

TCNJ Biology Research Internship Poster Program

December 3, 2008

Mark Bauernfeind

New York Botanical Garden (Pfizer Cullman Genomic Laboratory) and American Museum of Natural History (Genomics Lab)

*Population genetic analysis of the recently endangered cycad, *Cycadis micronesica*.*

Andrea Egizi

The Cary Institute of Ecosystem Studies-Millbrook, NY

*Distribution of *Entomophaga maimaiga* spores in oak forests and implications for gypsy moth populations*

Janine Bernardo

The University of North Carolina – Chapel Hill, Department of Biochemistry and Biophysics

*Mapping cellular stress-induced phosphorylation sites of DNA replication factor *Cdt 1**

Daniel DeMizio

NYS Institute of Basic Research in Developmental Disabilities--CUNY College of Staten Island, Division Human Genetics

Prenatal analysis of fragile X syndrome individuals for the joint expression of mosaic Turner syndrome

Emily Dudek

Coriell Institute for Medical Research-Stem Cell and Matrix Biology Laboratory

The optimal concentration of growth factors PDGF-AA, EGF, FGF1, FGF2, and TGF β for maintenance of human umbilical cord blood-derived mesenchymal stem cells

Danielle R. Erickson*

New Jersey Medical School (UMDNJ), Department of Orthopedics

Manipulating arachidonic acid metabolism to control bone regeneration

Sisi Grace Gao

Northern Arizona University, Department/Division Behavioral and Conservation

Temporal changes in population dynamics of the Pinyon jay

Zach Goldstein

UMDNJ-Newark, Department of Pathology

Silibinin potentiation of vitamin D $_3$ -induced differentiation and human kinase suppressor of Ras-2

Radha Govindra

UMDNJ-Newark, Department of Obstetrics, Gynecology and Women's Health

Metabolic reprogramming mechanisms in placental hypoxia

Krista Greene

Cashin Associates Engineering & Environmental Planning, Environmental Division

Shellfish population analysis of Hempstead Harbor, Nassau County, NY

**Poster to be presented in Spring, 2009*

Jeremy Hreha

University of Florida, Department of Pediatrics/Powell Gene Therapy Center
Creation of V642F and D404N mutations of the acid α -glucosidase (GAA) gene for vector production

Chetan Jeurkar

UMDNJ-Newark, Department of Cell and Molecular Biology
Calcium signaling in phototransduction: Air versus water, fish versus cow

Michael Jung

UMDNJ-Newark. School of Biomedical Sciences, Department of Molecular Biology
The role of Bec-1 in C. elegans oocyte quality

Simona Lekht

NJ Department of Agriculture, Department of Plant Industry
The effectiveness of protein analysis in identification of Russula species in North America

Aaron McKeon-Fish

Children's Hospital of Philadelphia, Department of Hematology/Gene Therapy
Minicircle plasmid vector development and purification for use in murine and canine gene therapy

Hsin Jou (Josephine) Ng

UMDNJ-Newark, Cancer Center, Department of Cell Biology and Medicine
Effects of ErbB2/Ras signaling network on metastatic potentials of prostate cancer cells

Sara Jackrel

West Texas A&M University, Department of Life, Earth and Environmental Sciences
Using infrared video to study bat activity and behavior

Joseph Sarhan

Yale University School of Medicine, Cardiology Department
Involvement of hnRNP in LFA-1-mediated T cell cytokine mRNA stabilization

Sagar Shah

UMDNJ-New Jersey Medical School, Department of Orthopaedics-Musculoskeletal Oncology
Status of large allografts following limbs salvage resection of tumors: A retrospective study

Emily Stumpf

Medical Diagnostic Laboratories-Hamilton, NJ-Antimicrobial Resistance Division
The role of the LytSR complex in penicillin tolerance in Group B Streptococcus

Nicholas Tarangelo

Weill Cornell Medical College, Division of Immunology, Department of OB-GYN
Hyaluronan levels in vaginal secretions and recurrent vulvovaginal Candidiasis (RVVC) infection

Corey Tong

University of Texas Health Science Center, San Antonio, TX, Department of Biochemistry
Structural determination of the FCS domain of Polycomb proteins during regulation of gene expression in stem cell development.