

<b>Submission ID</b>	<b>Title</b>	<b>Assignment</b>	<b>Number</b>	<b>First Name</b>	<b>Last Name</b>
121	New FRET-based “turn on” Nanosensor for Selective and Sensitive Detection of Arginine using CdTe/MPA QDs as Energy Donors	ANA	001	Doris	Ramirez
132	Novel Functionalization of Oxide-Free Silicon Surfaces for ALD Growth of High k Dielectrics	ANA	002	Jasmine	Daniels
134	fMRI Analysis of Hemispheric Activation in Two Narrative Production Tasks	ANA	003	Kenya	Thomas
155	Particle Lithography of Octadecyltrichlorosilane Nanostructures for the Deposition of Gold and Silver Nanoparticles for Electronic Sum-Frequency Generation	ANA	004	Ashley	taylor
166	High Throughput Sieving Electrophoresis of Proteins Using Silica Colloidal Crystals	ANA	005	Tamika	Ragland
172	Analysis of Trace/Macro Elements Concentrations of Dead Sea Water by Flame Atomic Absorption Spectroscopy	ANA	006	LaVana	Greene
174	Real-time Imaging with Atomic-level Spatial Resolution of Silicon Oxidation	ANA	007	Bryan	Wiggins
224	Using the observations of black carbon and trace gases in the Baltimore Washington Metropolitan Area to better quantify origins and impact on climate	ANA	008	Courtney	Grimes
237	Fabrication and Characterization of Ultrafiltration Membrane with PSf-SPEES/PES Via Phase Inversion	ANA	009	Krisnar	Corrales
243	An Investigation into Optimizing Glucose Biosensing	ANA	010	Chatney	Spencer
257	Investigation for the feasibility of electrochemically modulated separation of dysprosium	ANA	011	Ever	Velasquez
262	IDENTIFYING FUNCTIONAL GROUP CHARACTERISTICS OF ATRAZINE DEGRADING PSEUDOMONAS SP. STRAIN ADP BIOFILM	ANA	012	Victoria	Henry
272	Detection and extraction of viruses in large volumes using silica and titania fibers	ANA	013	Luis	Jimenez
298	Study release of volatile compounds mixed with dendrimers by Infrared spectroscopy	ANA	014	Clarissa Arlyn	Lopez Cuadras

320	Synthesis and optical properties of naphthalenediimides boronic acids: A new colorimetric and fluorescent fluoride sensor	ANA	015	Ernesto	Solis
282	Characterization of a Micro-fabricated thin-film spectroelectrochemical sensor for the detection of technetium	ANA	016	Shirmir	Branch
305	Detection of carbonyl compounds in E-cigarette vapor	ANA	018	Mumiye	Ogunwale
196	Preliminary Assessment of Volatile Organic Compounds in Indoor Parking Facilities in the Houston Metro Area	ANA	019	Raven	Reed
147	Hydrogen-bonding effects on O-H stretch overtone excitation for fluorinated hydroperoxides	ANA	020	Asya	Tucker
341	Comparative Phase Study on Tungsten Carbides ( $\alpha$ -WC and $\beta$ -WC1-X) as an Electro-catalyst and as a Support for low Platinum loading In Direct Methanol Fuel Cells	ANA	021	olabode	AJENIFUJAH
1	Characterization of Eastern Red Cedar chemicals with Biological Activity	ANA	022	Roderquita	Moore
21	The nature of Extra Polymeric Substances (EPS) and their role in atrazine degradation	BIO	001	Mary	Nyaema
28	Examining position-dependent effects in G-quadruplex invasion and antisense inhibition by small gamma-PNA oligomers	BIO	002	Stanley	Oyaghire
37	Fabrication of Nanofibers for DNA Extraction	BIO	003	Marissa	Gionet-Gonzales
51	Investigating the Role of the $\pi$ -helix in the FMN Reductase of the Alkanesulfonate Monooxygenase System	BIO	004	Jonathan	Musila
65	Biochemical analysis of JNK and other upstream regulators of FOXO3a related to oxidative stress during embryonic development	BIO	005	Lauren	Walker
92	In Utero Exposure to 2-Aminoanthracene and the Link to Type-1 Diabetes	BIO	006	Christopher A	Mays
94	Examination of the Hepatic Effects in Dams that Ingested 2-Aminoanthracene during Gestation	BIO	007	Liam	Cavanaugh
106	Examining the Hepatic Response of Sprague Dawley Pups Associated with In Utero Exposure to 2-Aminoanthracene	BIO	008	Omowunmi Felici Fakorede	
114	The Effects of Humulus lupulus on SCC-25 and Human Gingival Fibroblasts	BIO	009	Justin	Sanders

115	Role of cell adhesion molecule, Integrin alpha 6 (ITGA6) in tumor metastasis and angiogenesis	BIO	010	Ashley	Williams
145	Poly( $\beta$ -amino ester) Drug delivery of Multiple siRNA to Brain Cancer Stem Cells	BIO	011	Marissa	Gionet-Gonzales
153	Fenton Reaction Damaging Effects on Biological Molecules: A Theoretical Study	BIO	012	Sharnek	Walker
161	The Use of Bovine Milk for the Generation of LacDiNAc (LDN) bearing N-glycans for the Chemienzymatic Synthesis of Schistosome-type Antigenic N-glycans.	BIO	013	Keilon	Robinson
163	Components of The Gut Microbiota and Effective ways of Culturing Gut Bacteria	BIO	014	Christian	Shema Mugisha
164	Effect of Curcumin on Endothelin-1 Mediated c-Jun Expression in Hippocampal Neurons	BIO	015	Victoria	Ubanyionwu
167	A Biomimetic Diversity-Oriented Approach to Azaspirene via Metal Carbenoid Chemistry	BIO	016	Arianne	Hunter
169	NOVEL BIOMARKERS FOR HIV-1 DISEASE PROGRESSION	BIO	017	Tracey	Taylor
171	One-Pot Multi-Enzyme Synthesis of TDP-L-Rha and derivatives	BIO	018	Kristina	Garner
176	A Mechanistic Investigation of the Origin of Reactivity and Stereoselectivity in Tandem Z-selective Cross Metathesis-coupled Reactions	BIO	019	William	Bell
185	Elucidating the mechanism of pH dependent gating of monomeric poring OmpG	BIO	020	Christina	Chisholm
187	Non-covalent Inhibitors: A Novel Way to Disrupt Beta-lactamase Activity	BIO	021	Orville	Pemberton
192	Synthesis of 2'-Deoxyuridine Glycol containing oligonucleotides as Probes of DNA Repair Glycosylases	BIO	022	JohnPatrick	Rogers
207	Structural Studies of Calreticulin via Protein NMR	BIO	023	Courtney	Thomas
211	ACUTE METHYLMERCURY EXPOSURE EFFECTS ON MRNA EXPRESSION OF GLUTAMATE RECEPTORS IN NSC34 CELLS	BIO	024	Neco	Wilson
215	Inhibition of Scavenger Receptors using Novel PEGylated Polylysine Peptides	BIO	025	Rondine	Allen

217	Phenotype expression of the transcription factor FlrA in Escherichia Coli	BIO	026	Christopher	Rhoades
223	Development of Melanoma 3D-Organoids: A New Preclinical Model for the Understanding and Treatment of Melanoma	BIO	027	Kiara	McDaniel
228	Senescent stromal cells induce tension mediated nuclear deformation	BIO	028	Ivie	Aifuwa
235	Identification of succinylation and SIRT5 as important regulators of heart function	BIO	029	Ornella	Nelson
239	DNA Sequences dictate the properties of the scaffolded silver nanoclusters	BIO	030	Keith	Cobb
271	Determining Kinetics of the Neisseria meningitidis serogroup W Capsule Polymerase	BIO	031	Cendy	Gonzalez
274	Chemoenzymatic Synthesis of a New Fluorescent Acceptor for Bacterial Glycosyltransferases	BIO	032	Ophelia	Ukaegbu
286	Identification of non-peptidic cysteine reactive fragments as inhibitors of cysteine protease rhodesain	BIO	033	Danielle	McShan
291	Chemoenzymatic synthesis of a heparan sulfate library	BIO	034	Michelle	Bessiake
315	The Inhibition Mechanism of C-Type Lectins	BIO	035	Charnell	Long
322	Optimization and analysis of genetically encoded calcium probes for subcellular application	BIO	036	Florence	Reddish
285	Reductive Methylation: Method Development Towards Problem Solving and Applications	BIO	037	Pamlea	Brady
154	Benzochalcodiazoles: Modifying Structure to Improve Function in Organic Solar Cells	BIO	038	Monique	Ewan
304	Ab Initio Predictions of the Structure of Tetracycline and it's Chelation to Select Divalent Cations "Travel Grant Applicant"	BIO	039	Brandy	Vincent
313	Structural Analysis of Bacteriophage CBA120's Tailspike Proteins "Travel Grant Applicant"	BIO	040	Julia	Greenfield
43	One-electron redox properties of DNA nucleobases and their rare tautomers	BIO	041	Kristen	Lewis
47	Acetylene as a Precursor for Pyrimidine Bases on Titan	COMP	001	Chelesa	Fearce

146	Computational Analysis of Naphthyl Based Compounds as Potential Anti-proliferative Breast Cancer Treatment	COMP	002	Morgann	Adams
150	Surface Modification of Polyethyleneterephthalate (PET) by Ozone	COMP	003	Arnold	Jele
231	Polymorphic Blocks and Structured Connectors	COMP	004	Xien	Thomas
311	Exploring the Insertion Mechanism of SVS-1 $\beta$ -hairpin Peptide into an Anionic Lipid Bilayer	COMP	005	Keon	Reid
332	Engineering Cascade Reactions via Supraparticle Assemblies	COMP	006	Naomi	Ramesar
40	Synthesis and Binding Studies of Naphthyl-Based Tripodal Thiourea Anion Receptor	ENVIRO	001	COREY	JOHNSON
74	Concentrations of Selected Air Pollutants from Tire-Derived Smoke at Ghanaian Slaughterhouses	ENVIRO	002	Rachel	Barham
77	Exploring Chemical Complexity of Sea Spray Aerosols	ENVIRO	003	GRACE DE DIEU	IRUMVA
144	Investigation of Influence of Polycyclic Aromatic Hydrocarbons on Human Triple Negative Breast Cancer Cell Viability	ENVIRO	004	Tsdale	Mehari
191	Investigation of the new improved synthesis of novel flammability inhibiting materials	ENVIRO	005	Joshua	Heads
193	Environmental Fate and Transport of Platinum in Houston, TX	ENVIRO	006	Donyeil	Hoy
336	Site-Specific Labeling of Proteins by Quantum Dots for Fluorescence Resonance Energy Transfer (FRET) Measurements	ENVIRO	007	Isabelle	Niyonshuti
53	Plasma Assisted Solution Synthesis Of Metal Oxide Alloys	INORG	001	Babajide	Ajayi
68	TAMEisoquin, a novel tripodal fluorescent zinc sensor: Syntheses, coordination geometry, spectroscopy and metal-ion response	INORG	002	Lea	Nyiranshuti
101	Effect of a para-substituted pyridine on the ground and excited state properties of new ruthenium(II) polypyridine complexes	INORG	003	Jasmen	Hale
110	Ultrafast dynamics of single CdS <sub>x</sub> Se <sub>1-x</sub> nanowire lasers by femtosecond Kerr-gated Microscopy	INORG	004	Jolie	Blake
168	Synthesis of Highly Fluorescent Environmentally Persistent Free Radical Surrogates	INORG	005	Ansonia	Badgett
238	Solvent and ligand Effect on Ultrafast and Temperature-dependent Optical Properties of Bi-icosahedral Au <sub>25</sub> Clusters	INORG	006	Viraj	Thanthirige

251	Synthesis and cytotoxicity and DNA-binding studies of organorhenium complexes of flufenamic acid	INORG	007	Sabreea	Parnell
267	Novel Lanthanide Metal Macrocyclic Frameworks As Potential Candidates For Molecular Recognition	INORG	008	Chavis	Stackhouse
268	MOFs as non-Platinum group metal electrocatalyst precursors for oxygen reduction reaction	INORG	009	Kia	Williams
306	Reductively Coupling of Carbon Dioxide into Oxalate by Cu(I) Complex	INORG	010	Takia	Wheat
189	Metallization of Polydimethylsiloxane via Cupric Acetate and Silver Nitrate	INORG	011	Kenya	Wallace
242	METHOD DEVELOPMENT FOR THE LATE STAGE FUNCTIONALIZATION OF THE PHYLLANTHUSMIN CLASS OF NATURAL PRODUCTS AND DERIVATIVES	MEDI	001	Chido	Hambira
24	Synthesis and Evaluation of Nanomaterials as Electrocatalysts in Oxygen Reduction Reaction for Fuel Cell Applications	NANO	001	MARA	BELTRAN GASTE
212	SILICON OXIDE COATING ON THERMAL ENERGY STORAGE MATERIAL	NANO	002	Opeoluwa	Oyeleke
288	Graphene Oxide/Zinc Oxide Nanocomposites as Dissolved Oxygen Sensors	NANO	003	jameel	hasan
308	Synthesis and Characterization of Carbon Quantum Dots with Varying Amounts of Oxidation	NANO	004	Stacy	Jones
310	Probing the Interactions Occurring between Oxidized Multiwalled Carbon Nanotubes	NANO	005	Alicia	McGeachy
318	Selective Hydrogenation of Pyridine Derivatives using well-defined Nanoparticle Catalysts	NANO	006	Chartanay	Bonner
273	Molecularly Imprinted Silica-Coated Silver Nanoparticles for Controlled Release of Tetracycline	NANO	007	Diana	Aguilar
325	Quantitative measurement of proteins at attomole levels via active microfluidic sampling and homogeneous proximity assays	NANO	008	Jean T.	Negou
326	Investigation of Enhancement of X-Rays by Nanoparticles with Electron Paramagnetic Spectroscopy.	NANO	009	Ryan	Taylor

338	Peptide Ring Closing Metathesis: Minimizing Side Reactions in Arodyn Analogs	NANO	010	Solomon	Gisemba
330	Development of Doped Carbon Nanotube (CNTs) based Chemiresistor Gas sensors for Room Temperature Detection	NANO	011	Barbara	Okeke
343	Facile separation, sizing and quantitative analysis of engineered nanoparticles in an organism model using single particle inductively coupled plasma mass spectrometry	NANO	012	Monique	Johnson
25	Design and synthesis of inhibitors of the HIF-1 pathway	ORG	001	Jalisa	Holmes
58	Visible light photoredox catalysis for the nanoscale lithography of Au(111) surfaces using phthalimide esters	ORG	002	Rashanique	Quarels
61	Synthesis of new derivatives of diimidazole as precursors for BODIPYS type sensors	ORG	003	Lakshmi Sabari	Tejeda Aguayo
62	Synthesis Of The Fluorophore Green Fluorescent Protein (GFP) Analog From Phenylalanine	ORG	004	Rafael	Alcocer Vizcarra
67	Synthesis of the Phenylalanine Derived Lactones Using a Zinc Mediated Reaction	ORG	005	Rekha	Chhetri
78	Synthesis of new quinazolinone derivatives as precursors of BODIPY Sensors Based	ORG	006	Haide Imelda	Rivera
102	SYNTHESIS AND EVALUATION OF PIPERIDIN-SPIROHYDANTOINS AND A TRIAZINE DERIVATIVES AS ANTICONVULSIVE AGENTS	ORG	007	Sandy	Santiago Ruiz
107	Microwave-Assisted Ortho-Alkylation of 2, 4-Dimethylaniline with 1-phenylethanol and Study of its Drug Efficacy	ORG	008	Brandon	Hackett
108	Microwave-Assisted Ortho-Alkylation of 2, 4-Dimethylaniline with 1-phenylethanol to get 2, 4-Dimethyl-6-(1-phenyl-ethyl)-phenylamine) and HPLC separation of its chiral enantiomers	ORG	009	Dominique	Foster
109	A look at the thermal and mechanical properties of a novel thermoplastic polyurethane incorporated with nanoparticles.	ORG	010	Tamalia	Julien
111	Enantioselective Synthesis of Cyclobutanes via Chiral Transfer [2+2] Cycloadditions	ORG	011	Brittany	Witherspoon
116	Synthesis of a Novel Curcumin-Cisplatin Conjugate for Cancer Treatment	ORG	012	Jennifer	Jenkins

126	Synthesis of Substituted Piperidines via Organocatalysis	ORG	013	Acarie	Jenkins
152	1,2,3-Triazole Probe for the Detection of Cu(II) Ion	ORG	014	Jaelyn	Gibson
159	DETECTION OF REACTIVE INTERMEDIATES IN TRIPLET SENSITIZATION OF VINYL AZIDES.	ORG	015	Onyinye	Osisioma
162	DIRECT NUCLEOPHILIC CAPTURE OF UNSYMMETRICAL OXYALLYL CATIONS UNDER BRØNSTED ACID CATALYSIS	ORG	016	Caitlan	Ayala
165	Dichlorination of 1,3-anti and 1,3-syn Diols with Triphosgene-Pyridine	ORG	017	Mirza	Saputra
170	Synthesis of symmetrical monofunctional platinum complexes using aliphatic amine ligands; Travel Grant Applicant	ORG	018	Lily	Gosser
175	Anion Binding Studies of 1,1',1''-(nitrilotris(propane-3,1-diyl))tris(3-(naphthalen-1-yl)thiourea.	ORG	019	COREY	JOHNSON
194	Remote Hydroxylation of Unactivated Csp <sup>3</sup> -H Bonds	ORG	020	Kristina	Deveaux
233	1,2,3-triazoles: Controlled Switches in Logic Gate Applications	ORG	021	Austin	Atkinson
236	Triethoxysilylalkyl-fluorinatedphenylmethanimine self assembled monolayers as molecular rectifiers	ORG	022	Angela	Broadnax
246	Synthesis of Preliminary Heterocyclic Salts for Cyanine Dyes	ORG	023	Dominique	Munson
255	Microwave Assisted Organic Synthesis of Heptamethine Cyanine Dyes	ORG	024	Jahnn	Drigo
260	Microwave Synthesis and Analysis of Sulfonated Cyanine Dyes	ORG	025	Tijesunimi	Odebode
263	A Highly Stereoselective Synthesis of Allo-Enduracididine	ORG	026	Rondel	Thorpe
312	Selective C-H Activation Borylation ortho to Fluorine on Fluoroaromatic Systems	ORG	027	Monique	Noel
52	ANALOG SYNTHESIS OF GREEN FLUORESCENT PROTEIN CHROMOPHORES	ORG	028	Maria Isabel	Monreal-Leyva
20	Dual acting histone deacetylase and cyclooxygenase inhibitors with potent anticancer activities	ORG	029	Idris	Raji
135	Shear Thickening Fluids for Extra-Vehicular Activity(EVA) Space Suit Application	ORG	030	Jehnae	Linkins
64	Synthesizing Benzo- and Heteroaryl-Fused Cycloheptyl Rings via Lewis Acid-Catalyzed Formal [5+2] Cycloaddition	ORG	031	Maria Cynthia	Martin



26	Phosphoramidate inactivators of Mycobacterium tuberculosis (Mtb) BlaC	OTHER	001	Dawanna	White
119	On the Solutions of the Difference Equation $x_{(n+1)}=(f(x_n))/x_{(n-1)}$	OTHER	002	FranChell	Davidson
55	Addressing pre-service teachers' readiness to teach in increasingly diverse science classrooms	OTHER	003	Mary	Nyaema
220	Simultaneous Power System and Controller Design for Hybrid Fuel Cell Vehicles	OTHER	004	Oluwasanmi	Adeodu
184	A Mechanistic Study of the Photoreactivity of the $\beta$ -Ketoester Chromophoric Backbone of a Prospective Photoremovable Protecting Group	PHYS	001	DeVonna	Gatlin
186	Ultrafast fluorescence dynamics of Porphyrin aggregates on Graphene oxide and Molybdenum disulfide Nanocomposites	PHYS	002	Abubkr	Abuhagr
203	Determining nuclear level densities following beta decay	PHYS	003	Elena	Alemayehu
42	Synthesis and Characterization of a Cationic Polypeptoid Library towards DNA Complexation, Delivery, and Antimicrobial activity	POLY	001	Jessica	Simpson
73	The behavior of poly (amino acids) Containing l-Glutamate and their Copolymers with Poly (ethylene glycol) for Huntington's disease	POLY	002	Omniya	Alomainy
91	Functional ROMP Copolymers for the attenuation of neruoprotective hemoglobin	POLY	003	Christian	Lyle
180	Switchable drug delivery using infrared stimulus	POLY	004	Alexandria	Carrasquillo
208	Cross Linkage of Poly(methyl methacrylate) and D	POLY	005	Khalil	Waddell
225	Order Up!: A Study of Sequence on Polymer Properties	POLY	006	Devin	Swiner
244	Novel Functionalization of mcl-Polyhydroxyalkanoates via "Click Chemsitry"	POLY	007	Samuel	nkrumah-agyeefi
281	Optimization of ZnO interlayers in polymer tandem solar cells	POLY	008	Keshawn	Legg
287	Preparation and Characterization of Polylactic Acid (PLA) Nano Cellulose Composites	POLY	009	William	Simmons
293	Surfactant Properties of PEGylated Lignins	POLY	010	Kedar	Perkins

124	Influence of surface metallization and chemistry in the interactions of metallodielectric Janus colloids	POLY	011	Onajite	Shemi
197	Morphology	POLY	012	Roddel	Remy
329	Probe PEG-Chitosan surface modifications on PLGA particles for effective drug delivery	POLY	013	Genesis	Lopez











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2019

3.41









2017

3.8

Chemistry

Chemistry

Chemistry

Biology

Chemistry

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Biochemistry

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3.6

Biology

2016

2.98

Other

2016

3.5

Biochemistry

2019 3.925 Chemistry

2016 3.88 Chemistry







Chemical Engineering

Chemical Engineering







Chemistry

Yes

Bachelors

Yes

Bachelors

Yes

Bachelors

Other

Neurotoxicology





Chemical Engineering

Biochemistry

Other

Medicinal Chemistry





No

Bachelors







No

Bachelors

Job

Job

Job

Networking



Yes

Bachelors

Professional Development

Yes

High School

Networking

No

Bachelors

Graduate School Opportunity

No

Masters

Networking

Yes

Masters

Networking





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Select One



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Tim O'Neill



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