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| **CANNABINOID SYSTEM: CANNABINOID RECEPTOR (CBR) GENES, GENE STRUCTURES, REGULATION AND VARIATION:** *Larissa Nkouami Pamen*[1], Dr. Claire Leonard[1], Dr. Omaira Barba[1], Dr. George Uh[2;] and Dr. Emmanuel Onaivi[1]; [1]Biology Department, William Paterson University of New Jersey & [2]Molecular Neurobiology Branch, NIDA-NIH |
| **CD38 LEVELS IN THE HYPOTHALAMUS AND CORTEX OF BTBR AND C57 BL/6J MICE:** *Heidi Rogers* and Dr. Eileen Gardner; Biology Department, William Paterson University of New Jersey |
| **PIWI-LIKE 1 PROTEIN IS REQUIRED FOR PROPER MIGRATION OF EARLY BORN NEOCORTICAL NEURONS:** *Marina Dutra-Clarke* and Dr. Mladen-Roko Rasin; Department of Neuroscience & Cell Biology, UMDNJ |
| **CHARACTERIZATION OF A MUTATION IN A REGULATOR OF NEUROTRANSMISSION-NEURNAL CALCIUM SENSOR-1 IS IMPLICATED IN AUTISM:** *Michael Gonzalez, Ama Berko,* David Fleischman, Dongjin Oh, Serdar Sadir and Dr. Jamie Weiss; Department of Biology, William Paterson University of New Jersey |
| **INSULIN DISREGULATION AND NEURODEGENERATION: A POSSIBLE ROLE FOR CDK5:** *Daniel Emerson Khost*, Renita Cotton and Dr. Ann Aguanno; Department of Natural Sciences, Marymount Manhattan College |
| **INVESTIGATING THE ROLE OF VASP IN HOST CELL RESPONSE TO *CRYPTOSPORIDUM PARVUM* INFECTION:** *Nazary Nebeluk** and Dr. David Zuzga**; *Department of Chemistry and Physical Sciences, and **Department of Biology and Life Sciences, Pace University |
| **SWAMP PINK GENETICS: EVALUATION OF POPULATION STRUCTURE USING AFLP: Lynnicia Massenburg and Dr. Ari Novy; Department of Plant Biology and Pathology, Rutgers University** |
| **SCHOHARIE FORMATION (LOWER DEVONIAN) GLACIAL ERRATICS FROM THE PREAKNESS FORMATOIN (LOWER JURASSIC) OF HIGH MOUNTAIN, PASSAIC COUNTY, NEW JERSEY: Andrew O'Brien[3], Amber Koney1, Alex Bartholomew, John Cutuli2 and Dr. Martin Becker1; [3]Department of Environmental Science and 1Department of Biology, William Paterson University of New Jersey and 2Geology Department, SUNY** |
| **EXPLORING THE BIODIVERSITY MYSTERY OF SOUTH AMERICA: Elizabeth DeSmet and Dr. Eric Karlin; Department of Environmental Science; Ramapo College of New Jersey** |
| **HYBRIDIZATION AND SPECIES DIVERSITY IN SPHAGNUM SUBGENUS SPHAGNUM: Elizabeth DeSmet and Dr. Eric Karlin; Department of Environmental Science; Ramapo College of New Jersey** |
| **NEW JERSEY AMMOPHILA BREVILIGULATA STRAINS SHOW SIMILAR PHYSIOLOGY TRAITS TO THE 'CAPE' VARIETY: Nelson Araujo, Nicholas Margo and Dr. Michael Peek; Department of Biology, William Paterson University of New Jersey** |
| **THE EFFECT OF WASTE WATER EFFLUENT ON ALGAL PERIPHYTON BIOMASS AND SPECIES DIVERSITY: Jessica Dingman and Dr. James Salierno, Department of Biology, Fairleigh Dickinson University** |
| **PATCHOGUE RIVERSYSTEM EUTROPHICATION AND REMEDIATION: Amanda Gardner, Jon Hoff, Janelle Sarbak-Boesch, and Dr. Mohammad Rana;** |

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| **Biology Department. St. Joseph's College** |
| **SELENASTRUM CAPRICORNUTUM GROWTH IN RIVER WATER CONTAINING WASTE WATER EFFLUENT: Martha Mahady and Dr. James Salierno; Department of Biological and Allied Health Sciences, Fairleigh Dickinson University** |
| **GENOTYPIC DIVERSITY IN NATIVE NEW JERSEY POPULATIONS OF AMMOPHILA BREVILIGULATA (AMERICAN BEACHGRASS): Joanna Wresilo, Dr. Michael Peek and Dr. David Slaymaker; Department of Biology, William Paterson University of New Jersey** |
| **CHARACTERIZATION OF MAGNETICALLY ALIGNED ORGANIC SEMICONDUCTORS: Bhavika Patel and Dr. Gary Gerardi, Department of Chemistry, William Paterson University of New Jersey** |
| **FUNGAL BIOMASS STUDIES: DETERMINING ERGOSTEROL CONCENTRATION IN SOIL SAMPLES FROM NATIVE AND INVASIVE TREE SPECIES BY USE OF HPLC WITH UV SPECTROSCOPY: Alexa Bogstahl and Dr. Janet Kaydos Berthel; Chemistry Department, College of St. Elizabeth** |
| **INTERACTIONS OF PHOSPHATE WITH DIFFERENT METALS MONITORED BY VIBRATIONAL SPECTROSCOPY: Amanda Falade, Arianna Porrata-Doria, and Dr. Elmer-Rico Mojica, Department of Chemistry and Physical Sciences, Pace University** |
| **GENERATION OF HETROGENEOUS CATALYSTS USING COPOLYMERIZATION/GELIFICATION OF SILOXANES WITH TRANSITION METAL SALTS: Joseph Flores, Swetha Matam and Dr. Bhanu P.S. Chauhan, Department of Chemistry, William Paterson University of New Jersey** |
| **HYDROTALCITY AND PYROAURITE – SYHNTHESIS AND RHEOOLGY: Roman Gavenko, Joseph Petrosi and Dr. Mihaela Jitianu, Department of Chemistry, William Paterson University of New Jersey** |
| **ONE POT SYNTHESIS OF SILICA-SILVER CONJUGATES AND THEIR CONVERSION TO SILICA COATED SILVER NANO-OBJECTS: Kate (Kyujin) Lee, Tejal Surti, Swetha Matam and Dr. Bhanu P.S. Chauhan; Department of Chemistry, William Paterson University of New Jersey** |
| **RHEOLOGICAL ASPECTS OF ORGANIC MODIFIED SILICA GELS: Michael Stamper1, Doreen Aboagye2, Dr. Mihaela Jitianu1 and Dr. Andrei Jitianu2, 1Department of Chemistry, William Paterson University of New Jersey and 2Department of Chemistry, Lehman College** |
| **SACCHAROMYCES CEREVISIAE SEPTIN STABILITY AT NON-PERMISSIVE TEMPERATURE AND ITS EFFECT ON NUCLEAR FISSION: Khrystyna Romanyshyn, Alexander Tess and Dr. Patricia Melloy, Department of Biological and Allied Health Sciences, Fairleigh Dickinson University** |
| **STUDYING THE EFFECTS OF CDC23 MUTANTS ON THE LOCALIZATOIN OF ANAPHASE-PROMOTING COMPLEX ACTIVATOR CDC20 IN SACCHARYOMYCES CEREVISIAE: Emma Quigley, Matthew Garbin and Dr. Patricia Melloy, Department of Biological and Allied Health Sciences, Fairleigh Dickinson University** |
| **E1F2AK4 REGULATES TIMES m RNA TRANSLATION EVENTS IN DEEP NEOCORTICAL LAYERS: Kristina Sakers and Dr. Mladen-Roko Rasin;** |

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| **Department of Neuroscience and Cell Biology, Rutgers University, UMDNJ** |
| **POSTNATAL FMRP EXPRESSION AND DEVELOPMENT OF NEOCORTICAL PROJECTION NEURONS ARE INTERRUPTED AT MID-GESTATION BY TRANSIENT INTRAURINE ISCHEMIA: Sagara Wijeratne1, 2, Sania Sandhu1, 2, and Dr. Matthew Kraushar, and Dr. Mladen-Roko Rasin; Department of Neuroscience and Cell Biology, 1Rutgers University and 2UMDNJ** |
| **CAPSAICIN INDUCED OPTIC NERVE DAMAGE IN ZEBRAFISH: A MODEL OF TRANS-NEURONAL DEGENERATION: Maximillian Lucci, Michael Broe, Christopher Corbo, Michael Gutkin and Dr. Zoltan Fulop; Biological Sciencesz, Wagner College** |
| **E1F4E PHOSPHORYLATION AND PROTEIN EXPRESSION PROMOTED BY CURCUMIN AFTER SPINAL CORD INJURY: Katarina Yaros1*, Aditi Dubey*, Kevin Thompson, Victoria DiBona and Dr. Mladen-Roko Rasin; Department of Neuroscience and Cell Biology, 1Rutgers University and UMDNJ (*equal Contribution)** |
| **OXIDATIVE STRESS AND ANTIOXIDANT DEFENSES DURING TAIL REGRESSION IN TADPOLES, XENOPUS LAEVIS: William Manzo, Paige Appleton, Dr. Jaishri Menon and Dr. Eileen Gardner; Department of Biology, William Paterson University of New Jersey** |
| **TAIL REGENERATION IN XENOPUS LEVIS: A MODEL FOR UNDERSTANDING ACTION OF MATRIX METALLOPROTEINASE (MMPs) AND TISSUE INHIBITORS OF MMPs (TIMPs): Obinna Onyekwere and Dr. Jaishri Menon; Department of Biology, William Paterson University of New Jersey** |
| **LEVERAGING HOMOLOGY AND SEQUENCE INFORMATION IN THE PREDICTION OF PROTEIN FLEXIBILITY: Ashley Miranda, Jennifer Grullon, Mamoun Hamdeh, Bhavika Patel and Dr.<br>David A. Snyder; Department of Chemistry, William Paterson University of New Jersey** |
| **DISCREPANCY IN THIONIN-BASED ASSAY OF CHLOROPEROXIDASE ACTIVITY: Ashley Pirovano and<br>Dr. Alessandra Leri: Department of Natural Sciences, Marymount Manhattan College** |
| **THE AFFECTS OF IMIDACLOPRID ON HONEY BEE COLONY HEALTH AND PRODUCTIVITY:Ashley Miranda and Dr. David Gilley;<br>Department of Biology, William Paterson University of New Jersey** |
| **CHARACTERIZING C.ELEGANS BEHAVIORAL RESPONSES TO PATHOGENIC BACTERIA: Mona Gardner, Thomas Graciano, Dr. June Middleton and Dr. Edith Myers; Biologcal and Allied Health Department, Fairleigh Dickinson University** |
| **THE FRUIT FLY: A TRACTABLE SYSTEM TO STUDY TOLERANCE TO LOW TEMPERATURES: David Luor1, Kosha Parikh1, Daniel Shain1, 2, and Dr. Nir Yakoby1, 2; 1Biology Department, 2Center for Computational and Integrative Biology, Rutgers University** |
| **SOCIAL BEHAVIOR IN BTBR T+tf/J AND C57BL/6J MICE AND THE ROLE OF VASOPRESSIN IN MEDIATING THIS RESPONSE: Tomiko Rendon and Dr. Robert Benno; Department of Biology, William Paterson University of New Jersey** |

**CYCLIC SILAZANES AS REDUCING AGENT AND HOSTS FOR SILVER NANOPARTICLES: Alyx Weaver, Swetha Matam and Dr. Bhanu P.S. Chauhan; Department of Chemistry, William Paterson University of New Jersey**

**BINDING OF PROTEINS WITH DIFFERENT NANOMATERIALS: David Collins, Claudia Sobolewski, and Dr. Elmer-Rico Mojica; Department of Chemistry and Physical Sciences, Pace University**

**A NEW APPROACH TO GOLD NANOPARTICLES: Catherine Abaid, Swetha Matam and Dr. Bhanu P.S. Chauhan; Department of Chemistry, William Paterson University of New Jersey**

**DELAMINATION – CO STACING: A METHOD FOR OBTAINING ANIONIC CLAYS NANOCOMPOSITES: Darren Gunness, Amanda Muraca, and Dr. Mihaela Jitiano; Department of Chemistry, William Paterson University of New Jersey**

**AMINE AND SILICA STABILIZED SILVER NANOPARTICLES: Aimen Khawaja, Swetha Matam and Dr. Bhanu P.S. Chauhan, Department of Chemistry, William Paterson University of New Jersey**

**SCREENING OF VARIOUS NANOMATERIALS FOR THE REMOVAL OF LEAD IONS IN AQUEOUS SAMPLES:** *Arianna Porrata-Doria*, Amanda Falade and Dr. Elmer-Rico Mojica; Department of Chemistry and Physical Sciences, Pace University

**DEVELOPOMENT OF BETULIN BASED SMALL MOLECULES AS POTENTIAL ANTI-CANCER AGENTS:** *Kathleen Twomey, Michael Corsello* and Dr. Subash Jonnalagadda; Department of Chemistry and Biochemistry, Rowan University

**A QUANTITATIVE ANALYSIS OF BIOACTIVE COMPONENTS IN LICORICE ROOT EXTRACTS:** *Christopher Dirusso* and Dr. Suparna Bhalla; Division of Natural Science, Mount St. Mary College

**EXPERIMENTAL VALIDATION OF PREDICTED LIGAND SPECIFICITY DETERMINING RESIDUES IN THE DEIHYDROFOLATE REDUCTASE FAMILY:** *Michael Little*
and Dr. Nina M. Goodey; Chemistry Department, Montclair State University

**SPECTROSCOPIC PROPERTIES OF TETRACYCLINES:** *Mariya Rozov* and Dr. Elmer-Rico Mojica; Department of Chemistry and Physical Sciences, Pace University

**DETERMINING THE LOCALIZATION OF TIMEM120B:** *Christina Sedberry* and Dr. Joseph Glavy; Chemistry, Chemical Biology and Biomedical Engineering, Stevens Institute of Technology

**SYNTHESIS OF LIPOPHILIC a-ACETOXYAMIDES VIA MULTICOMPONENT COUPLING REACTIONS:** *Christopher Sleet, Bryan Penczuk* and Dr. Subash Jonnalagadda; Department of Chemistry and Biochemistry, Rowan University

**HIGH-DEFINITION NMR STRUCTURE OF PED/PEA-15 DEATH EFFECTOR DOMAIN ALLOWS ASSESSMENT OF KEY SIDE CHAIN INTERACTIONS ON THE PROTEIN SURFACE:** *Edward Twomey*[1] and Dr. Yufeng Wei[1, 2]; Department of Chemistry and Biochemistry, [1]Seton Hall University and [2]Rockefeller University