

2016 SYMPOSIUM ABSTRACT TITLES

BEHAVIOR

Poster #	Title, Author(s), Affiliation(s)
B 1	COMPARISON OF TURN ALTERNATION FREQUENCIES IN NYMPH AND ADULT TURKESTAN COCKROACHES(<i>BLATT LATERALIS</i>); <u>Andrew K. Aboagye</u> and Dr. Scott Kight; Department of Biology; Montclair State University, Montclair, NJ
B 2	THE EFFECT OF TRICLOSAN ON <i>CAENORHABDITIS ELEGANS</i> REPRODUCTION LOCOMOTION; <u>William Hoffman</u> , Amanda Favetta, and Dr. Edith Myers; Department of Biological and Allied Health Sciences, Fairleigh Dickinson University, Madison, NJ
B 3	THE BIOLOGY OF DESIRE: DOPAMINE MEDIATED SEEKING BEHAVIOR IN CHERRY SHRIMP (<i>NEOCARIDINA DAVIDI</i>); <u>Molly Mancuso</u> and Dr. Josh Stout, School of Natural Sciences, Fairleigh Dickinson University, Teaneck, NJ
B 4	TRAUMATIC BRAIN INJURY: IN VIVO NEUROPROTECTIVE ROLE OF M-TYPE K ⁺ CHANNELS3; <u>Lauren Poletti</u> , <u>Catherine Coleman</u> , and Dr. Sonya M. Bierbower, Department of Biology, William Paterson University, Wayne, NJ
B 5	COMPARISON OF CAPTIVE CAT AND DOMESTIC CAT (<i>FELIS CATUS</i>) BEHAVIOR USING A TAXONOMIC APPROACH; <u>Griffin Talik</u> and Dr. Brian Olechnowski; Department of Biological and Allied Health Sciences, Fairleigh Dickinson University, Madison, NJ
B 6	DO GIANT WATERBUGS RESPOND TO PREDATOR CUES? <u>Samantha Tedesco</u> , Johnny Hoant, and Dr. Scott Kight; Department of Biology, Montclair State University, Montclair, NJ

CELL & MOLECULAR BIOLOGY I

CM 1	LONG-TERM EFFECTS OF HIGH LIGHT INTENSITIES ON THE FLORIDA RED-TIDE DINOFLAGELLATE, <i>KARENIA BREVIS</i> ; <u>Unnati Chauhan</u> and Dr. Emily Monroe; Department of Biology, William Paterson University, Wayne, NJ
CM 2	BRAIN CB2 CANNABINOID RECEPTOR EXPRESS DURING NEURODEVELOPMENT AND IN TRANSGENIC MOR, DAT, DAT-CI AND SERT KNOCKOUT (KO) MICE; <u>Monika Chung</u> , Eugene Dennis, Susan Sgro, Dr. Claire Leonard, Norman Schanz and Dr. Emmanuel Onaivi; Department of Biology, William Paterson University, Wayne, NJ
CM 3	MOLECULAR CELL SIGNALING RESEARCH; <u>Quiana Jones</u> and Dr. Drew Cressman; Department of Biology, Sarah Lawrence College, Bronxville, NY

CM 4	THE EFFECTS OF AGING AND PROGERIA ON MICRONUCLEI FORMATION AND SUBSEQUENT DNA DAMAGE; <u>Kathleen Nevola</u> , <u>Kristen Allocco</u> , and Dr. Joseph Glavy; Department of Biomedical Engineering, Chemistry and Biological Sciences, Stevens Institute of Technology, Hoboken, NJ
CM 5	MICRONA EXPRESSION FOLLOWING LIPOPOLYSACCHARIDE-INDUCED INFLAMMATION OF RAT TESTIS; <u>Mitchell I. Parker</u> and Dr. Michael A. Palladino; Department of Biology, Monmouth University, Long Branch, NJ
CM 6	OXIDATIVE STRESS SUSCEPTIBLE GUANINE NUCLEOTIDE EXCHANGE FACTOR 1 (OSG-1) MEDIATED THERMOTOLERANCE IN THE HEAT SHOCK RESPONSE OF <i>C. ELEGANS</i> ; <u>Rahul P. Patel</u> , <u>Nicholas Scurato</u> , And Dr. Federico Sesti; Department of Neuroscience and Cell Biology, Rutgers University, Piscataway, NJ
CM 7	GUT MICROBIOTA STABILIZATION CAN HELP REDUCE HEALTH RISKS; Mayte Rodriguez, Sharon Motatey, and Dr. Alice Benzecry; School of Natural Sciences, Fairleigh Dickinson University, Teaneck, NJ

ECOLOGY, EVOLUTION & ENVIRONMENTAL SCIENCE I

E 1	DEGLACIAL CLIMATE VARIABILITY IN NORTHERN NEW JERSEY INFERRED FROM A LAKE SEDIMENT CORE; <u>Seth Getch</u> ¹ , <u>Kyle Hansen</u> ¹ , Dr. Michael Griffiths ¹ , Dr. Stephanie Brachfield ² , Michael DaSilva ¹ , Tim Greendyk, Dr. Michael Sebetich ¹ and Dr. Richard Pardi ¹ ; ¹ Department of Environmental Science, William Paterson University, Wayne, NJ; ² Department of Earth & Environmental Science, Montclair State University, Montclair, NJ
E 2	STRENGTHENING THE CLIMATE SIGNAL IN TREE-RING RECORDS USING BLUE INTENSITY METHODS: GULF OF ALASKA; <u>Kyle Hansen</u> , Greg Wiles, Rose Oelkers and Dr. Nicole Davi; Department of Environmental Science, William Paterson University, Wayne, NJ
E 3	COMBINING AUTOCLAVING BEFORE EXTRACTION AND VERY HIGH SENSITIVITY PCR TO DETECT THE CAUSATIVE AGENT IN WHITE-NOSE SYNDROME IN ENVIRONMENTAL SAMPLES WITHOUT RISK OF SPREAD; <u>Kadeem O'Gilvie</u> , <u>Derrick Dorph</u> , and Dr. Kendall Martin, Department of Biology, William Paterson University, Wayne, NJ

E 4	<p>TRILOBITES FROM THE RICKARD HILL FACIES OF THE SAUGERTIES MEMBER OF THE SCHOHARIE FORMATION (LOWER DEVONIAN), HELDERBERG MOUNTAINES, NEW YORK: A CASE STUDY FROM GLACIAL ERRATICS; <u>Odoardo Pacella</u>², Alex Bartholomew², Harry Maisch IV³⁻⁴, John Chamberlain³⁻⁴, and Dr. Martin Becker¹; (1) Department of Environmental Science, William Paterson University, Wayne, NJ (2) Geology Department, SUNY, New Paltz, NY, (3) Doctoral Program in Earth & Environmental Sciences, City University of New York Graduate Center, New York, NY (4) Department of Earth & Environmental Sciences, Brooklyn College, Brooklyn, NY</p>
E 5	<p>REGIONAL VARIATION IN NUTRIENT COMPOSITION OF GRASS HAYS; <u>Monica Pesek</u>¹, Valerie Massi², Kenith Conover³, Paul Sirois², dr. Istvan Pelczer³, and Dr. Sarah Ralston¹; (1) Department of Animal Sciences, Rutgers University, New Brunswick, NJ; (2) Dairy One Forage Lab, Ithaca, NY; (3) Department of Chemistry, Princeton University, Princeton, NJ</p>
E 6	<p>FORAGING AND COMPETITIVE INTERACTIONS OF PASSERINE BIRDS AT FORESTED HABITAT EDGES; <u>Alex Smith</u>, and Dr. Brian Olechnowski, Department of Biological and Allied Health Services, Fairleigh Dickinson University, Madison, NJ</p>
E 7	<p>GHE PRODUCTION OF BYSSAL THREADS BY <i>GEUKENSIA DEMISSA</i> UNDER FOOD LIMITATIONS; <u>Na’Vonna Turner</u>, Navasha Angelucci, Christian Bojofrquez, Kaylee Saltos, and Dr. Allison Fitzgerald; Department of Biology, New Jersey City University, Jersey City, NJ</p>
E 8	<p>DNA BARCODE PHYLOGENY & DIVERSIFICATION OF CADDISFLIES IN WESTERN NORTH AMERICA; <u>Dana Weaver</u>, and Dr. Joseph Spagna; Department of Biology, William Paterson University, Wayne, NJ</p>

PHYSIOLOGY & TOXICOLOGY

PT 1	<p>ACCELERATION OF FERMENTATION IN BREWERS YEAST THROUGH MUTAGENESIS WITH FORWARD SELECTION; <u>Safraz Bacchus</u>, Laura Harwell, and Dr. Ted Brummel, Biology Department, Long Island University, Valley Stream, NY</p>
PT 2	<p>THIEVES’ AND PULLING OILS HAVE POWERFUL ANTIMICROBIAL EFFECTS ON <i>TRICHOPHYTON RUBRUM</i>, <i>CANDIDA ALBICANS</i> AND <i>STAPHYLOCOCCUS AUREUS</i>; <u>Jessica Binkiewicz</u>, Pamela Marte Perez, and Dr. Agnes Berki; Department of Natural and Physical Sciences, Caldwell University, Caldwell, NJ</p>

PT 3	VINEGAR AND CITRIC ACID ARE POTENT ANTIBACTERIAL AGENTS; <u>Christina Blonski</u> , <u>Eva Suchar</u> , Janice Jacob, and Dr. Agnes Berki, Department of Natural and Physical Sciences, Caldwell University, Caldwell, NJ
PT 4	ISOLATION AND CHARACTERIZATION OF NADPH-CYTOCHROME P450 REDUCGTASE IN <i>Aedes Albopictus</i> , THE ASIAN TIGER MOSQUITO; <u>Stephen Maksymiv</u> , Matthew Leedom, and Dr. Lena Brattsten; Department of Entomology, Rutgers University, New Brunswick, NJ
PT 5	EFFECTS OF COPAMINE AND HALOPERIDOL ON ACTION POTENTIALS; <u>Lizzy Marin</u> , Haitham Orfali, Chloe Tanis, Tiana Lozano, and Dr. Marion McClary; School of Natural Sciences, Fairleigh Dickinson University, Teaneck, NJ
PT 6	INHIBITION OF BACTERIAL BIOFILM FORMATION USING CELL-FREE EXTRACTS OF A WIDE RANGE OF GRAM POSITIVE AND GRAM NEGATIVE BACTERIA; <u>Shrushti Patel</u> , <u>Vaidehi Kathiria</u> , Noemi Cruz and Dr. Meriem Bendaoud; Department of Biology, New Jersey City University, Jersey City, NJ
P T 7	TRANSGENERATIONAL EFFECTS OF BISPHENOL A AND BISPHENOL S ON ASPECTS OF REPRODUCTIVE SYSTEM FUNCTIONING IN CAENORHABDITIS ELEGANS; Suyapa Penalva-Lopez, Sophia Touri, and Dr. L. Twersky, Dr. J. Callahan and Dr. Maria Agapito; Department of Biology, Saint Peter's University, Jersey City, NJ
PT 8	CROSS TALK BETWEEN CELLULAR ORGANELLES DURING TAIL REGRESSION IN TADPOLES XENOPUS LEAVIS; Sirai Ramirez, Adonis Rivie, and Dr. Jaishri Menon; Department of Biology, William Paterson University, Wayne, NJ
PT 9	CHANGES IN RESTING AND DIGESTIVE METABOLISM ASSOCIATED WITH AESTIVATION IN THE CHACOAN HORNED FROM (CERATOPHYRYS CRANWELLI); Daniel Ruvolo, and Dr. Joseph Agugliaro; Department of Biological & Allied Health Services, Fairleigh Dickinson University, Madison, NJ
PT 10	THE COLOCALIZATION OF CAMKII α WITH GRIP AND INHIBITORY SYNAPSES USING NMDA AND GLUTAMATE AS A STIMULUS TO MIMIC BRAIN ACTIVITY; Edgar Tello, Kehinde Cole, and Dr. Reed Carroll; Biology Department New Jersey City University, Jersey City, NJ
PT 11	QUANTITATION OF ISLET OF LANGERHANS CELLS TRANSPLANTED IN STZ-INDUCED DIABETIC MICE THAT REVERSEDHYPERGLYCEMIA: A PROTEIN QUANTIFICATION ANALYSIS USING THE WESTERN BLOT; Erica Wu, and Dr. J.W. Lee; Department of Biology, William Paterson University, Wayne, NJ

BIOCHEMISTRY

BC 1	REACTION OF SUCCINIC ACID WITH SUPEROXIDE DISMUTASE; <u>Richard Boakey-Marfo</u> , and Dr. Alfredo Castro; Department of Chemistry, Felician University, Lodi, NJ
BC 2	STUDIES IN THE FORMATION OF THE SIRNA-DOX COMPLEX; <u>Heidi Elashal</u> , <u>Mateusz Kowalczyk</u> , <u>Victoria Blakey-Padilla</u> and Dr. David Sabatino; Department of Chemistry and Biochemistry, Seton Hall University, South Orange, NJ
BC 3	HIGH PRESSURE USED TO ENHANCE SERUM AMINE OXIDASE FROM <i>E. L. COLI</i> ; <u>Eugene Kang</u> , <u>Mikel Romero</u> , and Dr. Mihaela Leonida; School of Natural Science, Fairleigh Dickinson University, Teaneck, NJ
BC 4	OVER-EXPRESSION AND PURIFICATION OF <i>E. COLI</i> RECOMBINATION PROTEIN RECR AND ITS INTERLOCKING MUTANTS USING VARIOUS PROTEIN CHROMATOGRAPHIC METHODS; <u>Soo Jin Koo</u> , <u>Christine Jaipersaud</u> , Jannifer Trabucco, and Dr. Seung-Sup Kim; Biochemistry Program, Ramapo College of New Jersey, Mahwah, NJ
BC 5	THE EFFECTS OF MUTATING THE R283 SITE OF CIITA; <u>Hagerah Malik</u> and Dr. Drew Cressman, Biology Department, Sarah Lawrence College, Bronxville, NY
BC 6	BIOCHEMICAL SYMBIOSIS IN THE ORAL CAVITY: THE ROLE OF <i>P. BUCCAE</i> PECTINOLYTIC ENZYMES IN SUSTAINING <i>T. PARVUM</i> ROWTH <i>IN VITRO</i> ; <u>Parandis Nejati</u> , Marie Kwok, Ethan Santore, Veena Raja, Fadia Bazina, and Dr. Stephen Walker; Department of Oral Biology and Pathology, Stony Brook University, Stony Brook, NY
BC 7	TANNIC ACID AS MODULATOR FOR THE RELEASE KINETICS OF NISIN FROM CHITOSAN NANOPARTICLES; Isabelle Nemeth, Bernieve Dabady, Dr. Mihaela Leonida and Dr. Alice Benzecry; School of Natural Science, Fairleigh Dickinson University, Teaneck, NJ
BC 8	HEURISTIC OF PREDICTING PROTEIN FLEXIBILITY ALONG SPECIFIC MODES; Sarah Ojinnaka, and Dr. David Snyder; Department of Chemistry, William Paterson University, Wayne, NJ

BC 9	MODULATION OF PEA-15 BINDING SPECIFICITY BY PHOSPHORYLATION AND POSSIBLE ROLES OF CHARGE-TIRAD RESIDUES IN MEADIATING CONFORMATIONAL CHANGES; Chanel Wright, Victor Leon, and Dr. Yufeng Wei; Department of Chemistry, New Jersey City University, Jersey City, NJ
-------------	---

NANOCHEMISTRY

NC 1	THE ROLE OF POLYBUTADIENE IN THE SYNTHESIS OF NOVEL HYBRID METAL CATALYSTS; <u>Daniela Artiga</u> , <u>Erika Castelar</u> , Aarti Patel, Dr. Sonia Matthews, and Dr. Bhanu P.S. Chauhan; Department of Chemistry, William Paterson University, Wayne, NJ
NC 2	DYE MOLECULE-ANCHORED PLATINUM NANOCATALYSTS; <u>Peter Catsoulis</u> ¹ , Ian Weiss ¹ , Bowen Yang ² , Dr. Elena Galoppini ¹ , Dr. Alexander Agrios ² ; Chemistry Department, ¹ Rutgers University, Newark, NJ; ² University of Connecticut, Storrs, CT
NC 3	INVESTIGATION OF NOVEL METAL RHODANINE NANOSTRUCTURES; <u>Tao Hong</u> ¹ , Aarti Patel ² , Dr. Moni Chauhan ¹ and Dr. Bhanu P.S. Chauhan ² ; ¹ Department of Chemistry, Queensborough Community College - CUNY, Bayside, NY; ² Department of Chemistry, William Paterson University, Wayne, NJ
NC 4	TOXICITYN OF ZnCl₂ NANOPARTICLES ON BACTERIA; <u>Milfred Jimenez</u> , Sara Rodriguez, Jackie Masteo, and Dr. Juyoung Ha; Department of Chemistry, Kean University, Union, NJ
NC 5	DIFFERENTIATION OF MESENCHYMAL STEM CELLS INTO FUNCTIONAL CARDIOMYOCYTES BY NANOPARTICLE-BASED TRANSCRIPTION FACTORS; <u>Busub Lee (Marcus)</u> , and Dr. Ki Bum Lee; Department of Chemistry and Chemistry Bioology; Rutgers University, New Brunswick, NJ
NC 6	ORGANIC HOST-GUES COMPLEXES FOR FUNCTIONALIZATION OF NANOSTRUCTURED SURFACES; <u>Penafrancia Malcampo</u> , Xiuyuan Ma, Hao Tang, and Dr. Elena Galoppini, Rutgers Univesity, Newark, NJ
NC 7	LIGHT INDUCED TOXICITY OF SILVER NANOPARTICLES PRODUCED BY LASER ABLATION; <u>Matthew Ratti</u> , and Dr. Eric Klein; Department of Biology & Physics, Rutgers University, Camden, NJ
NC 8	SINGLE-WALLED CARBON NANOTUBE-RUTHENIUM NANOPARTICLES COMPOSITES FOR AZO DYE DERADATION; <u>Nelson Tobar</u> , Nicholas <u>Carrero</u> , and Dr. Tirandai Hemraj-Benny; Department of Chemistry, Queensborough Community College - CUNY, Bayside, NY

ORGANIC CHEMISTRY

OC 1	METAL FREE TER-PYRIDINE CATALYZED ALLYLATION OF ALDEHYDES AND KETONES; <u>Janine Almalel</u>, <u>Chelsea Sweet</u>, and Dr. Parminder Kaur, Department of Chemistry, William Paterson University, Wayne, NJ
OC 2	TRANSITION METAL-CATALYZED FUNCTIONALIZATION OF ALKYNES; <u>Sarah Ciccarelli</u>, and Dr. Yalan Xing; Department of Chemistry, William Paterson University, Wayne, NJ
OC 3	THE ACID-CATALYZED HETEROGENEOUS REACTION OF LIMONENE ON MINERAL DUST SURFACES; <u>Zoe Coates Fuentes</u>, <u>Madeline Lederer</u>, and Dr. Ryan Hinrichs; Chemistry Department, Drew University, Madison , NJ
OC 4	SILICA SCAFFOLDED NANOGOLD: A NEW CATALYSTS FOR HENRY REACTION; <u>Vicklyn Datilus</u>, <u>Andrew Patrizio</u>, Aarti Patel, Kelly Moran, Qiaxian Johnson, Dr. Parminder Kaur and Dr. Bhanu P.S. Chauhan; Department of Chemistry, William Paterson University, Wayne, NJ
OC 5	A NOVEL SYNTHETIC METHOD FOR THE PREPARATION OF [2H]-INDAZOLES; <u>Melissa Orlando</u>, <u>Jean Etersque</u>,_ and Dr. Edward Salaski; Department of Chemistry and Pharmaceutical Science, Fairleigh Dickinson University, Madison, NJ
OC 6	OLEFIN METATHESIS IN THE UNDERGRADUATE ORGANIC LABORATORY; <u>Amran Hussain</u>, Thanuka Udumulla Arachchilage, Daniel Richiuso, and Dr. Sarah Carberry; Department of Chemistry, Ramapo College of New Jersey, Mahwah, NJ
OC 7	ENANTIOSELECTIVE SYNTHESIS OF ACTINOPOLYMORPHOL B AND ITS ANALOGS; Claudia Kim, Jolanta Jedryczka, and Dr. Yalan Xing; Department of Chemistry, William Paterson University, Wayne, NJ
OC 8	METHOLOGY TESTING ON COMPLEX SUBSTRATE, ETHISTERONE; John Lee, Carlos Chung, and Dr. Yalan Xing; Department of Chemistry, William Paterson University, Wayne, NJ
OC 9	SYNTHESIS OF A FLOUORENYL QUINOLONE MOLECULAR SWITCH; Kamran Namjouyan, and Dr. Kenneth Yamaguchi, Chemistry Department, New Jersey City University, Jersey City, NJ

CELL & MOLECULAR BIOLOGY II

CM 7	EFFECTS OF PHOSPHATE LIMITATION ON GROWTH RAGTE, BREVETOXIN PRODUCTION, AND GENE EXPRESSION IN <i>KARENA BREVIS</i> , THE FLORIDA RED TIDE DINOFLAGELLATE; <u>Stephanie Costa</u> , and Dr. Emily Monroe; Department of Biology, William Paterson University, Wayne, NJ
CM 8	GLP-1 NEURAL CIRCUIT IN PVN REGULATES FEEDING BEHAVIOR; <u>Michel Mikhail</u> , and Dr. Zhiping Pang; Department of Neuroscience and Cell Biology, Rutgers University, New Brunswick, NJ
CM 9	BACTERIAL GROWTH STUDIES OF BUT MICROBES INCLUDING LACTOBACILLUS RHAMNOSUS GG AND ESCHERICHIA COLI HS USING UV-VIS SPECTROPHOTOMETRY AND QUANTITATIVE PCR (QPCR); <u>Devashri Parikh</u> , <u>Pritha Aggarwal</u> , Katerina Djambazova, and Dr., Seung-Sup Kim; Biochemistry Program, Ramapo College of New Jersey, Mahwah, NJ
CM 10	DESIGN OF A GENE TRANSFER VECTOR TO DELIVER A STABILIZED ANTI-EGFR RNA APTAMER TO THE GLIOBLASTOMA MICROENVIRONMENT; <u>Suchin Parikh</u> , and Dr. Martin Hicks; Department of Biology, Monmouth University, West Long Branch, NJ
CM 11	ANALYSIS OF OKP1 GFP LOCALIZATION IN A TEMPERATURE SENSITIVE YEAST MUTANT; <u>Nicole Umberto</u> , <u>Mouna Wehbeh</u> , and Dr. Patricia Melloy, Department of Biological and Allied Health Sciences, Fairleigh Dickinson University, Madison, NJ
CM 12	CONSTRUCTION OF NUCLEAR LOCALIZATION SIGNAL MUTANTS OF MOUSE HSF1 BETA AND GAMMA; <u>Jessica William</u> , <u>Kel Lee Hassman</u> , and Dr. Nancy Bachman; Biology Department, SUNY Onenonta, Oneonta, NY

CM 13	COMPUTATION SCREENING AND EVALUATION OF MATRIX METALLOPROTEINASE-9 INHIBITORS; <u>Paulina Cotzomi</u> , Monica Jankowicz, and Dr. Ish Kumar; School of Natural Sciences, Fairleigh Dickinson University, Teaneck, NJ
CM 14	THE REGULATION OF MTOR SIGNALING BY CD44 IN BREAST CANCER; <u>Nourhan Diagham</u> , Corinne Corbi, Pierta Brites, and Dr. Kyle Murphy; Department of Biochemisgtry and Microbiology, Rutgers University, New Brunswick, NJ
CM 15	VIRTUAL SCREENING OF LIGANGS TARGETING 6TM SPLICE VARIANTS OF Mu-OPIOID RECEPTORS: TO IDENTIFY NOVEL ANALGESIES COMPARABLE TO IBNtxA; <u>Cecilia Floyd</u> , <u>Ashleigh McConnel</u> , Paige Fisher, and Dr. Chun Wu; Translational Biomedical Science, Rowan University, Pitman, NJ

CM 16	EXAMINING THE ROLE OF FASCIN IN GLIOMA; <u>Faraz Jamal</u> , and Dr. Cathryn Kubera; Department of Biology, Monmouth University, Long Branch, NJ
CM 17	COMPUTATIONAL AND BIOLOGICAL STUDY OF THE CDC20-50 MUTANT OF THE MITOTIC CHECKPOINT COMPLEX IN BUDDING YEAST; <u>Mary Soorial</u> , Dr. Gloria Anderle [^] , and Dr. Patricia Melloy*; [^] Department of Chemistry and Pharmaceutical; Science, *Department of Biological and Allied Health Science, Fairleigh Dickinson University, Madison, NJ
CM 18	NURD MACHINERY REGULATES MEIOTIC DOUBLE-STRAINED BREAKS; <u>Carolyn Turcotte</u> , Julia Rigothia, Erika Rosenkranse, and Dr. Paula Checchi, Biology Department, Marist College, Poughkeepsie, NY
CM 19	OPTIMIZATION OF AUTODOCK VINA TO STUDY NATURAL PRODUCTS; <u>Chris Wakim</u> and Dr. Sonia Arora; Plant Biology and Biotechnology, Rutgers University, New Brunswick, NJ

ECOLOGY, EVOLUTION & ENVIRONMENTAL SCIENCE II

E 8	LIGHTEN UP: GENETICS OF COAT COLOR EVOLUTION IN THE HONDURAN WHITE BAT, <i>ECTOPHYLLA ALBA</i> ; <u>Ramatu Abubakar</u> , and Dr. Liliana Davalos; Department of Ecology and Evolution, Stony Brook University, Stony Brook, NY
E 9	A QUEST FOR NOVEL ANTIBIOTIC PRODUCING BACTERIA THROUGH SOIL DIGGING; <u>Noemi Cruz</u> , Shrushti Patel, Vaidehi Kathiria, and Dr. Meriem Bendaoud, Department of Biology, New Jersey City University, Jersey City, NJ
E 10	EFFECTS OF ROAD RUNOFF CHEMICALS ON CRAYFISH FORAGING BEHAVIOR; <u>Amy Defnet</u> and Dr. James Salierno; Department of Biological and Allied Health Sciences, Fairleigh Dickinson University, Madison, NJ
E 11	AN INTERNATIONAL COMPARISON OF TREE-RING DENSITY; <u>Jessica Geary</u> , Rose Oelkers and Dr. Nicole Davi; Department of Environmental Science, William Paterson University, Wayne, NJ
E 12	THE EFFECTS OF INVERTEBRATE COLONIZATION ON WATER FLOW AROUND PIER PILINGS: IMPLICATIONS ON HOMELAND SECURITY; <u>Kaylee Saltos</u> , Naysha Angelucci, Christian Bojorquez, Na'Vonna Turner, and Dr. Allison Fitzgerald; Department of Biology, New Jersey City University, Jersey City, NJ
E 13	A PHYLOGENETIC ANALYSIS OF A BUTYRATE BIOSYNTHETIC PATHWAY IN MAMMALIAN GUT BACTERIA; <u>Andrew Waldburger</u> , Dr. Carey Waldburger, and Dr. Emily Monroe; Department of Biology, William Paterson University, Wayne., NJ

E 14	WATER AND SEDIMENT QUALITY OF URBAN RIVERS IN NEW JERSEY; Felix Zamora and Dr. Hun Bok Jung; Department of Geoscience and Geography, New Jersey City University, Jersey City., NJ
------	---

GENETICS

G 1	MOLECULAR ANALYSIS OF <i>FLOWERING LOCUS T (FT)</i> AND <i>FT-LIKE</i> SEQUENCES CLUSTERED ON CHROMOSOME 6 OF THE <i>CITRUS SINENSIS</i> GENOME; <u>Mamadou Bah</u> , Kevon Colon, and Dr. Terry Kamps, Department of Biology, New Jersey City University, Jersey City, NJ
G 2	RESCUING LATE SPERM DEVELOPMENT USING THE GAL4/UAS SYSTEM; <u>Rachel Daniel</u> , Iryna Koziy, Vincent Lombardo, Elissa Innabi, and Dr. James Fabrizio, Biology Department , College of Mount Saint Vincent, Bronx, NY
G 3	MiRNA21a-MEDIATED Anti-EGFR siRNA GENE TRANSFER; <u>Medha Dommaraju</u> and Dr. Martin Hicks; Department of Biology, Monmouth University, West Long Branch, NJ
G 4	GENETIC DELIVERY OF A miRNA CLUSTER WITH POLYCISTRONIC siRNAs REDUCES mRNA EXPRESSION OF EPIDERMAL GROWTH FACTOR RECEPTOR IN HUMAN GLIOBLASTOMA CELLS; <u>Zainab Faiz*</u> , Imari Patel ¹ , and Dr. Martin Hicks*; ¹ Department of Biology, Drexel University; *Department of Biology, Monmouth University, West Long Branch, NJ
G 5	DESIGN OF A PRE- <i>TRANS</i> -SPLICING MOLECULE TO GENERATE SOLUBLE EXTRACELLULAR PEPTIDE DECOY TO BLOCK ACTIVATION OF THE EGFR PATHWAY IN HUMAN GLIOBLASTOMA CELLS; <u>Sarah Falotico</u> ¹ , <u>Nicole Sivetz</u> ¹ , <u>Peter Nekrasov</u> ² , and Dr. Martin Hicks; ¹ Department of Biology, Monmouth University, West Long Branch, NJ; ² Biotechnology High School, Freehold Township, NJ
G 6	RNA EDITING OF <i>ATP8</i> : A POTENTIAL CAUSE OF S TYPE CYTOPLASMIC MALE STERILITY IN <i>ZEA MAYS</i> ; <u>Brigid Masker</u> and Dr. Terry Kamps; Department of Biology, New Jersey City University, Jersey City, NJ
G 7	RNA MULTIFUNCTIONAL ANTISENSE GENE TRANSFER STRATEGY TO ALTER HGFR EXPRESSION IN GBM; Priyal Patel and Dr. Martin Hicks; Department of Biology, Monmouth University, West Long Branch, NJ
G 8	NuRD CHROMATIN REMODELERS BLOCK CHECKPOINT ACTIVATION IN <i>C. Elegans</i> ; Solomon Sloat, Julia Rigothi, and Dr. Paula Checchi, Department of Biology, Marist College, Poughkeepsie, NY

COMPUTATIONAL & PHYSICAL CHEMISTRY

C P 1	COMPUTATIONAL MODELING OF HYDROXAMIC ACID CONTAINING COMPOUNDS TO IMPROVE METAL CHELATION; <u>Karan Arora</u> , Dr. Earl Benjamin, and Dr. Ellis Benjamin; Department of Chemistry, Stockton University, Galloway, NJ
CP 2	USING DIFFERENT COMPUTATIONAL AND EXPERIMENTAL SPECTROSCOPIES TO DEMONSTRATE PHOSPHATE AND METAL INTERACTION AT DIFFERENT PH'S; <u>Roksana Azad</u> , Muhaned Mohamed, Pamela Lebron, and Dr. Ruel Z.B. Desamero; Department of Chemistry, CUNY-York College, Jamaica, NY
C P 3	SCATTERING MEDIATED HOT-ELECTRON TRANSFER: A NEW PARADIGM FOR LIGHT-DRIVEN ENERGY TRANSFER; <u>Jessica Czarnecki</u>, <u>Noor Eldabagh</u>, <u>Juan Pulgarin</u> , Jason Coddington, and Dr. Jay Foley, Department of Chemistry, William Paterson University, Wayne, NJ
C P 4	PURIFICATION AND ANALYSIS OF ANTIMICROBIAL COMPOUNDS FROM THE TRUMPET VINE; <u>Brittany Handzo</u>, <u>Jeffrey Courter</u> , Dr. Alice Benzecry, and Dr. Ish Kumar; School of Natural Sciences, Fairleigh Dickinson University, Teaneck, NJ
C P 5	MODELING SELECTIVITY OF BINDING OF POLYCYCLIC AROMATIC LIGANDS TO DNA; <u>Erin Hoag</u>, <u>Katlynn Muratore</u> , Marie Furda, Crystal Diaz, and Dr. Cmytro Kosenkov; Department of Chemistry and Physics, Monmouth University, West Long Branch, NJ
C P 6	DETERMINING PROTEINS STRUCTURE USING NMR: MORE INCLUSIVE CORES IDENTIFIED BY FINDCORE2 AND CYRANGE IN MR CALCULATIONS; <u>Amaal Kalds</u> and Dr. David Snyder; Department of Chemistry, William Paterson University, Wayne, NJ
C P 7	TIME-DOMAIN NMR ANALYSIS OF COMPOSITION OF GRASS AND HAY; <u>Minhaz Mahbub</u>¹, <u>Daniel Ferlisi</u>² , K. Conover ¹ , M. Mohr ³ , P.K. Sirois, ⁴ V.A.Massi ⁴ , Dr. Pelzer ¹ and Dr. Ralston ² ; ¹ Department of Chemistry, Princeton University, Princeton, NJ; ² Department of Animal Science, Rutgers University, New Brunswick,, NJ; ³ Department of Plant Biology and Pathology, Rutgers University, New Brunswick, NJ; Dairy One Forage Lab, Ithaca, NY
C P 8	COST-EFFICIENT PURIFICATION OF TYROSINASE; Venkatashiva Patnala, Christina Kohn, and Dr. David Snyder , Department of Chemistry, William Paterson University, Wayne, NJ

C P 9	STRUCTURAL UNCERTAINTY IN PROTEINS: A STATISTICAL APPROACH TO UNDERSTANDING THE UNCERTAINTY IN POSITIONS OF CARBONYL OXYGEN ATOMS AND ALPHA CARBONS IN NMR-DERIVED STRUCTURES; Sam Russo and Dr. David Snyder; Department of Chemistry, William Paterson University, Wayne, NJ
--------------	---

INORGANIC & BIOANALYTICAL CHEMISTRY

IC 1	INTERNALIZATION OF FLUORESCENT NANOPARTICLES BY THE MURINE LEUKEMIA CELLS: IN VITRO EXAMINATION OF NANOPARTICLE COMPARTMENTALIZATION; <u>Daniela Artiga</u> ^{1, 2} , Aarti Patel ² , Dr. Bhanu P.S. Chauhan ² , Dr. J.W. Lee ¹ ; ¹ Department of Biology; ² Department of Chemistry; William Paterson University, Wayne, NJ
IC 2	DESTRUCTION OF CHLOROFLUOROCARBONS IN NON-THERMAL PLASMA; <u>Stefani Kocevskaja</u> , and Dr. Lev Krasnoperov; Department of Chemistry and Environmental Science, New Jersey Institute of Technology, Newark, NJ
IC 3	CHEMICAL COMPARISON BETWEEN MODERN AND FOSSIL CARCHARHINIFORMES; <u>Sanserei Pilapil</u> ⁺ , Fatima Popcakova ⁺ , Qiaxian Johnson ⁺ , Dr. Michael Griffiths [^] , Dr. Martin Becker [^] , and Dr. Bhanu P.S. Chauhan ⁺ ; [^] Department of Environmental Science; ⁺ Department of Chemistry, William Paterson University, Wayne, NJ
IC 4	CHEMICAL COMPARISON BETWEEN MODERN AND FOSSIL LAMNIFORMES; <u>Fatima Popcakova</u> ⁺ , <u>Sanserei Pilapil</u> ⁺ , Qiaxian Johnson ⁺ , Dr. Michael Griffiths [^] , Dr. Martin Becker [^] , and Dr. Bhanu P.S. Chauhan ⁺ ; [^] Department of Environmental Science; ⁺ Department of Chemistry; William Paterson University, Wayne, NJ
IC 5	C-P BOND FORMATION REACTION THROUGH DIRECT COUPLING OF BORONIC ACIDS WITH PHOSPHONATE DIESTERS IN THE PRESENCE OF Pincer COBALT (PCP) COMPLEXES; <u>Rania Teriak</u> , <u>Kimberly Valdivia</u> , and Dr. Parminder Kaur; Department of Chemistry, William Paterson University, Wayne, NJ
IC 6	EXPLORING THE NEW HORIZONS OF MES-BIAN VANADIUM CHEMISTRY; <u>Noriyo Onishi</u> ¹ , <u>Gabrielle Risica</u> ¹ , Namkhang Tsdamchoe ¹ , Julie Nicklas ² , Dr. Colin Abernethy ¹ , and Dr. John Gorden ² ; ¹ Department of Chemistry, Sarah Lawrence college, New York, NY; ² Department of Chemistry, Auburn University, Auburn, AL

MATERIAL CHEMISTRY

M 1	Mg-Fe LAYERED DOUBLE HYDROXIDES STRUCTURE AND MORPHOLOGY; <u>David Akpatsu</u> ¹ , Jonathan Gabriel ¹ , Aarti Patel ¹ , Dr. Andrei Jitianu ² , and Dr. Mihaela Jitianu ¹ ; ¹ Department of Chemistry, William Paterson University, Wayne, NJ; ² Department of Chemistry, CUNY-Lehman College, West Bronx, NY
M 2	STUDY OF FORMATION OF HYDROXYAPATITE; <u>Martin Kowaleff</u> , Naphtali O'Connor and Dr. Andrei Jitianu; Department of Chemistry, CUNY-Lehman College, West Bronx, NY
M 3	MATERIALS-BY-DESIGN APPROACH TO THERMAL AND SOLAR ENERGY CONVERSION; <u>Ashley McDonnell</u> , <u>Alex Moyer</u> , Matthew Bogacz, and Dr. Jay Foley; Department of Chemistry, William Paterson University, Wayne, NJ
M 4	STUDY OF TiO₂ AND ZnO SEMICONDUCTORS AND EFFECTS ON BINDING; <u>Shiv Misra</u> and Dr. Elena Galoppini, Chemistry Department, Rutgers University, Newark, NJ
M 5	A COMPARATIVE ANALYSIS OF NEW GENERATION METAL-IMPREGNATED NANOMATERIALS; <u>Kelly Moran</u> , Aarti Patel, Qiaxian Johnson, and Dr. Bhanu P.S. Chauhan; Department of Chemistry, William Paterson University, Wayne, NJ
M 6	THE SYNTHESIS OF DENDRITIC CONSTRUCTS VIA HYDROSILYLATION; <u>Glory Nkak</u> , Saadia Chaudry, Aarti Patel, and Dr. Bhanu P.S. Chauhan; Department of Chemistry, William Paterson University, Wayne, NJ
M 7	COMPARATIVE STUDY OF MELTING GELS BEHAVIOR; Gabriela Rodriguez ¹ , Tim McClurg ² , Dr. Mihaela Jitianu ² , Dr. Andrei Jitianu ¹ , and Dr. Lisa Klein ³ ; ¹ Department of Chemistry, Lehman College, CUNY, Davis Hall, West, Bronx, NY
M 8	Co(II)- Ni(II)- And Mg(II)- LAYERED HYDROXIDES COMPARATIVE STUDY; Feras Saifan ¹ , David Akpatsu ¹ , Dr. Andrei Jitianu ² and Dr. Mihaela Jitianu ¹ ; ¹ Department of Chemistry, William Paterson University, Wayne, NJ; ² Department of Chemistry CUNY-Lehman College, West Bronx, NY