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03. Biology

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03 Biology

05.03.01 ~ Foraging Patterns of Carpenter Bees at Chasteberry Bushes on Lesvos

(Greece) John Barthell - University of Central Oklahoma Emily Brown - University of Massachusetts at Amherst Amanda Fernandez - University of Maryland Baltimore County Erika Metzler - Salem College Cody Pavlick- Bloomsburg University Vilnery Rivera-Figuera - University of Puerto Rico at Rio Piedras Taylor Salaguinto - Whitman College Victor Gonzalez - University of Kansas Jose Agosto-Rivera - University of Puerto Rico at Rio Piedras Theodora Petanidou - University of the Aegean at Mytilene John Hranitz - Bloomsburg University

05.03.02 ~ Extent and Distribution of Ticks and Tick-Borne Pathogens in Residential and Non-Residential Sites of Edmond, Oklahoma

Mariah Small - University of Central Oklahoma Robert Brennan - University of Central Oklahoma Sean Laverty- University of Central Oklahoma

05.03.03 ~ Use of a Daily Text Message to Increase Student Engagement and Retention in an Online Clinical Immunology Course

Alexis Jones - Northeastern State University

05.03.04 ~ Searching for a fast, simple way to accurately measure protein concentration in colored bacterial cultural media by spectrophotometer Ning Wu - Southeastern Oklahoma State University Erika Costain - Southeastern Oklahoma State University Teresa Golden - Southeastern Oklahoma State University

Brad Ludrick- Southeastern Oklahoma State University

05.03.05 FoxM1 Promotes Tubular Regeneration Following Acute Kidney Injury LaQuan Johnson - Langston University

05.03.06 ~ RTKACTIVATION FOLLOWING REMODELING OF THE ECM VIA HYALYRONIDASE PROMOTES AEROBIC GLYCOL YSIS Matthew Maxwell - Southeastern Oklahoma State University

05.03.07 ~ Viability of Cancerous Cells Under Low- and High-Dose Laser Irradiation Sana Mesiya - University of Central Oklahoma

05.03.09 ~ Determining conjugate diene in Sjogren's syndrome patients using spectrophotometry Huyen Tran - University of Central Oklahoma

05.03.10 ~ Oxidative damage in Sjogren's syndrome patients using ELISA assays

Huyen Tran - University of Central Oklahoma

05.03.11 ~ Modified Early Obstetric Warning System

Melissa Bell - Northwestern State University Kimberly McKinney- Northwestern State University

05.03.12 ~ Development of a microfluidic immunological assay for the detection and identification of Bluetongue virus and Enzootic hemorrhagic disease virus induced antibodies in serum.

MaryTappert- University of Central Oklahoma Hope Ogbeide - University of Central Oklahoma John Bowen - University of Central Oklahoma Robert Brennan - University of Central Oklahoma

05.03.13 ~ Southeastern Oklahoma State University undergraduate OK-LSAMPscholars participated in the NSF-supported summer international research training program in Beijing, China

Linsday Perez - Southeastern Oklahoma State University Brianna Cole - Southeastern Oklahoma State University Erika Costain - Southeastern Oklahoma State University Brad Ludrick- Southeastern Oklahoma State University Teresa Golden - Southeastern Oklahoma State University Ning Wu - Southeastern Oklahoma State University

05.03.14 ~ Cloning and Over-Expression of a Novel Thermophilic Nuclease From Sulfurihydrogenibium Azorense

Abigail Trejo - Southeastern Oklahoma State University Amy Grunden - North Carolina State University Vijay Somalinga - Southeastern Oklahoma State University

05.03.15 ~ Predation Preference of Toxorhynchites rutilus septentrionalis on Two Primary West Nile Vectors in Oklahoma

Daniel Marshall - University of Central Oklahoma

05.03.16 ~ Mars Regolith Simulant Grow Project

Dustin Mullings - Tulsa Community College

05.03.17 ~ Genetic Effects of Caffeine Treatments on Dupuytren's Contracture Cells in a High-Tension Environment

Sarah Olson - University of Central Oklahoma Mel Vaughan - University of Central Oklahoma Dr. Steven Karpowicz - University of Central Oklahoma

05.03.18 ~ Serologic Evidence of Viral Reactivation and Increased Disease Activity in Patients With Systemic Lupus Erythematosus

Rebecca Wood - Oklahoma Christian University Lauren Guthridge - Oklahoma State University Emma Thurmond - Oklahoma Medical Research Foundation Carla Guthridge - Oklahoma Medical Research Foundation Hua Chen - Oklahoma Medical Research Foundation Susan Macwana - Oklahoma Medical Research Foundation Joel Guthridge - Oklahoma Medical Research Foundation Judith James - Oklahoma Medical Research Foundation Rufei Lu - Oklahoma Medical Research Foundation Wade deJager - Oklahoma Medical Research Foundation Cristina Arriens - Oklahoma Medical Research Foundation Eliza Chakravarty- Oklahoma Medical Research Foundation Katherine Thanou - Oklahoma Medical Research Foundation Joan Merrill - Oklahoma Medical Research Foundation

05.03.19 ~ Overexpression of YAP1-TFE3/FAM118B Fusion Genes

Casey Love - Southeastern Oklahoma State University

05.03.20 ~ Genetic structure and the potential for hybridization in populations of

Peromyscus spp. of plateau regions in western Oklahoma Sarah Vrla - University of Central Oklahoma Michelle Haynie - University of Central Oklahoma

05.03.21 ~ The Prevalence of Trypanosoma cruzi in Mexican Free-Tailed Bats (Tadarida brasiliensis) at Three Maternity Roosts in Oklahoma

Matthew Nichols - University of Central Oklahoma Wendy Monterroso - University of Central Oklahoma Wayne Lord - University of Central Oklahoma Robert Brennan - University of Central Oklahoma Victoria Jackson - University of Central Oklahoma Michelle Haynie - University of Central Oklahoma

05.03.22 ~ An Assessment of Copper in High-Touch Areas for use in A Pharmacy's Cleanroom

Paul Olson - University of Central Oklahoma David Freeman - University of Central Oklahoma

05.03.23 ~ Hunting for Viruses: Protocols for the Isolation, Enumeration, and Characterization of Soil Bacteriophages

Paul Olson - University of Central Oklahoma Alma Marquez - University of Central Oklahoma

05.03.24 ~ Community-Level Antibiotic Profiling and Resistance of Microorganisms in Oklahoma Soils

Paul Olson - University of Central Oklahoma

Northwestern Oklahoma State University

David Freeman - University of Central Oklahoma Luis Frias - University of Central Oklahoma Alma Marquez - University of Central Oklahoma

05.03.25 ~ Antimicrobial Activity of Silver Nanoparticles Against Pathogenic Acinetobacter bumannii

Paul Olson - University of Central Oklahoma Dana Khdr Sabir - Charmo University, Iraqi Kurdistan

05.03.26 ~ Virology SEA-PHAGE Research Phage-Busephilis

Philip Karanja - University of Central Oklahoma

05.03.30 ~ Pick your poison: sublethal effects of pesticides on amphipod life history traits

Lindsey Hendricks - Southwestern Oklahoma State University Rickey Cothran - Southwestern Oklahoma State University

05.03.31 ~ Using Molecular Markers to Assess Contact Zones and Boundary Lines of Cryptic Species (Geomys) in Oklahoma

Michelle Haynie - University of Central Oklahoma Cristina Coffman - University of Central Oklahoma

05.03.32 ~ Intensity Matters: Perineuronal Nets Remodeling in Nalozone-

Percipitated Morphine Withdrawal on Female Adolescent

Ashley Brown - Tulsa Community College

05.03.33 ~ Analysis of Proliferation in Phenylalanine,Retinoic Acid, and 4diethylaminobenzaldehyde Treated Cells

Kayley Pate - University of Central Oklahoma Nikki Seagraves - University of Central Oklahoma

05.03.34 ~ The Effects of Phenylalanine, Retinoic Acid, and

Diethylaminobenzaldehyde on Cell Migration

McKayla Muse - University of Central Oklahoma Nikki Seagraves - University of Central Oklahoma Gabriel Rucci - University of Central Oklahoma

05.03.35 ~ Overexpression of Hydrophobins in the Fungal Cell Factory Aspergillus nidulans

Caleb Alexander - Oklahoma State University

05.03.36 ~ The effects of e-juice on CHO cells

Ayla Hughes - Tulsa Community College Steven Grace - Tulsa Community College

05.03.37 ~ Isolation and Characterization of Bacteriophage "Sasian" from Host Microbacterium foliorum

Haris Zafar - University of Central Oklahoma Sze Hoe Sea - University of Central Oklahoma Hari Kotturi - University of Central Oklahoma

05.03.38 ~ Detecting Historic Disturbance Regimes in an Oak-Hickory Forest at Hottonia Bottoms Nature Preserve

Justin cheek - University of Central Oklahoma Chad King - University of Central Oklahoma

05.03.39 ~ Evaluation of the Blue River for Presence of Campylobacter jejuni Gunner Parent and April Nesbit Gunner Parent - East Central University

05.03.40 ~ Cilia-driven Cellular Diffusion and Biomixing at Different Viscosities

Oswah Cheema - University of Central Oklahoma Kara Clark - University of Central Oklahoma Gang Xu - University of Central Oklahoma

05.03.42 ~ Redefining HTLV and Host Protein-Promoter Interactions in Magnetic Promoter Pull-Down Assays

Conner Anderson - East Central University Alisha Howard - East Central University

05.03.45 ~ YfaX and YggD protein function on sugar metabolism

Aljan Ranjit- East Central University

05.03.48 ~ ID biases in Citizen-Science Databases for Birds: Under-the-

radar observations. Joseph Grzybowski - University of Central Oklahoma

05.03.49 ~ Effects of bacterial secreted products on fibroblast lattice height and correlated contraction

Pratiksha Kshetri - University of Central Oklahoma Robert Brennan - University of Central Oklahoma Mel Vaughan - University of Central Oklahoma

05.03.50 ~ AEBSF inhibits adipogenesis and reduces fly body fat

Jin Seo - Rogers State University William Redmond - Rogers State University Morgan Youngblood - Rogers State University

05.03.51 ~ Imported species of pathogenic Fusarium species from Central America differ from Fusarium species in Oklahoma

Cierra Soden - East Central University

05.03.52 Bacteriophage therapy against E.coli

Eric Paul - Southwestern Oklahoma State University Brittney Le - Southwestern Oklahoma State University

05.03.53 ~ Telomere Length Predicts Life History Trade-Offs in Wild Female Tree Swallows (Tachycineta bicolor)

Tiana Sanders - Oklahoma State University

05.03.54 ~ Microenvironment Modulates the Phenotype of Ker-CT-Ras; Role of the

Alpha-6 Integrin Response Zoe Andrews - University of Central Oklahoma Mel Vaughan - University of Central Oklahoma

05.03.55 ~ Silverleaf: a New Mycobacteriophage Isolated and Sequenced from Oklahoma Soil

Raistland Valenzuela - University of Central Oklahoma Hari Kotturi - University of Central Oklahoma

05.03.56 ~ Miaurora: New Microbacteriophage Isolated from Oklahoma Soil

Micah Byrne - University of Central Oklahoma Zachary Stone - University of Central Oklahoma Hari Kotturi - University of Central Oklahoma

05.03.57 ~ Antimicrobial Properties of Novel Silver(!) Cyanoximates

Erin Gallaway- Oklahoma State University Marianna Patrauchan - Oklahoma State University Treyon Grant - Oklahoma State University Snow Popis - Missouri State Nikolay Gerasimchuck - Missouri State

05.03.58 ~ Glycated Chitosan Inhibits Fibroblasts-mediated Compaction and Contraction of Collagen Lattices

Tu Doan - University of Central Oklahoma Mel Vaughan - University of Central Oklahoma Gang Xu - University of Central Oklahoma Zheng Yie Yap - University of Central Oklahoma

05.03.59 ~ Using Microwaves for Organic Synthesis of Esters in Undergraduate Organic labs

Tolulade 0. Adenuga Adenuga - Cameron University Elizabeth Nalley- Cameron University

05.03.60 Antimicrobial properties of cinnamon oil nanoemulsion on isolates of Acinetobacter baumannii.

Taylor Jones - University of Central Oklahoma

05.03.61 DNA Extraction from Dried Testudine

Mariah Ewy- East Central University

05.03.62 ~ Analysis of the C. burnetii Type 4B Secretion System Homolog DotA During Infection and In Vitro Growth

Alicia Aguilar - Oklahoma State University

05.03.63 ~ Oka'Yanahli Nature Preserve Baseline Mammal Survey

Wendy Monterroso - University of Central Oklahoma Victoria Jackson - University of Central Oklahoma