<u>Jennifer Renema</u>	Early Changes in the Striatum in a Rat Model of Parkinson's Disease
<u>Miles Rogers</u>	The Effects of Cytidine Deaminases on Cellular Transformation
<u>Aarti Soorya</u>	Determination of the SPD-Collectin in Balb/c and Black 6 Mice Post Infection of <i>Pseudomonas aeruginosa</i>
<u>Sara Stallings</u>	Detection of Toxicity with an Application of a Phosphorescent Oxygen Probe, Luxcel A65N, for an Assay System Screening Cellular Respiration

#### Friday, April 29, 2005: Poster Session: 8:15-9:30 p.m. (Dow Third Floor)

<u>Brett Blaauw</u>	Depression of a Coccinellid Functional Response to an Aphid by Sequestered Plant Chemical Defenses
<u>Eric Clarke</u>	Constructing a Deconstruction
<u>Andrea Gorno</u>	Population Study of Eastern Box Turtles, <i>Terrapene carolina</i> , at Fort Custer, Michigan
<u>Stephen Howe</u>	Evolutionary Factors Contributing to Genetic Differentiation between Subpopulations of <i>Raphanus raphanistrum</i>
<u>Tania Iqbal</u>	Angiotensin II Stimulation of NADPH Oxidase Activity and Secretion of Cyclophilin-A in Adventitial Fibroblasts; Potential Role in the Paracrine Mediation of Vascular Smooth Muscle Cell Hypertrophy
<u>Andrew Kurtz</u>	Is P.T. for Me?: A Transitional Summer
<u>Theresa Laeder</u>	Training Resources for Medical Interpreters and Genetic Counselors
<u>Joseph Maher</u>	How in a Sleep-Away Summer Camp Does Socio-Economic Status Fit into the Relationship Between Camper and Counselor?
<u>Lauren Poretz</u>	The Influence of Gestational Age at Delivery on Placental Morphology and Perinatal Outcomes in Pregnancies Complicated by Preeclampsia
<u>Sarah Scott</u>	Comparison of Rat $\alpha$ -GST ELISA to Rat $\alpha$ -GST Activity Assay for Use in High Throughput Toxicity Screening
<u>Alex Sirotek</u>	Light Availability Analysis of 24 Southwest Michigan Wetlands
<u>Peter White</u>	A Design of Experiments Approach for the Determination of Dissolution Sensitivities Applied to Three Formulations of Naproxen Free Acid Tablets

## Saturday, April 30, 2005: *Lecture Session: 9:00 a.m.-2:20 p.m. (Dow 226)*

9:00- 9:20	Coffee and Doughnuts	
9:20-9:40	<u>Rachel Mallinger</u>	The Success and Mechanisms of Mating Disruption for Two Tortricid Moth Species, <i>Grapholita molesta</i> and <i>Cydia pomonella</i> , in Pheromone-Treated Orchards and in a Sustained Flight Wind Tunnel
9:40-10:00	<u>Daniel Russell</u>	Purification and Partial Characterization of 2H4 Monoclonal Antibody Sensitive to A $\beta$ <sub>1-42</sub> Oligomers
10:00-10:20	<u>MaryBeth Carroll</u>	An Investigation of Differential Expression of Transcription Factors in Embryonic <i>Chelydra serpentina</i> , a Turtle with Temperature-Dependent Sex Determination
10:20-10:40	<u>Joe Asteriou</u>	Response of Ground Beetles to a Reduced-Risk Insecticide Program in Blueberry Fields, and Potential for Pest Predation
10:40-10:50	BREAK	
10:50 –11:10	<u>Lauren Yagiela</u>	The Growth and Division of <i>Burkholderia cepacia</i> , a Bacterium with Multiple Chromosomes
11:10-11:30	<u>Yvonne Boyle-Holmes</u>	The Characterization and Development of Electrophysiological Pharmacology Assays Testing for Potential QT Prolongation
11:30-11:50	<u>Benjamin Busman</u>	Use of Continuous Culture to Model the Establishment of Bacterial Vaginosis
11:50-12:30	LUNCH BREAK	
12:30-12:50	<u>Kelly Clapp</u>	Metabolism and Excretion of [ <sup>3</sup> H]-Resveratrol in Beagle Dogs, Rats and Mice After a Single Oral Dose
12:50-1:10	<u>Sean Pack</u>	Synthetic Cellular Scaffolds with Biomimetic Properties Interact Favorably with Osteoblasts
1:10-1:30	<u>Lauren Stockdale</u>	Parasite-Mediated Competition Between Burchell's Zebras and Endangered Populations of Grevy's Zebras in Kenya
1:30-1:40	BREAK	
1:40-2:00	<u>Amy Gordon</u>	The Importance of Cell Migration in Innate Immunity: Characterization of the BCL-6 <sup>-/-</sup> BMM Phenotype and of the PBM-Derived Macrophage Phenotype Associated with a Novel Immunodeficiency
2:00-2:20	<u>Michael Arcé</u>	Binding Analysis of the SRC-SH2 Employing a Robotic Spotting Technique and Preliminary SH2 Database Information
6:00pm	BANQUET	