Local Coordinator: Dr. Eric Iannacone, President NJAS

Local Meeting Host: Raritan Valley Community College

Session	Room	Moderator
Microbiology	H 118	Roberta Bartorsky
Engineering/Physics	H 120	Mitra Shojani-Feizbadi
Math	H 123	Shivani Patel
Cell & Molecular Biology	H 110	TBA
Biochemistry	H 116	Rebecca Lyddon
Health & Medicine I	S 243	Laura Lorentzen
Health & Medicine II	S 244	Diane Ratner
Environment & Ecology I	S 016	Alex Soranno
Environment & Ecology II	S 245	Dena Restaino
Psychology & Behavior	S 018	TBA
H = Hunterdon, S = Somerset		





Microbiology Room: Hunterdon 118 Moderator: Roberta Bartorsky

Time	Presenters	Title
9:45	Erica Cai	ANTIBACTERIAL EFFECT OF PROPOLIS
9:55	Tiffany Zhao	INVESTIGATING LOW-COST METHODS OF CARBON DIOXIDE
		GENERATION FOR TEMPORARY CULTURE OF HELA CELLS
10:05	Eric Liu, Rohan	THE EFFECT OF TERMAMYL AMYLASE ON THE ADHERENCE AND
	Kodialam	GROWTH OF S.epidermidis BIOFILMS ON TITANIUM
10:15	Ashley Winters	THE COMBINED EFFECTS OF PIPERLONGUMINE, VITAMIN C, AND
		VITAMIN D ON LIFESPAN IN A Caenorhabditis elegans MODEL
		AFTER HEAT SHOCK
10:25	Brian D'Agostino,	THE EFFECTS OF CACL ₂ , KCL, NACL, AND DH ₂ O ON CELL
	Kelsey Murray, Amanda	COMPETENCE IN THE TRANSFORMATION OF Escherichia coli
	Siriram	MM294
BREAK		
10:35	Julia Flores	EVALUATION OF AGAROSE GEL ELECTROPHORESIS AS A
		MOLECULAR TYPING METHOD FOR THE IDENTIFICATION OF S.
		epidermidis, A MODEL ORGANISM FOR MRSA
10:45		

Engineering/Physics Room: Hunterdon 120 Moderator: Mitra Shojani-Feizbadi

Time	Presenters	Title
9:45	Rahul Rangwani	THE EFFECT OF SOCCER CLEAT WEIGHT ON KICK DISTANCE
9:55	Vivian Qiang	COMPARISON OF THE WATER RESISTANCES OF DIFFERENT SWIMSUIT FABRICS
10:05	Tien-Sheng Wang	COMPARISON OF PLACEMENT OF RIM SENSORS
10:15	Samantha Soliman	INTUITIVE BANDAGES: A NOVEL INFECTIONS DETECTION METHOD USING NANO HEAT SENSORS
10:25	Soohee Lee	SUPERCAPACITORS
BREAK		
10:35	Nicholas Ciulla	EFFECTS OF A CONVEX LENS AND MIRRORS ON GENERATION OF SOLAR POWER
10:45	Eugene Lim	SYNTHESIS OF MICROFLUIDIC CHANNELS FOR USE IN BIOMEDICAL
10:55	Eugene Kim	ABNORMAL FUNCTIONAL CONNECTIVITY IN THE BRAIN AS CRITERION FOR LOCALIZATION IN CRYPTOGENIC CASES OF FOCAL EPILEPSY
11:05		

Room: Hunterdon 123 Moderator: Shivani Patel

Time	Presenters	Title
9:45	Hill Chang	AN ANALYSIS OF FACTORS INFLUENCING THE EFFECT OF SOCIAL
		MEDIA ON LASTING FAME GROWTH
9:55	Eric Chang	A STRATEGY FOR INVESTIGATING THE CORRELATION BETWEEN
		NUMBER OF TWEETS MENTIONING AN ELECTRONIC PRODUCT
		AND ITS REAL WORLD SALES
10:05	Kunal Singh	ANALYZING SOCIAL MEDIA CONTENT FROM CANCER PATIENTS
10:15	Iris Rukshin	ON THE PROGNOSTIC VALUE OF THE NEUTROPHIL TO
		LYMPHOCYTE RATIO FOR THE INCIDENCE OF ACUTE
		CARDIOVASCULAR EVENTS IN STROKE PATIENTS
10:25	Ananya Joshi	DETERMINING AN OPTIMAL AMINO ACID SEQUENCE AS A
		FIBRILLOGENISIS INHIBITOR OF Aβ <i>IN SILICO</i>
BREAK		
10:35	Jesse Doppelt	AN EVALUATION OF STATISTIC BASED PREDICTIONS
		IMPLEMENTED INTO FANTASY FOOTBALL
10:45	Newton Xie, Matt	PREDICTING SHORT TERM FLUCTUATIONS IN STOCK PRICES
	Koutsoutis	DURING EVENTS
10:55		

Cell & Molecular Biology Room: Hunterdon 110 Moderator: TBA

Time	Presenters	Title
9:45	Liz Kuhlman	GENOME PROJECT OF PLASMID AND STRESS RESPONSE OF
		PLASMID IN CYANOBACTERIA Synechococcus IU 625
9:55	Diljeet Kaur	THE ROLE OF DICER IN HYPER-METHYLATION
10:05	Marshall Guo	THE EFFECT OF NICOTINAMIDE ON β-AMYLOID AND TAU
		PROTEIN LEVELS
10:15	Grace Kwon	THE ROLES OF STAT5 AND MCL-1 IN THE PROLIFERATION OF K562
		CELLS
10:25	Emily Trimm	ALZHEIMER'S AND AMD: THE IRON CONNECTION
BREAK		
10:35	Ryan Lee	THE EFFECTS OF A COMBINATION TREATMENT, BASED ON THE
		INGREDIENTS OF KIMCHI, ON GASTRIC CANCER CELLS
10:45	Andrea Thomas	ROLE OF C-MYC AND MAD1 IN YAP1-DOWNREGULATED HaCaT
		AND MDA-MB-231
10:55	Kiran Bhutada	BACK TO THE ROOTS: CURCUMIN INDUCED CHEMO-
		SENSITIZATION OF OVARIAN CANCER CELLS
11:05	Caroline Kratka	CONTRACTION AND EXPANSION OF THE MOUSE BLASTOCYST IN
		VITRO
11:15		

Biochemistry

Room: Hunterdon 116 Moderator: Rebecca Lyddon

Time	Presenters	Title
9:45	Isabella Martin	THE EFFECT OF HEAT SHOCK PROTEINS ON THE
		CHEMOTHERAPY-INDUCED NEURODEGENERATION OF
		ASTROCTYES
9:55	Erik Wu	THE SYNTHESIS OF OLEIC ACID CORE SILICA NANOPARTICLES
		FOR THE SAFE DELIVERY OF ENZYMES
10:05	Justin Yu	MANAGING INFLAMMATION IN CHRONIC LYMPHOCYTIC
		LEUKEMIA TREATMENT
10:15	Rachel Kaufman	THE UV ABSORPTION OF CHLOROPHYLL COMPARED TO
		OXYBENZONE, HOMOSALATE, AVOBENZONE AND
		OCTOCRYLENE
10:25	Adi Melamed	THE ROLE OF ALPHA-SYNUCLEIN ON APOPTOSIS AND OXIDATIVE
		DNA DAMAGE IN A ROTENONE-INDUCED IN VITRO MODEL OF
		PARKINSON'S DISEASE
BREAK		
10:35	Arun Kalyanaraman	BIOPHYSICAL MODELS OF PROTEIN EVOLUTION
10:45	Zechariah Brown,	EXPRESSION AND PURIFICATION OF DHFR MUTANTS
	Jennifer Zelnick	
10:55		

Health & Medicine I Room: Somerset 243 Moderator: Laura Lorentzen

Time	Presenters	Title
9:45	Sara Zhou	EXTENDING LIFETIME OF COAGULATION FACTOR USING VON-
		WILLEBRAND FACTOR FRAGMENTS
9:55	Eric Kim	LINKING DIABETES TO ALZHEIMER'S DISEASE IN
		NEUROBLASTOMA CELLS VIA TGFBETA1
10:05	Hee-Sung Kim	NOVEL GHRELIN-ACTIVATED MECHANISM IN THE INTESTINES:
		SOLUTION TO TYPE-2 DIABETES
10:15	Serena Tharakan, Jenna	NANOPARTICLE-MEDIATED GENE DELIVERY VIA BALLOON
	DiRito	ANGIOPLASTY TO SUPPRESS INTIMAL HYPERPLASIA
10:25	Nitza Granados	MONASCIN'S AFFECTS ON AMYLOID BETA PEPTIDE LEVELS BY
		UP-REGULATION OF PPARγ AND INSULIN DEGRADING ENZYMES
		IN SH-SY5Y CELLS.
BREAK		
10:35	Vivian Xu	DOUBLE-TEAMING PARKINSON'S DISEASE WITH RESVERATROL
		AND COQ10
10:45	Thomas Ferrante	A NOVEL TARGET FOR REDUCING THE ADVERSE EFFECTS OF
		CHEMOTHERAPY: THE GONADOTROPIN RELEASING HORMONE
		RECEPTOR
10:55	Bianca Pereira	INHIBITING EEF2K-MEDIATED AUTOPHAGY AND ITS EFFECT ON
		PANC-1 CELL PROLIFERATION
11:05	Minny Jeong	INCREASING THE EFFICACY OF GEFITINIB THROUGH β1 INTEGRIN
		DOWN-REGULATION IN MDA-MB-231

Health & Medicine II Room: Somerset 244 Moderator: Diane Ratner

Time	Presenters	Title
9:45	Rachel Gleyzer	KRAS AS A NOVEL TARGET IN GLIOBLASTOMA MULTIFORME
		TREATMENT
9:55	Yashaar Hafizka	EFFECTS OF BETA-LAPACHONE ON INTERACTIONS BETWEEN
		NATURAL KILLER CELLS AND BDCM CELLS.
10:05	Rachael Han	EFFECT OF BERBERINE ON A375 MELANOMA CELLS
10:15	Shin Hye Kim	THE ROLE OF EXOSOME MEDIATED CROSSTALK IN THE
		INFLAMMATORY RESPONSE OF ASTROCYTES
10:25	Joyce Zhou	INHIBITION OF METASTASIS AND INVASIVENESS IN A2058
		MELANOMA CELLS BY MIR-145
BREAK		
10:35	Arushi Ramani	ASSESSMENT OF CURCUMIN CYTOTOXICITY AND ITS
		THERAPEUTIC POTENTIAL IN BREAST CANCER
10:45	Nicole J. Kim	FIBROBLAST GROWTH FACTOR-2 AND SYNDECAN-1 AS
		POTENTIAL BIOMARKERS OF CIRCULATING CD15+/CD30+ CELLS
		IN POOR OUTCOME HODGKIN LYMPHOMA PATIENTS
10:55	Julie Patel	THE EFFECT OF DOXORUBICIN-LOADED-CURCUMIN-STABILIZED
		GOLD- NANOPARTICLES ON BREAST CANCER CELLS
11:05	Himani Patel	THE MECHANISMS OF METFORMIN IN MDA-MB-231 TRIPLE
		NEGATIVE BREAST CANCER
11:15		

Environment & Ecology I Room: Somerset 016 Moderator: Alex Soranno

Time	Presenters	Title
9:45	Elizabeth Brooks	CARCINOGENIC EFFECTS OF CHEMICALS FOUND IN HYDRAULIC
		FRACTURING FLUID ON SELENASTRUM CAPRICORNUTUM
9:55	Joseph Maggiore	THE USE OF SARGASSUM SP. AS A BIOSORBENT
10:05	Vladyslav Nazarchuk	ANALYSIS OF NITRATE POLLUTION IN MANALAPAN BROOKS
10:15	Samuel Coakley	THE CHANGES IN THE SEDIMENT GRADIENT OVER TIME OF
		MONMOUTH COUNTY BEACHES POST-HURRICANE SANDY
10:25	Marianna Fleming	THE RELATIONSHIP BETWEEN THE CHANGES IN SAND VOLUMES
		AND THE BIODIVERSITY INDICES ON VARIOUS BEACHES IN
		MONMOUTH COUNTY, NJ POST HURRICANE SANDY
BREAK		
10:35	Ryan Badum	THE RELATIONSHIP BETWEEN HURRICANE SANDY AND
		POPULATIONS OF Carex kobomugi AT THE SANDY HOOK UNIT OF
		THE GATEWAY NATIONAL RECREATION AREA
10:45	Grace McIlvain	SIZE, ABUNDANCE, BIODIVERSITY AND DISTRIBUTION OF
		ICHTHYOPLANKTON FOUND IN BARNEGAT BAY, NEW JERSEY
		FROM MAY 2012 TO OCTOBER 2013
10:55		

Environment & Ecology II Room: Somerset 245 Moderator: Dena Restaino

Time	Presenters	Title
9:45	Tracy Wan	THE EFFECTS OF TITANIUM DIOXIDE NANOTUBES ON THE
		PHOTODEGRADATIONS OF METHYL ORANGE
9:55	William Lin	THE EFFECT OF REFRACTED LIGHT ON ALGAE GROWTH
10:05	Rajaamatangi Pillai	THE EFFECT OF SOIL AMENDED WITH GREEN TEA LEAVES ON
		THE PRODUCTION OF SPINACH PLANTS
10:15	Nivetha Karthikeyan	THE EFFECT OF MARIGOLD NATURAL PESTICIDES ON
		CONTROLLING A NEMATODE POPULATION
10:25	Anuja Walke	INDUCTION OF PLANT DEFENSE USING 2, 6
		DICHLOROISONICOTINIC ACID ON Curtobacterium flaccumfaciens in
		MUNG BEANS
BREAK		
10:35	Yewoon Choi	THE REMOVAL OF COPPER (II) IONS IN WATEWATERS USING
		BIOADSORBENTS
10:45	David Yang	ENCAPSULATION OF PEPPERMINT TEA LEAVES IN ALGINATE
		BEADS FOR THE REMOVAL OF COPPER (II) IONS FROM
		CONTAMINATED WATER
10:55	Alon Millet	CELLULOSE BINDING DOMAINS: NOVEL IMPLICATIONS IN
		AGRICULTURE AND BIOFUEL PRODUCTION

Psychology & Behavior Room: Somerset 018 Moderator: TBA

Time	Presenters	Title
9:45	Gillian Covillo	AUDITORY STIMULI IMPACT ON TEENAGE GIRL'S DREAM
		COGNITION IN REM SLEEP STAGE
9:55	Matthew Kumar	THE EFFECT OF POSITIVE REINFORCEMENT ON THE ACADEMIC
		PERFORMANCE OF ADOLESCENT MALES AND FEMALES
10:05	Tiffany Chen	THE EFFECT OF COLOR-TINTED ENVIRONMENTS ON GOLDFISH
		ACTIVITY
10:15	Tiffany Yuen	COMPARISON OF DIFFERENT PERSONALITY TYPES: INTROVERTS
		AND EXTROVERTS WITH NUMBER OF FRIEND NODES ON
		FACEBOOK
10:25	Priscilla Wong	ASTIGMATISM ON THE ABILITY TO VIEW MAGIC EYE 3D
		ILLUSIONS
BREAK		
10:35	Connor O'Leary	OLFACTORY ASPECTS OF PATHOGENIC RESPONSE AND
		AVOIDANCE IN C.elegans
10:45	Ariana Bhatia	THE CORRELATION BETWEEN UNEMPLOYMENT RATE
		FLUCTUATION AND STRESS-RELATED MEDICAL DISORDERS
10:55		