

2018 NISBRE iPoster Presentations

by Scientific Focus

Scientific Focus Area	Presenter	Title	Monitor	Day & Time	Poster Session
Bioengineering/Biotechnology/Nanotechnology	Alkhaleeli, Rami	Antibacterial properties of MgO nanoparticles immobilized polycaprolactone nanofiber membrane to Staphylococcus aureus	1	Sunday, 5pm	1
Bioengineering/Biotechnology/Nanotechnology	Barrs, Ryan	Development of a Vasculogenic Bioink to Support Bioprinted Tissue Constructs	2	Sunday, 5pm	1
Bioengineering/Biotechnology/Nanotechnology	Faundo, Michael	Production of a Novel Far Red, Near-Infrared Fluorescent Protein Isolated from a Siphonophore	3	Sunday, 5pm	1
Bioengineering/Biotechnology/Nanotechnology	Goodrow, Elizabeth	Analysis of Melamine in Pet Food Using Gold Nanoparticles and UV-Vis Spectroscopy	4	Sunday, 5pm	1
Bioengineering/Biotechnology/Nanotechnology	Penton, Kathryn	Release Studies of Electrospun Drug-Loaded Alginate- and Chitosan-Based Nanofibers	5	Sunday, 5pm	1
Bioengineering/Biotechnology/Nanotechnology	Holland, Jack	Computationally predicting protein allostery using tertiary motifs	6	Sunday, 5pm	1
Bioengineering/Biotechnology/Nanotechnology	Dhulekar, Jhilmil	Diabetes Resistant Tissue Engineered Vascular Grafts	7	Sunday, 5pm	1
Bioengineering/Biotechnology/Nanotechnology	Angles, Gary	Molecular dynamic simulations of permeation through a lipid bilayer: Contrast to EPR oximetry.â€	1	Sunday, 6pm	2
Bioengineering/Biotechnology/Nanotechnology	Borem, Ryan	Biomimetic Annular Implant for Intervertebral Disc Tissue Regeneration	2	Sunday, 6pm	2
Bioengineering/Biotechnology/Nanotechnology	Anker, Jeffrey	Implanted pH sensors read with radiography	3	Sunday, 6pm	2
Bioengineering/Biotechnology/Nanotechnology	Long, Allison	Optimization of the Expression, Growth, and Purification of Toxoflavin Lyase	5	Sunday, 6pm	2
Bioengineering/Biotechnology/Nanotechnology	Vyavahare, Narendra	Nanoparticle targeting to reverse aortic calcification in a modified mouse model of adenine-induced chronic kidney disease	6	Sunday, 6pm	2
Bioengineering/Biotechnology/Nanotechnology	Santra, Santimukul	Multimodal Theranostic Nanomedicine for the Targeted Treatment of Cancer	7	Sunday, 6pm	2
Bioengineering/Biotechnology/Nanotechnology	Molina, Inaya	Development of a Novel, Fluorescence-Based Assay for Determining the Melting Temperature of Partially Palindromic DNA Hairpins	8	Sunday, 6pm	2
Bioengineering/Biotechnology/Nanotechnology	Pereira, Mandy	Profile of microRNA and Inflammation Markers found in Salivary Extracellular Vesicles	9	Sunday, 6pm	2
Bioengineering/Biotechnology/Nanotechnology	Boukari, Hacene	LIBS Studies of Amino Acids and Proteins	1	Monday, 5pm	3
Bioengineering/Biotechnology/Nanotechnology	Chavez, Moises	Targeting Disabled-2 to Stabilize ÎƒF508-CFTR	2	Monday, 5pm	3
Bioengineering/Biotechnology/Nanotechnology	Case, William	Xerogel-Based Amperometric Biosensing: Adaptable Templates for Clinically Relevant Measurements	3	Monday, 5pm	3
Bioengineering/Biotechnology/Nanotechnology	He, Mei	Microfluidic 3D Electro-Transfection For Regulating Tissue Cellular Functions In Immunotherapy	4	Monday, 5pm	3
Bioengineering/Biotechnology/Nanotechnology	Khandaker, Morshed	Effect of nanofibers on the time dependent bone growth around a titanium implant	5	Monday, 5pm	3
Bioengineering/Biotechnology/Nanotechnology	Mccoy, Katherine	Predicting PDZ Binding Strength and Specificity	6	Monday, 5pm	3
Bioengineering/Biotechnology/Nanotechnology	Nagy Mehesz, Agnes	The Cell, Tissue and Molecular Analysis Core of the South Carolina Bioengineering Center of Regeneration and Formation of Tissues	7	Monday, 5pm	3
Bioengineering/Biotechnology/Nanotechnology	Schoneich, Sonia	Optimization of the Separation and Detection of Catecholamines for their Determination in Biological Samples using Microchip Electrophoresis with Electrochemical Detection	8	Monday, 5pm	3
Bioengineering/Biotechnology/Nanotechnology	Zeng, Yong	Enabling Microfluidics and Nanotechnologies for Precision Cancer Diagnosis	9	Monday, 5pm	3
Bioengineering/Biotechnology/Nanotechnology	Alkadhém, Niyaf	Immobilization of bone morphogenetic protein-2 with electrospunPCLNFM	1	Monday, 6pm	4
Bioengineering/Biotechnology/Nanotechnology	Borem, Ryan	Development of a Large Animal Model of Functional Intervertebral Disc Degeneration	2	Monday, 6pm	4
Bioengineering/Biotechnology/Nanotechnology	Chorny, Anatoliy	Quantification of Gene Activity in Real Time RT-PCR	3	Monday, 6pm	4
Bioengineering/Biotechnology/Nanotechnology	Coleman, Justin	Graphene Oxide: A Selective Transporter of Plant Flavonoids	4	Monday, 6pm	4
Bioengineering/Biotechnology/Nanotechnology	Kleinschmidt, Hunter	Bioremediation of Atrazine Polluted Groundwater with Arthrobacter aurescens TC1	5	Monday, 6pm	4
Bioengineering/Biotechnology/Nanotechnology	Vyavahare, Naren	Gold Nanoparticles Targeting To Degraded Elastin And Suggestive Biomechanics Of Aorta In An Angiotensin-II Induced Abdominal Aortic Aneurysm Mouse Model	6	Monday, 6pm	4
Bioengineering/Biotechnology/Nanotechnology	Sutlief, Arin	The Promotion and Visualization of Pseudomonas aeruginosa Persister Cells in a Microfluidic Device	8	Monday, 6pm	4
Bioengineering/Biotechnology/Nanotechnology	Xu, Jianfeng	Plant cell-derived growth factors for ex vivo massive production of red blood cells	9	Monday, 6pm	4
Bioengineering/Biotechnology/Nanotechnology	Elston, Marlee	Development of Glut1 shRNA knockdown mice to modulate glucose levels crossing the placenta	1	Tuesday, 8am	5
Bioengineering/Biotechnology/Nanotechnology	Eberth, John	Transition from Venous to Arterial Loading Improves Saphenous Vein Remodeling For Coronary Artery Grafting	2	Tuesday, 8am	5
Bioengineering/Biotechnology/Nanotechnology	Evans, Aysha	Rice (Sella) Starch Stabilized Gold Nanoparticle for Selective Tracking of Breast Cancer (SKBR3) Cells	3	Tuesday, 8am	5
Bioengineering/Biotechnology/Nanotechnology	Barczewski, Adam	NEMO: Engineering a Target for NMR Screening	4	Tuesday, 8am	5

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Bioengineering/Biotechnology/Nanotechnology	Paul, Arghya	Mechanobiologically-Activated Stem Cells for Advanced Cardiac Tissue Repair: in vitro and in vivo analysis	5	Tuesday, 8am	5
Bioengineering/Biotechnology/Nanotechnology	Richardson, William	A Matrix-Protease Network Model for Computational Predictions of Matrix Turnover	6	Tuesday, 8am	5
Bioengineering/Biotechnology/Nanotechnology	Valdes, Diego	Data Analytics of the Protein Data Bank	8	Tuesday, 8am	5
Cancer	Aladhmi, Ahmed	Potential angiogenic functions of mast cells in early stages of prostatic transformation	9	Sunday, 5pm	1
Cancer	Borgovan, Theo	Extracellular Vesicle Initiation of Leukemia Phenotype in Normal Adult Bone Marrow	10	Sunday, 5pm	1
Cancer	Khan, Majid	ZIKV in Controlling Growth of Neuroblastoma Stem Cells	11	Sunday, 5pm	1
Cancer	Dings, Ruud	Sample storage conditions induce post-collection biases in microbiome profiles	12	Sunday, 5pm	1
Cancer	Kenny, Brittany	Dietary Compound Proanthocyanidins from Chinese bayberry (<i>Myrica rubra</i> Sieb. et Zucc.) leaves inhibit angiogenesis and regulate cell cycle of cisplatin-resistant ovarian cancer cells	13	Sunday, 5pm	1
Cancer	Jones, Kierra	Correlation of Double Cortin like Kinase 1 (DCLK1) with Colorectal Cancer	14	Sunday, 5pm	1
Cancer	Krager, Kimberly	Radiation induced alterations in transferrin receptor 1 affects osteoclast differentiation.	15	Sunday, 5pm	1
Cancer	Oliver, Haylee	Collagen Thickness Alters Tumorigenic Behavior of Papillary Thyroid Cancer Cells Harboring BRAFV600E Mutations	18	Sunday, 5pm	1
Cancer	Carl, Jordan	Evaluating the Effectiveness of MAPK and AKT Inhibitors in Reducing Cellular Proliferation in Papillary and Follicular Thyroid Cancer Cell Lines	19	Sunday, 5pm	1
Cancer	O'Brien, Alisha	Synthesis of novel organoplatinum(IV) compounds and evaluation of anticancer activity	20	Sunday, 5pm	1
Cancer	Sullivan, Con	Prolonged endoplasmic reticulum stress causes downregulation of TNFAIP8L1 expression in lung cancer cells	21	Sunday, 5pm	1
Cancer	Wei, Shuo	An ephrin-B/Wnt signaling crosstalk and regulation by ADAM9-mediated proteolysis in colorectal cancer progression	23	Sunday, 5pm	1
Cancer	Ali, Sk Imran	A role for DNA-PK in CTCF-mediated genome stability.	10	Sunday, 6pm	2
Cancer	Boulares, Hamid	Low doses of PARP inhibitors as a novel strategy to enhance anti-tumor immunity	13	Sunday, 6pm	2
Cancer	Cotton, Celeste	Beta HPV and the Hippo Tumor Suppressor Pathway	14	Sunday, 6pm	2
Cancer	Eldredge, Luke	The MAL/SRF pathway regulates desmosomal gene expression and localization	15	Sunday, 6pm	2
Cancer	Francian, Alexandra	Enhancing tumor antigen presentation with complement targeted liposomes	17	Sunday, 6pm	2
Cancer	Hasan, Ameera	Hallmarks of the First Zebrafish Precursor-B cell Acute Lymphoblastic Leukemia Model	18	Sunday, 6pm	2
Cancer	Joshi, Rashmi	DNA ligase IV depletion impairs cellular replication.	19	Sunday, 6pm	2
Cancer	Li, Dawei	A virome-wide clonal integration analysis platform for discovering virus-caused cancer patients	20	Sunday, 6pm	2
Cancer	McGuffee, Reagan	Synthetic Approaches to Photoactivatable Aromatic Heterocycles for Photoinduced Cell Death	21	Sunday, 6pm	2
Cancer	Norman, Christyan	The effect of chemotherapeutic agents Doxorubicin, Dexamethasone on prostate cancer cell hallmarks.	22	Sunday, 6pm	2
Cancer	Park, Gilseung	Discovery of a MYC-Driven Pre-B Cell Acute Lymphoblastic Leukemia Zebrafish Model	23	Sunday, 6pm	2
Cancer	Testerman, Traci	Effect of Indole-3-Carbinol on <i>H. pylori</i> -mediated carcinogenesis and cell signaling	24	Sunday, 6pm	2
Cancer	Ashley, Amanda	Targeting DNA repair in triple negative breast cancer	10	Monday, 5pm	3
Cancer	Dubielecka, Patrycja	Map3k8/COT1/Tpl2 drives resistance to Bcr-Abl1 inhibition through activation of MEK-ERK and NF- κ B pathways in a model of chronic myeloid leukemia	12	Monday, 5pm	3
Cancer	Chaiswing, Luksana	Redox State Determines The Differential Effects Of Redox-Cycle Compound In Chemosistant Ovarian Cancer Cells	13	Monday, 5pm	3
Cancer	Del Tatto, Michael	Scale Up Production of Functional Human Mesenchymal Stem Cell Vesicles using a HollowFiber Bioreactor.	14	Monday, 5pm	3
Cancer	Khan, Majid	Knockout of hypoxia induced factor 1 α in meningioma and glioma cell lines via short hairpin RNA interference and the CRISPR-Cas9 system.	17	Monday, 5pm	3
Cancer	Blue, Madison	MEK Inhibition Decreases Motility in Papillary Thyroid Cancer Cells Harboring BRAFV600E Mutations	19	Monday, 5pm	3
Cancer	Reynolds, Emma	Papillary and Follicular Thyroid Cancer Display Significantly Different Transcriptomes Despite Mutations in a Common Pathway	20	Monday, 5pm	3
Cancer	Medina-Bandy, Elijah	The Functional Significance of MxB on Prostate Cancer Metastasis	21	Monday, 5pm	3
Cancer	Quagliano, Anthony	Epigenetic modifiers overcome osteoblast-induced chemoprotection by suppressing cell adhesion and related signaling	23	Monday, 5pm	3
Cancer	Valentovic, Monica	Natural Product Modulation of Cisplatin Toxicity in Human Renal Proximal Tubular Epithelial Cells	24	Monday, 5pm	3
Cancer	Baures, Paul	An Improved Inhibitor of the Thioesterase Domain of Fatty Acid	10	Monday, 6pm	4
Cancer	Champagne, Devin	MCJ reduces mitochondrial ATP production required for ABC transporter mediated chemoresistance	13	Monday, 6pm	4
Cancer	Dieckman, Lynne	Mapping the Regions in PCNA and CAF-1 that Mediate Nucleosome Assembly	14	Monday, 6pm	4

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Cancer	Dubielecka, Patrycja	Loss of Abelson interactor-1 is linked to accelerated aging of hematopoietic system and malignant transformation	15	Monday, 6pm	4
Cancer	Gullapalli, Rama	Gallbladder Cancer Molecular Profiles of New Mexican Populations	17	Monday, 6pm	4
Cancer	Hodge, Johnie	MicroRNA-155 Overexpression Boosts Dendritic Cell-Mediated Anti-Tumor Immunity in Breast Cancer	18	Monday, 6pm	4
Cancer	Kmiec, Eric	CRISPR-directed Gene Knockout of NRF2 Increases Chemosensitivity in Human Lung Cancer cells.	19	Monday, 6pm	4
Cancer	Millay, Heidi	Leaving ligand effects on solubility and reactivity of monofunctional platinum(II) complexes	21	Monday, 6pm	4
Cancer	Saatci, Ozge	Targeting lysyl oxidase (LOX) potentiates sensitivity to chemotherapy in triple negative breast cancer	23	Monday, 6pm	4
Cancer	Vanderford, Nathan	Evaluating Team Science through Social Network Analysis	24	Monday, 6pm	4
Cancer	Vanderford, Nathan	The University of Kentucky Center for Cancer and Metabolism: Administrative Core	25	Monday, 6pm	4
Cancer	Bassette, Molly	Investigation of the effect of novel PD-L1 inhibitory peptides on CD8+ T cell-dependent cell death in lung cancer cells	7	Tuesday, 8am	5
Cancer	Bhandari, Subash	Investigating melanocyte Dielectric Permittivity of Melanoma on Skin using a RF Resonator	9	Tuesday, 8am	5
Cancer	Chapman, Heidi	A Novel NMR Based Screening Method to Identify Small Molecule Inhibitors of Rac1 GTPase	10	Tuesday, 8am	5
Cancer	Beeser, Alexander	Structure function analyses of the ribosome maturation factor Dusp12, a role for specialized ribosomes in oncogenesis?	11	Tuesday, 8am	5
Cancer	Bendrick, Jacqueline	Desmoplakin promotes cell migration via control of p38 MAPK and Rho GTPases	14	Tuesday, 8am	5
Cancer	Escalera, Tanya	Comparison of Hypoxic Inducible Factor Expression and Fluorescence Emission on cell treated with NBQ compounds under Hypoxic vs. Aerobic Conditions	15	Tuesday, 8am	5
Cancer	Hancher, Kayla	Screening of a Natural Product Library for the Discovery of Novel Leukemia Therapeutics	17	Tuesday, 8am	5
Cancer	Hoggarth, Zachary	UROtsa as a Model System to Study the Development of Heavy Metal Induced Basal Muscle Invasive Bladder Cancer	18	Tuesday, 8am	5
Cancer	Koturbash, Igor	Local radiotherapy potentiates the anticancer effects of methionine deficiency by targeting one-carbon metabolism and Mat2a down-regulation	19	Tuesday, 8am	5
Cancer	Lonski, Austin	Molecular Profiling of Malignant Melanoma in the State of Delaware Demographic Metadata Correlation Analysis Part II	20	Tuesday, 8am	5
Cancer	Sotelo, Katie	Two-photon imaging of NAD(P)H in squamous cell carcinoma to assess metabolic changes due to HER2 using phasor FLIM	21	Tuesday, 8am	5
Cancer	Shrestha, Swojani	Effect of cadmium on the stem/progenitor cell populations in cultures of renal proximal tubular cells.	23	Tuesday, 8am	5
Cardiovascular Disease	Agarwal, Shailesh	Mechanisms regulating compartmentation of cAMP in adult cardiac myocytes	24	Sunday, 5pm	1
Cardiovascular Disease	Foley, Ann	Tissue Engineering the cardiac pacemaker with small molecules.	25	Sunday, 5pm	1
Cardiovascular Disease	Smiljanec, Katarina	The Effect of Dietary Potassium on High Sodium Diets in Salt-Resistant Adults	28	Sunday, 5pm	1
Cardiovascular Disease	Patterson, Freda	Healthier Sleep as an adjunctive treatment for smoking cessation: A proof of concept study	29	Sunday, 5pm	1
Cardiovascular Disease	Vary, Calvin	A SWATH-MS Platform for Systems Analysis of Angiogenesis Signaling	30	Sunday, 5pm	1
Cardiovascular Disease	Wentzien, Derald	Correlating the Impacts of Obesity on Mortality-Rates in the US	33	Sunday, 5pm	1
Cardiovascular Disease	Ahuja, Hanna	Assessment of Cardiac Function of Rbm 20 ^{-/-} Rats Using Pressure-Volume Loop Analysis After 28 Days of Angiotensin II Treatment	25	Sunday, 6pm	2
Cardiovascular Disease	Ghonim, Mohamed	Critical DNA-repair-independent role for the catalytic subunit of DNA-PK in Atherosclerosis	28	Sunday, 6pm	2
Cardiovascular Disease	Pattillo, Christopher	Glutathione regulates VEGFR2 signaling in Human Aortic Endothelial Cells	30	Sunday, 6pm	2
Cardiovascular Disease	Vary, Calvin	A Novel Lipidomic Approach to Understand Human Diabetic Heart Disease	33	Sunday, 6pm	2
Cardiovascular Disease	Walters, James	Using zebrafish (Danio rerio) to investigate Enterocyte Mitochondrial Dynamics During High Fat Diet Absorption	34	Sunday, 6pm	2
Cardiovascular Disease	Witman, Melissa	Altered Vascular Function in Patients with Duchenne Muscular Dystrophy (DMD)	35	Sunday, 6pm	2
Cardiovascular Disease	Atteia, Bashir	Human carotid artery plaques: Role of autophagy in the plaque stability	25	Monday, 5pm	3
Cardiovascular Disease	Rezk, Bashir	A Novel Antioxidant 4-Hydroxy-2,5,6-Triaminopyrimidine: From Test Tube to Animal Model; Our next step is the Clinical Trial	28	Monday, 5pm	3
Cardiovascular Disease	Godwin, James	Macrophage control of scar-free repair and regeneration in the salamander limb and heart.	29	Monday, 5pm	3
Cardiovascular Disease	Goodchild, Ph.D., Traci	Therapeutic Potential of Renal Denervation and Stem Cells in Heart Failure	30	Monday, 5pm	3
Cardiovascular Disease	Kapusta, Daniel	Renal Sympathetic Nerve Activity Mediates Natriuretic Peptide Metabolism via Nephrylysin in Heart Failure	31	Monday, 5pm	3
Cardiovascular Disease	Bryant, Stephanie	The Effects of PUFA Concentrations on Cholesterol Absorption in the Larval Zebrafish Enterocyte	34	Monday, 5pm	3
Cardiovascular Disease	Howard, Candace	Body Composition Analysis in African Americans.	27	Monday, 6pm	4
Cardiovascular Disease	Dorans, Kirsten	Trends in prevalence and control of hypertension according to the 2017 ACC/AHA guideline	28	Monday, 6pm	4
Cardiovascular Disease	Kelly, Ben	Screening for Novel Therapeutic Compounds Against Chagas' Disease	29	Monday, 6pm	4

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Cardiovascular Disease	Washington, Iman	Dysfunctional Sensorimotor Response in Neonatal Rats Exposed to Reduced Uterine Perfusion	30	Monday, 6pm	4
Cardiovascular Disease	Rhoads, Douglas	SNP Association to Ascites for LRRTM4 Gene on Chromosome 22 in Broiler Chickens	31	Monday, 6pm	4
Cardiovascular Disease	Lavoie, Holly	Extracellular Matrix Protein mRNA Expression and Cardiac Function in Pregnant and Postpartum Mice	25	Tuesday, 8am	5
Cardiovascular Disease	Panchatcharam, Manikandan	LPP3 regulates mitochondrial respiration to limit myocardial dysfunction.	28	Tuesday, 8am	5
Cardiovascular Disease	Pham, Kevin	The potential role of ABCC6 in regulation of cardiac functions and purinergic signaling	29	Tuesday, 8am	5
Cardiovascular Disease	Wenner, Megan	Estradiol Modulates ETB Receptor Responses	33	Tuesday, 8am	5
Cardiovascular Disease	Zhang, Peng	C-terminal Src Kinase Regulates Mitochondrial Morphology and ROS Generation	34	Tuesday, 8am	5
Cardiovascular Research	Nearly, Devin	Do Graduated Compression Stockings Affect Your Heart?	35	Monday, 6pm	4
Cardiovascular Research	Presti, Nathaniel	Do graduated compression stockings speed-up recovery after maximal exercise in men?	36	Monday, 6pm	4
Core Facility	Ashpole, Nicole	Natural Products Neuroscience- In Vivo Pharmacology Core	34	Sunday, 5pm	1
Core Facility	Bourne, Philip	The Protein Production Core Facility OU-Norman	35	Sunday, 5pm	1
Core Facility	Driscoll, Heather	Vermont Genetics Network Bioinformatics Core Facility	36	Sunday, 5pm	1
Core Facility	Finch, Tabitha	The Vermont INBRE Professional Development and Education Core	37	Sunday, 5pm	1
Core Facility	Hackett, Jennifer	Next Generation Sequencing at KU Genome Sequencing Core	38	Sunday, 5pm	1
Core Facility	Jurkovitz, Claudine	The Research Service Network: A Virtual Core for Population Health Sciences	39	Sunday, 5pm	1
Core Facility	Mccourt, Mark	NDSU Center for Visual and Cognitive Neuroscience (CVCN) Driving Simulator Core Facility	40	Sunday, 5pm	1
Core Facility	Perera, Chamani	The Synthetic Chemical Biology Core (SCB): A Resource for Research in Chemical Biology	41	Sunday, 5pm	1
Core Facility	Smith, Diane	Development and Utilization of an On-line Tool for Capturing Center of Biomedical Research Excellence (COBRE) Reporting from Faculty, Staff, and Students	43	Sunday, 5pm	1
Core Facility	Vander Kooi, Craig	Nanobody Production using Alpacas: A New Service by a UK COBRE CoreVa	44	Sunday, 5pm	1
Core Facility	Bach, Al	Centralized Research Core Facility at the University of Rhode Island	36	Sunday, 6pm	2
Core Facility	Brown, Aliza	Decreasing Mortality One App at a Time	38	Sunday, 6pm	2
Core Facility	Dyer, David	The OK-INBRE Bioinformatics Core Facility	39	Sunday, 6pm	2
Core Facility	Hall, Richard	Mannequin to patient intubation: Does it translate?	40	Sunday, 6pm	2
Core Facility	Katz, Wendy	Optimizing benefits of a core facility: Counseling clients for design and analysis of indirect calorimetry experiments	41	Sunday, 6pm	2
Core Facility	Moore, Michael	OSCAR Imaging Facility at Delaware State University	43	Sunday, 6pm	2
Core Facility	Primerano, Donald	Marshall University Genomics and Bioinformatics Core: Next Generation Sequencing Applications and Bioinformatic Resources	44	Sunday, 6pm	2
Core Facility	Sun, Qian-Quan	The Wyoming Sensory Biology COBRE	45	Sunday, 6pm	2
Core Facility	Takacs, James	Integrated Biomolecular Communication: Building tools and unraveling mechanisms	46	Sunday, 6pm	2
Core Facility	Bai, Shasha	The Innovative Tools Developed by the Biostatistics and Informatics Core of the Center for Childhood Obesity Prevention	35	Monday, 5pm	3
Core Facility	Byrum, Stephanie	NIH COBRE Center for Translational Pediatric Research Systems Biology Bioinformatics Core Services	36	Monday, 5pm	3
Core Facility	Eudy, James	University of Nebraska DNA Sequencing Core Facility	38	Monday, 5pm	3
Core Facility	Hemme, Christopher	Bioinformatics, 3D Visualization and Metrics Tracking at Rhode Island INBRE	39	Monday, 5pm	3
Core Facility	King, Benjamin	Maine INBRE Bioinformatics Core	40	Monday, 5pm	3
Core Facility	Nagamoto-Combs, Kumi	A Behavioral Research Core Facility Provides Advanced Tools Essential for Phenotypic Characterization in Rodent Behavior	41	Monday, 5pm	3
Core Facility	Tan, Wei	Lessons Learned with a Virtual Cellular Isolation and Analysis Core	42	Monday, 5pm	3
Core Facility	Ragavendran, Ashok	Brown University Computational Biology Core of the Center for Computational Biology of Human Disease	43	Monday, 5pm	3
Core Facility	Tillett, Richard	Restructuring Nevada INBRE Bioinformatics	44	Monday, 5pm	3
Core Facility	Wang, Tao	NDSU Center for Protease Research Core Biology Facility Supports Regional Biomedical Research	45	Monday, 5pm	3
Core Facility	Zhang, Kurt	North Dakota INBRE Bioinformatics Core Facility	46	Monday, 5pm	3
Core Facility	Borsheim, Elisabet	Arkansas Center for Childhood Obesity Prevention: METABOLISM CORE	38	Monday, 6pm	4
Core Facility	Caradonna, Peter	Histology and Imaging Core Services at the University of New England	39	Monday, 6pm	4
Core Facility	Grigsby, Ryan	Equipment and Services of the Ralph N. Adams Institute COBRE Core Nanofabrication Facility	40	Monday, 6pm	4
Core Facility	Hall, Richard	Telemedicine to reduce infant mortality in a Native American population	41	Monday, 6pm	4
Core Facility	Lam, Ying Wai	Vermont Genetics Network Proteomics Facility	43	Monday, 6pm	4
Core Facility	Otero-Cruz, Jose	Neuroimaging and Electrophysiology Facility at the University of Puerto Rico	44	Monday, 6pm	4
Core Facility	Shippy, Teresa	Kansas INBRE Bioinformatics Core	45	Monday, 6pm	4
Core Facility	Tucker, Kerry L.	Rodent Behavior Core Service Facility at the University of New England	48	Monday, 6pm	4
Core Facility	Velasquez, Sarah E.	K-INBRE Communications Core: Activities & Assessment	49	Monday, 6pm	4
Core Facility	Velasquez, Sarah E.	K-INBRE Undergraduate Coordinator Office: Activities & Impact	50	Monday, 6pm	4
Core Facility	Wang, Yongjun	The Biomedical and Obesity Research Core-UNL	51	Monday 6pm	4
Core Facility	Boukari, Hacene	The OSCAR Imaging Facility: from one microscope to iLab reservation	35	Tuesday, 8am	5

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Core Facility	Deng, Bin	Applications of Matlab in Proteome Data Visualization and Simulation of Protein Function Research	36	Tuesday, 8am	5
Core Facility	Korneva, Guzeliya	Bioengineering and Bioimaging Core of the NIH SCBioCRAFT COBRE Center	37	Tuesday, 8am	5
Core Facility	Gu, Huanzhong (Dan)	NDSU Center for Visual and Cognitive Neuroscience (CVCN) Core Facilities: Technical Services Core	38	Tuesday, 8am	5
Core Facility	Johnson, Jeffrey	NDSU Center for Visual and Cognitive Neuroscience (CVCN) High-Density EEG/Neurostimulation Core Facility	39	Tuesday, 8am	5
Core Facility	Mackintosh, Samuel	IDEA National Resource for Proteomics	40	Tuesday, 8am	5
Core Facility	Palys, Thomas	The COBRE Center of Molecular Epidemiology Biorepository Core at Dartmouth: A Partner with the Environmental influences on Child Health Outcomes (ECHO) Program	41	Tuesday, 8am	5
Core Facility	Dirusso, Concetta	Biomedical Research Excellence in Nebraska	42	Tuesday, 8am	5
Core Facility	Singh, Narendra	Resveratrol protects experimental Staphylococcus aureus enterotoxin B-induced acute liver injury by regulating microRNAs associated with myeloid-derived suppressor cells	43	Tuesday, 8am	5
Core Facility	Urschitz, Johann	The University of Hawaii	44	Tuesday, 8am	5
Core Facility	Zhang, Zhaojie	Connecting Microscopy Techniques to Daily Life Experiences for Better and More Effective Training	45	Tuesday, 8am	5
Core Facility	Mudgapalli, Ashok	Nebraska INBRE and Great Plains IDEA-CTR Cyberinfrastructure	46	Tuesday, 8am	5
Genetics, Omics	Aromiwura, Afolasayo	Characterization of Antibodies Against Two Basement Membrane Degraders Reveal Their Tissue Specific Expression in Drosophila melanogaster	45	Sunday, 5pm	1
Genetics, Omics	Basgall, Erianna	Gene drive inhibition by the anti-CRISPR proteins AcrIIA2 and AcrIIA4 in Saccharomyces cerevisiae	46	Sunday, 5pm	1
Genetics, Omics	Benny, Paula	Differential placenta microbiome profiles are associated with maternal pre-pregnancy BMI in a multi-ethnic cohort	47	Sunday, 5pm	1
Genetics, Omics	Denvir, James	Whole Exome Sequencing in Neonatal Opioid Withdrawal Syndrome Mother-Infant Dyads	48	Sunday, 5pm	1
Genetics, Omics	Han, Mira	Transcriptome analysis reveals negative correlation between mitochondrial genes and transcripts of L1HS, and positive correlation between KRAB-ZFPs and older LINE elements in normal somatic tissue	49	Sunday, 5pm	1
Genetics, Omics	Maunakea, Alikea	Delay in the developmental trajectory of intragenic DNA methylation underlies altered pre-mRNA splicing in autism spectrum disorders	50	Sunday, 5pm	1
Genetics, Omics	Ridder, Jared	RNA Interference of the Unfolded Protein Response in Acyrthosiphon pisum	53	Sunday, 5pm	1
Genetics, Omics	Weingartner, Kyler	Metabolic Flux of Rhamnose in Arabidopsis	54	Sunday, 5pm	1
Genetics, Omics	Beck, Samuel	Implications of CpG islands on chromatin architectures and modes of global gene regulation	48	Sunday, 6pm	2
Genetics, Omics	Marrero, Emilette	Metabolic side effects associated with acute olanzapine treatment	49	Sunday, 6pm	2
Genetics, Omics	Hwang, Jae Yeon	RBP Motif Enrichment Analysis of Alternative Splicing Events in Arsenic-induced Skin Cancer	50	Sunday, 6pm	2
Genetics, Omics	Dragon, Julie	Evaluation of RNA sequencing methods for use with Formalin-Fixed, Paraffin-embedded (FFPE) tissue samples.	51	Sunday, 6pm	2
Genetics, Omics	Parker, Emily	Gene Expression Change Causes by Ophiocordyceps Sinensis and Ganoderum Lucidum in Rat Livers	53	Sunday, 6pm	2
Genetics, Omics	Wilbur, Sara	Tissue-specific telomere dynamics in hibernating arctic ground squirrels	55	Sunday, 6pm	2
Genetics, Omics	Peck, Ronald	Opsins in widely-distributed species inhibit an enzyme to promote synthesis of the retinal prosthetic group	56	Sunday, 6pm	2
Genetics, Omics	Gordon, Stuart	Analysis of the Antarctic Fish Notothenia coriiceps Gut Microbiome under Varying Anemic States	47	Monday, 5pm	3
Genetics, Omics	Chaabane, Mohamed	Circular RNA Detection from High-throughput Sequencing	48	Monday, 5pm	3
Genetics, Omics	Fultz, Brandy	Characterizing the role of Mcm10 in coordinating genome replication and checkpoint signaling pathways	49	Monday, 5pm	3
Genetics, Omics	Jia, Kaimin	Activity-based Substrate Profiling of Carcinogenic NTMT1	50	Monday, 5pm	3
Genetics, Omics	Parks, Caleb	Dynamic Structure Calculation of Proteins Using RDC Data and Machine Learning	53	Monday, 5pm	3
Genetics, Omics	Schiller, Martin	The New Personalized Medicine in Nevada COBRE	54	Monday, 5pm	3
Genetics, Omics	Woller, Sarah	Illuminating the functions of Pol2 variants of significant importance	55	Monday, 5pm	3
Genetics, Omics	Gummadidala, Phani	How does delta-9-tetrahydrocannabinol influence the C57BL/6 mouse metabolome?	56	Monday, 5pm	3
Genetics, Omics	Torres, Miguel	Identification of metabolic pathways and potential predictive biomarkers of antidepressants treatment using untargeted metabolomics	53	Monday, 6pm	4
Genetics, Omics	Gentry, Jared	Evaluation of the Trinity Software for De Novo Transcriptome Assembly with Synthetic Data	54	Monday, 6pm	4
Genetics, Omics	King, Benjamin	Non-Coding Regulatory Genes Expressed in Heart Regeneration	55	Monday, 6pm	4
Genetics, Omics	Smith, Sarai	Understanding the impact of prophage on mycobacterial host gene expression	56	Monday, 6pm	4
Genetics, Omics	Lusk, Hannah	Mapping of Arabidopsis Mutant with Lipid Alteration	57	Monday, 6pm	4
Genetics, Omics	Raza, Abbas	Genetic analysis of Bphse and Shs, novel loci controlling hypersensitivity to histamine in mice	58	Monday, 6pm	4
Genetics, Omics	Delavan, Brian	Pair Ranking Method for in vitro to in vivo Extrapolation	48	Tuesday, 8am	5
Genetics, Omics	Gorbatenko, Oxana	The effects of N-methyl-fluoxetine on the transcriptomic response of Trichophyton mentagrophytes	49	Tuesday, 8am	5

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Scientific Focus Area	Presenter	Title	Monitor	Day & Time	Poster Session
Genetics, Omics	Malik, Naveen	Bioinformatic Analysis of Candida glabrata Transcriptome following treatment with Thymoquinone	50	Tuesday, 8am	5
Genetics, Omics	Ussher, Lindsay	Macroglobulin complement-related is required for border cell migration in Drosophila melanogaster	52	Tuesday, 8am	5
Genetics, Omics	Rey, Mariah	Insertion sequences target specific locations in Halobacterium Salinarum NRC-1	53	Tuesday, 8am	5
Genetics, Omics	Thompson, Katherine	Using the Feasible Solutions Algorithm to Identify Combinations of Genetic Factors Associated with Multiple Sclerosis	54	Tuesday, 8am	5
Infectious Disease and Immunology	Alkarkoushi, Rasha	Enterohepatic Helicobacter species modulate severity of DSS-induced colitis but do not prevent amelioration by indole-3-carbinol	55	Sunday, 5pm	1
Infectious Disease and Immunology	Burdine, Marie	Inhibition of DNA-PK(cs), a Novel Regulator of the Immune System, Reduces Allogeic Skin Graft Rejection	57	Sunday, 5pm	1
Infectious Disease and Immunology	Gonzalez, Andres	Attenuation of respiratory disease by co-infection with unrelated viruses	58	Sunday, 5pm	1
Infectious Disease and Immunology	He, Susu	Structural study of transcriptional factor CifR regulating a virulence factor from Pseudomonas aeruginosa	59	Sunday, 5pm	1
Infectious Disease and Immunology	Kemp, Kyeorda	Inhibition of IRE1alpha in established TH2 cells results in reduced IL-5 and IL-13 secretion, but not IL-4	60	Sunday, 5pm	1
Infectious Disease and Immunology	Nag, Anita	Dissecting the mechanism of host shutoff by SARS coronavirus	61	Sunday, 5pm	1
Infectious Disease and Immunology	Sharma, Jyotika	Neutrophil Functions in acute and chronic inflammatory Diseases	62	Sunday, 5pm	1
Infectious Disease and Immunology	Neunuebel, Ramona	Intracellular Pathogen Survival: Hacking Into Host Vesicular Transport Pathways	63	Sunday, 5pm	1
Infectious Disease and Immunology	Seo, Keun Seok	Suboptimal stimulation with staphylococcal enterotoxin C1 induces immunosuppressive CD4+CD25+ regulatory T cells by differential expression of FOXP3 isoforms	64	Sunday, 5pm	1
Infectious Disease and Immunology	Wesel, Jordan	The Role of Glycogen in the Adaptive Metabolism of Entamoeba Histolytica	66	Sunday, 5pm	1
Infectious Disease and Immunology	Nansel, Sara	Isolation of Antimicrobial Properties Against the E.S.K.A.P.E. Pathogen Relatives and Two E.S.K.A.P.E. Pathogens from Soil Microbes	67	Sunday, 5pm	1
Infectious Disease and Immunology	Yauch, Katelyn	The Potential Role of FTL_0893 in Host Cell Infection by Francisella tularensis	68	Sunday, 5pm	1
Infectious Disease and Immunology	Ayoola, Moses	Impact of Impaired Polyamine Biosynthesis on Streptococcus Pneumoniae Tigr4 Gene Expression	57	Sunday, 6pm	2
Infectious Disease and Immunology	Chooback, Lilian	Dihydrodipicolinate synthase and antibiotic drug design	58	Sunday, 6pm	2
Infectious Disease and Immunology	Huber, Christopher	Studying the PA01 Attachment Mechanism on Silica Surfaces Via Surface Enhanced Raman Spectroscopy	59	Sunday, 6pm	2
Infectious Disease and Immunology	Kennedy, Joshua	TRI Reagent is comparable to standard methods in extracting proteins from human precision cut lung slices for use in proteomics.	60	Sunday, 6pm	2
Infectious Disease and Immunology	Nakama, Mary Frances	The impact of impaired cadaverine biosynthesis on the transcriptome of Streptococcus pneumoniae TIGR4	61	Sunday, 6pm	2
Infectious Disease and Immunology	Gabriel, Benjamin	Immune repertoire analysis of HIV exposed uninfected Kenyan infants	62	Sunday, 6pm	2
Infectious Disease and Immunology	Nansel, Sara	Antimicrobial Properties Against the E.S.K.A.P.E. Pathogen Relatives Isolated from Soil Microbes	63	Sunday, 6pm	2
Infectious Disease and Immunology	Park, Joo Youn	Metabolic adaptation of S. aureus in diabetes leading to diabetic foot ulcer	64	Sunday, 6pm	2
Infectious Disease and Immunology	Shack, Leslie	Impact of Impaired Polyamine Transport on Streptococcus Pneumoniae	65	Sunday, 6pm	2
Infectious Disease and Immunology	Yeruva, Laxmi	Transcriptome analysis of ileum reveals persistent effects of neonatal diet	69	Sunday, 6pm	2
Infectious Disease and Immunology	Bader, Jackie	Macrophage depletion results in anemia, neutrophilia, and is not an effective therapy for rescuing obesity-linked metabolic impairments	57	Monday, 5pm	3
Infectious Disease and Immunology	Collins, Elliot	Immunostimulatory Activity of Dillapiole Isolated from Fennel Root	59	Monday, 5pm	3
Infectious Disease and Immunology	Ijezie, Emmanuel	Rhinovirus Curtails Disease Pathology during Respiratory Viral Co-Infection	60	Monday, 5pm	3
Infectious Disease and Immunology	Landes, Emma	Candida She3 protein interactions reveal divergence from Saccharomyces She3 mRNA-transport complexes	61	Monday, 5pm	3
Infectious Disease and Immunology	Dube, Danielle	Discovery of genes required for glycoprotein biosynthesis in the gastric pathogen Helicobacter pylori	62	Monday, 5pm	3
Infectious Disease and Immunology	Chockalingam, Prem	Sequence analysis of SCov RNA to understand RNA stabilization during nsp1 mediated host shutoff	63	Monday, 5pm	3
Infectious Disease and Immunology	Singh, Udai	Adipose T cell microRNAs influence the T cell expansion, microbiome and macrophage function during obesity	65	Monday, 5pm	3
Infectious Disease and Immunology	Whaby, Michael	Role of FTL_1306 in Francisella tularensis susceptibility to rezazomycins	68	Monday, 5pm	3
Infectious Disease and Immunology	Youngblood, Cheyanne	Potential for FKBP11/FKBP19 to regulate type II cytokine expression in TH2 cells	69	Monday, 5pm	3
Infectious Disease and Immunology	Bender, Savannah	Examination of small intestine mucosal immunity after blocking IL-2 signaling at birth	60	Monday, 6pm	4
Infectious Disease and Immunology	Chooback, Lilian	Protein Purification and X-ray Crystallography of Histidine-tagged DapD	61	Monday, 6pm	4
Infectious Disease and Immunology	Cox, Heather	Testing the Antibiotic Activity of Flathead Valley Flora and Fungi	62	Monday, 6pm	4
Infectious Disease and Immunology	Jeanty, Merlyne	MicroRNA-34a regulation of mast cell activation by sphingosine-1- phosphate in pre-symptomatic atopic dermatitis	63	Monday, 6pm	4
Infectious Disease and Immunology	Mistri, Somen	Limited TCR delta chain diversity in mouse lung Vβ4 ^{hi} T cell population	64	Monday, 6pm	4
Infectious Disease and Immunology	Nawarathne, Irosha	Development of Key Rifamycin Analogues to Target Prevalent Multi-Drug Resistant Mycobacterium tuberculosis	65	Monday, 6pm	4
Infectious Disease and Immunology	Payne, Barbara	HIV-exposed uninfected Kenyan infants are born with elevated levels of interleukin(IL)-8, IL-6 and IL-21 compared to HIV unexposed infants	66	Monday, 6pm	4
Infectious Disease and Immunology	Sarkar, Sutapa	Andrographolide attenuates Fibrotic Liver Injury	68	Monday, 6pm	4

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Scientific Focus Area	Presenter	Title	Monitor	Day & Time	Poster Session
Infectious Disease and Immunology	Starr, Marlene	Age-associated expansion of gamma delta-T cells promotes visceral adipose tissue inflammation	69	Monday, 6pm	4
Infectious Disease and Immunology	Wiley, Alex	Synthesis and Evaluation of Lipid A Inhibitors on Gram-Negative Bacteria	70	Monday, 6pm	4
Infectious Disease and Immunology	Zhang, Yuan	Nonviral delivery of RNA-based HIV vaccines	73	Monday, 6pm	4
Infectious Disease and Immunology	Bivona, Joseph	Functional characterization of lncRNA U90926 in macrophages	55	Tuesday, 8am	5
Infectious Disease and Immunology	Foster, Timothy	Therapeutic Modulation of Amino Acid Metabolism Pathways for Treatment of Infectious-, Inflammation- and Pathological Vascularization-Associated Diseases	59	Tuesday, 8am	5
Infectious Disease and Immunology	Johnson, Hannah	Synthesis and Evaluation of N-Methylfluooxetine derivatives on Plasmodium falciparum	60	Tuesday, 8am	5
Infectious Disease and Immunology	Moore, Cayla	Hydrocortisone Decreases the Proliferation Rate and Increases Antibiotic Resistance of Streptococcus pneumoniae	61	Tuesday, 8am	5
Infectious Disease and Immunology	Powell, Raser	Antibiotic Potential of Flathead Valley Fungi and Flora	62	Tuesday, 8am	5
Infectious Disease and Immunology	Hodge, Zachary	Utilization of Click Chemistry to Modify Hydroxynaphthoquinone Scaffolds to Develop Efficacious Drug Leads	63	Tuesday, 8am	5
Infectious Disease and Immunology	Schmitt, Deanna	Identification of Potential Targets of Resazomycins, A Novel Family of Antibiotics	64	Tuesday, 8am	5
Infectious Disease and Immunology	Sharp, Aaron	Determination of bacterial inhibition by antibiotic molecule X	65	Tuesday, 8am	5
Infectious Disease and Immunology	Soucy, Ashley	Regulation of JCPyV Infection by IP3R-Mediated ER Ca ²⁺ Release	66	Tuesday, 8am	5
Infectious Disease and Immunology	Won, Harim	Selective Activation of Early Bradyzoite Genes Drives Toxoplasma gondii Differentiation	68	Tuesday, 8am	5
Infectious Disease and Immunology, Cell Biology/Virology	Harries, Phillip	Is disruption of microfilaments required for the cell-to-cell spread of Tomato Bushy Stunt Virus?	66	Sunday, 6pm	2
Integrative Medicine	Boone, Steven	A frontotemporal dementia and motor neuron disease mouse model of TDP-43 proteinopathy	70	Sunday, 6pm	2
Integrative Medicine	Harrison, Brooke	Determining the Effects of Artificial Sweeteners on Weight in Rats	73	Sunday, 6pm	2
Integrative Medicine	Pollack, Sean	Chickpeas as an Alternative and Inexpensive Source for Maintaining Human Health	70	Monday, 5pm	3
Neuroscience	Alpizar, Scott	Distinct subsets of presynaptic K ⁺ channels modulate frequency-dependent synaptic transmission in excitatory and inhibitory hippocampal neurons independent of net calcium influx	69	Sunday, 5pm	1
Neuroscience	Crenshaw, Jeremy	Development of a comprehensive evaluation of postural control in children with cerebral palsy	70	Sunday, 5pm	1
Neuroscience	Gitcho, Michael	TDP-43 interacts with mitochondrial proteins critical for mitophagy and mitochondrial dynamics	73	Sunday, 5pm	1
Neuroscience	Lampton, Bailey	Characterization of the Effect of Melatonin on Neuronal Processes of C. elegans	74	Sunday, 5pm	1
Neuroscience	Mishra, Virendra	Novel diffusion-derived biomarkers in Parkinson's disease with and without freezing of gait	75	Sunday, 5pm	1
Neuroscience	Mishra, Virendra	Cortico-striatal-brainstem structural connectivity patterns in in Parkinson's disease with and without freezing of gait	77	Sunday, 5pm	1
Neuroscience	Panzer, Lauren	The Action Potential as a Modulator of Synaptic Transmission	78	Sunday, 5pm	1
Neuroscience	Ritter, Aaron	The Clinical Core of the Center for Neurodegeneration and Translational Research: A Novel Approach to the Study of Alzheimer's and Parkinson's Disease	79	Sunday, 5pm	1
Neuroscience	Stanhope, Meredith	Modulation of the cardiac neuromuscular system of the American lobster, Homarus americanus, by differentially processed forms of the neuropeptide myosuppressin	80	Sunday, 5pm	1
Neuroscience	Troyano Rodriguez, Eva	Neuroigin-2 is Required for Excitation-Inhibition Balance in the Lateral Septum to Optimize Stress-Induced Neuronal Activation and Avoidance Behavior	81	Sunday, 5pm	1
Neuroscience	Anderson, Ashley	The Neuroprotective Role of VDAC1 in Alzheimer's Disease	74	Sunday, 6pm	2
Neuroscience	Bluett, Brent	Discrepancy in freezing of gait measurements: self-report, clinical, and physical therapy assessments	75	Sunday, 6pm	2
Neuroscience	Finnell, Julie	High mobility group box-1 as a putative ovarian hormone dependent mechanism mediating stress susceptibility in cycling females	78	Sunday, 6pm	2
Neuroscience	Johnson, Lance	Metabolic Reprogramming and Alzheimer's Disease Risk: The Role of Apolipoprotein E4	79	Sunday, 6pm	2
Neuroscience	Leisgang, Amanda	GABA specific changes in a mouse model of Alzheimer's disease	80	Sunday, 6pm	2
Neuroscience	Perez Carambot, Marizabeth	Maintaining Neuronal Function: The Role of the Transcription Factor Gooseberry in Synaptic Growth, Stability and Plasticity.	81	Sunday, 6pm	2
Neuroscience	Kennedy, Andrew	Targeting the Tet Enzymes to Enhance Cognition	82	Sunday, 6pm	2
Neuroscience	Santoro, Stephen	Sex separation induces differences in the olfactory sensory receptor repertoires of male and female mice	83	Sunday, 6pm	2
Neuroscience	Sun, Jianli	Cell Electrophysiology Core of Delaware Center for Neuroscience Research	84	Sunday, 6pm	2
Neuroscience	Ahmad, Tariq	Proteomic analysis of expression of mutant CHMP2B associated with Frontotemporal Dementia	76	Monday, 5pm	3
Neuroscience	Froemer, Romy	Differential temporal contributions of overall set value and value difference in value based decisions	77	Monday, 5pm	3
Neuroscience	Kakraba, Samuel	Identifying Novel Drugs for Treatment of Neurodegenerative Diseases by Quantitative Structure-Activity Relationships Approach	78	Monday, 5pm	3
Neuroscience	Matyi, Melanie	Identifying Brain Regions Supporting Amygdala Function: A Complex Network Perspective	79	Monday, 5pm	3
Neuroscience	Mortimer, Sierra	The Q neuroblast transcriptome reveals novel transcription factors involved in Q descendant migration.	80	Monday, 5pm	3

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Neuroscience	Police, Anitha	Anandamide topical delivery for management of pain	81	Monday, 5pm	3
Neuroscience	Shankar, Vijay Kumar	Silymarin effects on Glucose induced Retinal Neuronal Toxicity	83	Monday, 5pm	3
Neuroscience	Tamaki, Masako	REM sleep facilitates post-sleep visual perceptual learning (VPL) by eliminating anterograde interference from pre-sleep VPL	84	Monday, 5pm	3
Neuroscience	Waterman, Amanda	Cell-specific visualization of D2-like dopamine receptors in a circuit required for alcohol seeking.	85	Monday, 5pm	3
Neuroscience	Cheng, Yan	Genetic profiling of salivary vesicles reveals potential biomarkers to detect mild TBI	75	Monday, 6pm	4
Neuroscience	Garcia-Rill, Edgar	Center for Translational Neuroscience, 14+ years later	77	Monday, 6pm	4
Neuroscience	Khalid-Janney, Christopher	Astrocyte specific expression of TDP-43 alters memory and increases anxiety	78	Monday, 6pm	4
Neuroscience	Mckim, Theresa	Reward modulates abstract sequence monitoring dynamics in the rostralateral prefrontal cortex and striatum	79	Monday, 6pm	4
Neuroscience	Moynihan, Jack	Determining the role of semaphorins in injury-induced compensatory growth in adult Gryllus bimaculatus	80	Monday, 6pm	4
Neuroscience	Richard, Philomena	Effects of gut-microbiome modulation on rheumatoid and osteoarthritis pain-depressed behaviors and bone/joint pathology in Lewis and Fisher rats	81	Monday, 6pm	4
Neuroscience	Ou, Xiawei	C-section Delivery Impacts Infant Brain Development	82	Monday, 6pm	4
Neuroscience	Smith, Nicholas	Milk Allergy Induces Behavioral Changes Associated with Inflammation and Gene Regulation in the Brain	83	Monday, 6pm	4
Neuroscience	Thyagarajan, Baskaran	Target Site-Specific Therapeutics to Treat Noxious Pain	84	Monday, 6pm	4
Neuroscience	Willett, Kristie	Using Zebrafish for Epilepsy Drug Discovery	85	Monday, 6pm	4
Neuroscience	Bluett, Brent	The Relationship Between Inhibitory Control and Freezing of Gait in Parkinson's Disease	69	Tuesday, 8am	5
Neuroscience	Bluett, Brent	Effect of levodopa on fronto-parietal network connectivity in freezing of gait in Parkinson's disease	70	Tuesday, 8am	5
Neuroscience	Shuttleworth, C. William	UNM Center for Brain Recovery and Repair (CBRR)	71	Tuesday, 8am	5
Neuroscience	Ghezzi, Alfredo	Epigenetic control of long-term drug neuroadaptation	73	Tuesday, 8am	5
Neuroscience	Kinney, Jefferson	Effects of hyperglycemia in the APP/PS1 mouse model of Alzheimer's disease	74	Tuesday, 8am	5
Neuroscience	Miquelajaregui, Amaya	Origin and Migration of Olfactory Cajal-Retzius Cells	75	Tuesday, 8am	5
Neuroscience	Walters, Joseph	Elongator Function in the Anterior Pituitary and its Relevance to Familial Dysautonomia	77	Tuesday, 8am	5
Neuroscience	O'Toole, Ryan	A Synaptic Tag for Mapping Activity	78	Tuesday, 8am	5
Neuroscience	Ritter, Aaron	A Novel Approach to Recruitment for Alzheimer's Disease Research Studies: The Experience of the Center for Neurodegeneration and Translational Neuroscience (CNTN)	79	Tuesday, 8am	5
Neuroscience	Soto Diaz, Katiria	EGR-4 as a key for regeneration and cell differentiation in Alzheimer patients	80	Tuesday, 8am	5
Neuroscience	Williams, Dionne	The Neuroprotective Effects of SUMO Conjugase, Ubc9, in Dopaminergic Cells and Neurons	81	Tuesday, 8am	5
Other-Addiction Medicine	Meinhardt, Alexa	Hospitalized Patients with Substance Use Disorder Analysis	83	Sunday, 5pm	1
Other-Antibiotic Resistance	Craddock, Vaughn	Adaptations of Pseudomonas aeruginosa Evolved in Aminoglycoside Antibiotics	82	Sunday, 5pm	1
Other-Behavioral and Environmental Sciences	Jimenez, Jamie	Reliability of New Ecological Paradigm Scale version for children in Spanish (NEP- \bar{A}) with a sample of students (8-13 years) in Puerto Rico	87	Monday, 5pm	3
Other-Biochemistry	Johnson, Josiah	Exploring Efficient Methods For Protein Production In An Undergraduate Lab Setting	87	Monday, 6pm	4
Other-Biochemistry, basic cell biology	Katzenell, Sarah	Birds of a feather: the yeast mitophagy receptor Atg32 flocks together	88	Monday, 5pm	3
Other-Bioinformatics workshop	Thomas, W. Kelley	Incorporating Bioinformatics Into the Undergraduate Biology Curriculum	86	Sunday, 6pm	2
Other-Bioinformatics/ Computational Biology	Mcfarland, Devaun	Applying MSTALI to Active Site Identification Studies	88	Monday, 6pm	4
Other-Biology	Hoins, Jaysa	Pseudomonas aeruginosa Attachment to Different Substrates	89	Monday, 6pm	4
Other-Biophysics	Gunderson, Julie	Single-Molecule Studies Reveal Discrete Conformational Dynamics in Three-Way DNA Junctions	88	Sunday, 6pm	2
Other-Biophysics	O'Connor, Kyle	Quantitative Binding Analysis of Mn2+ to DNA Hairpin Loops	89	Monday, 5pm	3
Other-Biophysics	Russell, Harrison	Quantitative Binding of Divalent Metal Ions to DNA Hairpin Loops	90	Monday, 5pm	3
Other-Biophysics	Gunderson, William	Spectroscopic Characterization of Divalent Metal Ion Binding to DNA Hairpin Loops	91	Monday, 5pm	3
Other-Bone Pathophysiology	Xiong, Jinhu	Mechanical signals activate YAP/TAZ in part via Piezo1	84	Tuesday, 8am	5
Other-Cell and Molecular Biology	Arizala, Genardine	Assessment of Osmotic Stress Tolerance in Claudin Deficient C. elegans Roundworms	93	Monday, 5pm	3
Other-Cell Biology	Phillips, Gabrielle	Characterization of the in-vivo functions of putative lysoglycerophospholipid acyltransferase in Arabidopsis thaliana	94	Monday, 5pm	3
Other-Cellular and Molecular	Shrestha, Lisa	Synergistic Effects of Proteasomal and Lysosomal Enzyme Inhibitors on Plasma Membrane CFTR	95	Monday, 5pm	3
Other-Childhood obesity prevention	Thomsen, Michael	Fresh Fruit and Vegetable Program Participation is Associated with Lower 2nd Grade Body Mass Index	85	Tuesday, 8am	5
Other-Chronoastrobiology	Washington, Brien	Physiological Effects of Space Weather	87	Tuesday, 8am	5
Other-Community Engagement	Acosta-Perez, Edna	Opportunities for Long-lasting Relationships in Science and Health: Researchers and Communities.	97	Monday, 5pm	3
Other-Development	Gibson, Mallory	The role of wingless 4 (WNT4) in uterine decidualization	90	Monday, 6pm	4
Other-Development of Environmental Remediation Technology	Houston, Kelton Houston	Synthesis and Characterization of [M(PDTC)Lx] Coordination Compound Series	88	Tuesday, 8am	5

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Other-Developmental Biology	Powers, Nathan	The roles of JAK/STAT signaling and a basement membrane-associated protein during air sac primordium development in <i>Drosophila</i>	89	Tuesday, 8am	5
Other-Education	Miller, Kellyann	Project-based biology courses in a typical STEM sequence	89	Sunday, 6pm	2
Other-Environmental Epidemiology	Romano, Megan	Perfluoroalkyl Substance Mixtures and Gestational Weight Gain	85	Sunday, 5pm	1
Other-Evaluation	Smith, Christine	Evaluating INBRE Outcomes: A Multiple Group Comparison Approach	91	Tuesday, 8am	5
Other-Evaluation and Assessment	Marchand, Gwen	Assessing Collaborative Interactions within a COBRE Funded Research Center	98	Monday, 5pm	3
Other-Evaluation research	Stone, Ramona	Evaluation of the KY-INBRE Undergraduate Student Learning Outcomes	90	Sunday, 6pm	2
Other-Faculty workshops produced by Bioinformatics Core	Miller, Sherry	Bioinformatics Training: Faculty Focused Workshops	99	Monday, 5pm	3
Other-General Biomedical Sciences	Clayton, Erin	Chronically elevated glucose levels result in beta cell dysfunction through oxidative-stress mediated transcriptional downregulation of transcription factor Glis3	87	Sunday, 5pm	1
Other-Graduate education	Vanderford, Nathan	Preparing Future Professionals: A Career Development Course to Enhance Workforce Readiness	91	Sunday, 6pm	2
Other-Hematopoietic stem cell biology	Goldberg, Laura	Hematopoietic stem cells exist in the primary sorted lineage positive population of murine marrow.	93	Tuesday, 8am	5
Other-Host/microbe symbiosis	Medlock, Shannon	Relative influence of maternal milk and gut microbiotas on offspring gut microbial communities in arctic ground squirrels	95	Tuesday, 8am	5
Other-Medicinal Chemistry	Anderson, Kurtis	Progress Toward the Synthesis of Phidianidine Analogues	91	Monday, 6pm	4
Other-Medicinal Tobacco Plants	Dayzie, Daryline	Community-Based Research on Navajo (DinĀ©) Nation Homelands: Combining Traditional Knowledge and Scientific Observations of Medicinal Tobacco plants	96	Monday 5pm	3
Other-Membrane physics	Yang, Lewen	Identification of Two New Cholesterol Interaction Sites on the A2A Adenosine Receptor	88	Sunday, 5pm	1
Other-Microbiology, not infectious disease	Luterek, Dillon	Antibiotic Producing Bacteria from Texas Soils	92	Monday, 6pm	4
Other-Microbiology, not infectious disease	Plymale, Ruth	Natural Antibiotics Produced by Nutrient-Limited Non-Actinomycete Soil Bacteria	96	Tuesday, 8am	5
Other-Nuclear structure, chromatin	Gould, Travis	Quantifying Condensation of Chromatin in HL-60/S4 Cells	86	Sunday, 5pm	1
Other-Obesity Prevention	Swindle, Taren	Application of Evidence-Based Quality Improvement to design implementation strategies for nutrition promotion in childcare	93	Monday, 6pm	4
Other-Oral Health	Lambert, Joshua	Exploring Effect Modifiers Related to Periodontal Diseases Using Data From NHANES	89	Sunday, 5pm	1
Other-Organic Chemistry	Owens, Hannah	Evaluating Scope of Enantioselective Copper Photoredox Catalysis	90	Sunday, 5pm	1
Other-Osteoporosis pathophysiology	Ambrogini, Elena	An Antibody against Oxidized Phospholipids Promotes Bone Anabolis	91	Sunday, 5pm	1
Other-Oxidative Stress	Leier, Jacob	Examination of Substrate Inhibition in Mitochondrial Aldehyde Dehydrogenase 2 (ALDH2) at Physiological Concentrations of Magnesium Ion	93	Sunday, 5pm	1
Other-Patient-centered Care/ Chronic Kidney Disease	Archinal, Holly	Research Matters: Engaging Stakeholders to Identify Patient-Centered Research Questions	94	Monday, 6pm	4
Other-Pediatric Clinical Trials	Snowden, Jessica	Capacity Building in the IDeA States' Pediatric Clinical Trial Network	94	Sunday, 5pm	1
Other-Physiology & Space Weather	Washington, Brien	Physiological Effects of Space Weather	92	Sunday, 6pm	2
Other-Physiology and metabolism; Tissue engineering and cancer	Pias, Sally	Air ducts for cells: Evidence for lipid-based pathways of oxygen diffusion	95	Monday, 6pm	4
Other-Program Evaluation and Assessment	Velasquez, Sarah E.	Evaluation of K-INBRE Impact on Undergraduate Student Experience via Entrance and Exit Surveys	100	Monday, 5pm	3
Other-Public Health	James, Aironese	Investigating the Socio-Economic Factors of Birth Defects Among Children in Mississippi	94	Sunday, 6pm	2
Other-Public Health	Badgett, Kambria	Is Your Friendzone Beneficial? The Influence of Social Support Oon Body Image, Optimism, and Sexual Practices.	96	Monday, 6pm	4
Other-Radiation-induced gut injury	Pathak, Rupak	Shear-responsive Kruppel-like factor 2 (KLF2): A novel radiation target is suppressed in the mouse intestine	95	Sunday, 6pm	2
Other-Reproductive Physiology	Bailey, Sarah	An analysis of peptidylarginine deiminase (PAD) activity in the murine estrus cycle	98	Tuesday, 8am	5
Other-skeletal biology	Iyer, Srividhya	Excessive UPR in osteoblasts and osteocytes stimulates RANKL expression and bone resorption	95	Sunday, 5pm	1
Other-Solvent-Free Organic Synthesis	Cooper, Dekeysha	Solvent-Free Synthesis of Stilbene Derivatives	100	Tuesday, 8am	5
Other-Stem cell	Wen, Sicheng	Reversal Marrow Stem Cells Injury by Mesenchymal Stem Cell Derived Vesicles	99	Sunday, 5pm	1
Other-STEM Education	Shuman, Kevin	The Wesley College Cannon Scholar Program Improves the Retention and Success of STEM Majors	98	Monday, 6pm	4
Other-Structural Biology	Xia, Xue	A Pseudo-Receiver Domain in Atg32 is Required for Mitophagy	99	Monday, 6pm	4
Other-Toxicology	Nelson, Ashlee	Comparative Embryonic Mutation and Mortality Responses to Chronic Cadmium Exposure	100	Monday, 6pm	4
Other-Undergraduate research in organic chemistry	Wirick, Jeremy	Will a change in the leaving group affect the rate and/or the mechanism of ROCOX solvolytic reactions?	100	Sunday, 6pm	2