STUDENT RCSA GRANT AWARDS

2015-2016

Congratulations to all Award Winners!

Title: “Effects Tension Generation And Cell Proliferation Of TGF-Beta Have On A Dermal Equivalent Collagen Lattice”
Author: Corey Anderson
Mentor: Dr. Gang Xu

Title: “Optimization: The Shape And Material Properties Of The Hip Implant Project Summary”
Author: Sergey Antonyukov
Mentor: Dr. Abdellah Ait-Moussa

Title: “Determining The Immunological Mechanism Behind Laser Immunotherapy Assisted With Low Dose Cyclophosphamide”
Author: Cody Bahavar
Mentor: Dr. Wei Chen

Title: “Constructing Two-Intersection Sets: Unifying Finite Geometry, Coding Theory, And Graph Theory”
Author: Brenden Balch
Mentor: Dr. Elizabeth Lane-Harvard

Title: “Effect Of Nanoparticles On The Cell Viability Of Polycaprlactone-Collagen Substrates”
Author: Mikasa Barnes
Mentor: Dr. Morshed Khandaker

Title: “Developing A Super Computer Sandbox To Teach The Basics Of Super Computing”
Author: Corey Beadle
Mentor: Dr. Bradley Paynter

Title: “Women And Political Leadership In The United States”
Author: Rhonda Beck
Mentor: Dr. Patricia Loughlin

Title: “Development Of Numerical Simulation For Microfluidic Cell Separation Systems”
Author: Matthew Benton
Mentor: Dr. Mohammad Hossan

Title: “Design And Construction Of An Inexpensive, Portable Supercomputer”
Author: Matthew Boland
Mentor: Dr. Bradley Paynter

Title: “Antiproliferate Activity Of Zerumbone On Hepatocellular Carcinoma”
Author: David Bowman
Mentor: Dr. Hari Kotturi

Title: “Do Prey Color And Palatability Influence The Foraging Decisions Of Collared Lizards?”
Author: Cody Braun
Mentor: Dr. Troy Baird

Title: “OSHA Mandated Hazardous Communication For The Visually Impaired Employee”
Author: Guy Brown
Mentor: Dr. Joe Ahmadifar and Dr. Robert Delano
Title: “Creating A Model That Determines A Hospital With The Least Amount Of E.R. Wait Time”  
Author: Jake Burdine  
Mentor: Dr. Bradley Paynter

Title: “Honey Pond & A Fritter Tree: Rural Western Oklahoma Women & Their Families, 1900-1940”  
Author: Cheryl Caffee  
Mentor: Dr. Patricia Loughlin

Title: “Can Pupil Size Predict Tolerance Towards Risky Mate Choice In Women?”  
Author: Amber Cannon  
Mentor: Dr. Tephillah Jeyaraj-Powell

Title: “Development Of A Smartwatch App To Assist In The Prevention Of Pressure Ulcers.”  
Author: Steven Chambers  
Mentor: Dr. Jicheng Fu

Title: “Exploring The Adsorption Properties Of Reduced Graphene Oxide On Organic Compounds”  
Author: Tye Chapman  
Mentor: Dr. John Bowen

Title: “Watching A Swimming Rae Of Green Algea Cells: Correlation Motility With Viscosity”  
Author: Kara Clark  
Mentor: Dr. Gang Xu

Title: “Cryptic Species And Contact Zones: Using Molecular Markers To Assess Geomys Distributions In Oklahoma”  
Author: Cristina Coffman  
Mentor: Dr. Michelle Haynie

Title: “Synergistic Effect Of Cinnamon Oil Nanoemulsion With B-Lactam Antibiotics Against Staphylococcus Aureus”  
Author: Cole Craig  
Mentor: Dr. Hari Kotturi

Title: “Evaluation And Validation Of Identa Corporation's Bullet-Hole Testing Kit”  
Author: Katelyn Crandell  
Mentor: Dr. Deion Christophe

Title: “An Alternative Approach To Rankings Of Best Boston Qualifying Marathons”  
Author: Megan Culpepper  
Mentor: Dr. Mariya Burdina

Title: “Hypotaurine Dehydrogenase”  
Author: Mai Do  
Mentor: Dr. Steven Karpowicz

Title: “Experiment Determination Of Entropy Generation In Combining Fluid Flow”  
Author: Adam Dorety  
Mentor: Dr. Evan Lemley

Title: “Development Of A Novel Tracking Method For Tumor Metastases Using MRI And Molecularly-Targeted Contrast Agents”  
Author: Austin Doughty  
Mentor: Dr. Wei Chen

Title: “Confession Rates: Does Persuasion Resistance Time Reduce Them?”  
Author: Karissa Dugger  
Mentor: Dr. Robert Mather

Title: “Seeing Through Your Own Lenses: Does Visual Acuity Affect Personality?”  
Author: Justin Durham  
Mentor: Dr. Mickie Vanhoy
Title: “A Path To Student Retention In Higher Education”  
Author: Kati Embry  
Mentor: Dr. Susanne Currier

Title: “Prescribed Fire Effects And Forest Dynamics At An Urban Forest In Oklahoma, USA”  
Author: Carmen Esqueda  
Mentor: Dr. Chad King

Title: “Organic Synthesis Of Novel Compounds For Inhibition Studies On Dihydridipicolinate Synthase”  
Author: Russell Evans  
Mentor: Dr. Lilian Chooback

Title: “Friends In High Level Places: Using Online Gaming As Social Support For LGBT Individuals”  
Author: Adam Everson  
Mentor: Dr. Alicia Limke

Title: “Effect Of Jasmonic Salicylic Acids On Nematode-Infected Soybeans”  
Author: Joshua Faw  
Mentor: Dr. James Bidlack

Title: “Study Of Air Flow Pattern For Efficient Compression Of Air For Novel Jet Engine Type”  
Author: Travis Ferron  
Mentor: Dr. Mohammad Hossan

Title: “An Investigation Of Cellular Motility Using Rescued Algal Cells”  
Author: Daniel Fijalka  
Mentor: Dr. Gang Xu

Title: “Geometric Optimization And Experimental Validation Of Hip Prosthesis”  
Author: Justin Fischer  
Mentor: Dr. Abdellah Ait-Moussa

Title: “Subcloning And Characterization Of The Aro9 Enzyme”  
Author: Christian Fleming  
Mentor: Dr. Lilian Chooback

Title: “Determining The Effectiveness Of Nutritional And Healthy Lifestyle Intervention Program On School Aged Children At The Edmond YMCA Locations”  
Author: Jalal Ghafil  
Mentor: Dr. Tawni Holmes

Title: “From Foster Care To College: A Mixed Methods Study Examining Students' Perceptions Of Support Services”  
Author: Markesha Gray  
Mentor: Dr. Linda Harris

Title: “Improving Student Retention: Is Student Engagement The Critical Factor?”  
Author: Nautica Greene  
Mentor: Dr. Suzanne Clinton

Title: “Identifying The Enzyme Involved In Hypotaurine To Taurine Biosynthesis”  
Author: Roxanna Grove  
Mentor: Dr. Steven Karpowicz

Title: “Bacterial Planktonic And Biofilm Effects On Myofibroblast Structural Properties”  
Author: Preston Hall  
Mentor: Dr. Melville Vaughan

Title: “Repeat Photo Point Analysis Techniques”  
Author: William Hammond  
Mentor: Dr. Paul Stone

Title: “Dispossed Dialects: Following the Rhetoric of Poverty in the Keats Family, 1795-1889”  
Author: Phillip Harvey  
Mentor: Dr. Jessica Sheetz-Nguyen
Title: “Effects Of Gold Nanorods And Glycated Chitosan On Later Immunotherapy”
Author: Aamr Hasanjee
Mentor: Dr. Wei Chen

Title: “Catholic Sisters In Oklahoma: Invisible Builders Of Its People”
Author: Sherry Hatherley
Mentor: Dr. Patricia Loughlin

Title: “Autonomic Flexibility, Stress, And Post-Traumatic Growth”
Author: James Haws
Mentor: Dr. Tephilah Jayaraj-Powell

Title: “The Use For Forensic Corpora In Validation Of Data Carving On Solid State Drive”
Author: Kristina Hegstrom
Mentor: Dr. Mark McCoy

Title: “Developing A “Baby-Friendly Campus” Initiative For The University Of Central Oklahoma”
Author: Marina Hernandez
Mentor: Dr. Tiffany Wise

Title: “Myofibroblast Differentiation And Proliferation In Tension-Maintaining Skin Equivalents”
Author: Mona Hilal
Mentor: Dr. Melville Vaughan

Title: “The Effects Of Total Abundance On Patterns Of Commonness And Rarity”
Author: Nathan Hillis
Mentor: Dr. Chris Butler

Title: “Drivers Of Public Service Coproduction In Oklahoma”
Author: Trung Ho
Mentor: Dr. Jan Hardt

Title: “Design Of A Wear Resistance Testing Apparatus For Cylindrical Sample Coated In Nanofibers”
Author: Kyle Hodges
Mentor: Dr. Morshed Khandaker

Title: “Effects Of The TITIN Shirt On Speed And Vertical Jump Among Basketball Players”
Author: Thomas Huyghe
Mentor: Dr. Melissa Powers

Title: “Effect Of Cinnamon Oil Emulsions On Physico-Chemical, Microbiological And Sensory Characteristics Of Soy Fermented Products”
Author: Maureen Ita
Mentor: Dr. Kanika Bhargava

Title: “Physicochemical And Sensory Evaluation Of Coffee-Infused Granola Bars”
Author: Bausten Jech
Mentor: Dr. Kanika Bhargava

Title: “Law And Order”
Author: Kelly Jent
Mentor: Dr. Thomas Hancock

Title: “Design And Construction Of A Biomimic LEGO Model For The Cilia”
Author: Jordan Johnson
Mentor: Dr. Gang Xu

Title: “Analyzing Neuron Dynamics And Disorders With Mathematical Models”
Author: Farzan Kalantari
Mentor: Dr. Sean Laverty

Title: “Effects Of 3,4,5-Trismethoxybenzophenone (TMBP) On Liver Cancer”
Author: Pritika Khadka
Mentor: Dr. Hari Kotturi
Title: “A Novel Google Glass Application To Guide Wheelchair Users In Achieving Effective Tilt And Recline Usage To Reduce Risk Of Pressure Ulcers”
Author: Melicent King
Mentor: Dr. Jicheng Fu

Title: “Enclosed Cognition Decomposition Effect On Selective Attention”
Author: Hunter Klevgard
Mentor: Dr. Mickie Vanhoy

Title: “Develop A Tissue Engineering Scaffold For 3-Dimensional Cell Culture Using An Electrospun Nano-Fiber”
Author: Joshua Knight
Mentor: Dr. Morshed Khandaker

Title: “Doo Fibroblasts From Multiple Sources Respond Similarly To Staphylococcus Aureus Secreted Products”
Author: Pratiksha Kshetri
Mentor: Dr. Melville Vaughan

Title: “The Influence Of Persuasive Message Appeals And Media Type On Asian Consumers”
Author: Hung-Lin Lai
Mentor: Dr. Jeanetta Sims

Title: “False Confessions And The Fear Of A Future Alone”
Author: Breann Lindsey
Mentor: Dr. Mickie Vanhoy

Title: “E-Textbooks Vs. Printed Textbooks: Practicality In A Digital Age”
Author: Jesse Luu
Mentor: Dr. Christine Alexander

Title: “Understanding Oklahoma and Sexuality: Exploring the National Gay Task Force v. Board of Education of OKC, 1977-78”
Author: Megan Malone
Mentor: Dr. Marc Goulding

Title: “The Battle Among Women In Prohibition Oklahoma, 1907-1959”
Author: Skylar Marlow
Mentor: Dr. Patricia Loughlin

Title: “Population Structure And Genetic Diversity Of Red Imported Fire Ants (Solenopsis Invicta) At Lake Arcadia”
Author: Audrey Matheny
Mentor: Dr. Allyson Fenwick

Title: “Natural Disasters And International Relations Theory”
Author: Mike Maxey
Mentor: Dr. Loren Gatch

Title: “Its Simple, Just Scribble”
Author: Lauren Mayhew
Mentor: Dr. Amy Johnson

Title: “The Effect Of Aerobic Exercise On Treatment Outcomes In Individuals With Alcohol Use Disorders”
Author: Kaitlyn Mcelroy
Mentor: Dr. Tephi Jeyaraj-Powell

Title: “The Historical Distribution Of Eastern Redcar (Juniperus Virginiana L.) At The Selman Living Laboratory”
Author: Erin Mcgregor
Mentor: Dr. Brad Watkins

Title: “To End A Genocide: The Clinton Administration’s Response To The War In Bosnia, 1991-1995”
Author: Aaron Mcneil
Mentor: Dr. Patricia Loughlin

Title: “Structure Of Dihydroadipicolinate Synthase By X-Ray Crystallography”
Author: Sidra Mesiya
Mentor: Dr. Lilian Chooback
Title: “Saving Lives One Ambulance Trip At A Time”
Author: Jordan Michela
Mentor: Dr. Brad Paynter

Title: “Homework Night”
Author: Autumn Miller
Mentor: Dr. Amy Johnson

Title: “Housing And Employment For Transitioning Foster Youth”
Author: Deja Mitchell
Mentor: Dr. John Wood

Title: “Homework Night”
Author: Daltyn Moeckel
Mentor: Dr. Amy Johnson

Title: “Fabricated Liquid Crystal Based Intradiscal Pressure (IDP) Sensor”
Author: Piper Morgan
Mentor: Dr. Morshed Khandaker

Title: “Cell Culturing For Microfluidic Cell Separation For Bone Tissue Regeneration”
Author: Shelby Morris
Mentor: Dr. Mohammad Hossan

Title: “Transportation Outsourcing: A Qualitative Study”
Author: Danita Muralitharan
Mentor: Dr. Stefan Genchev

Title: “Examining Third Gender Aesthetics in Navajo Weaving”
Author: Christina Naruszewicz
Mentor: Dr. Lindsey Churchill

Title: “Exploring Adolescent Reactance To Stealth Marketing Campaigns”
Author: Ashley Neese
Mentor: Dr. Jeanetta Sims

Title: “Jury And Judge Decision Making: Biases In Jury And Bench Trials”
Author: Blake Nesmith
Mentor: Dr. Thomas Hancock

Title: “Improving Older Adults' Driving With Positive Age-Stereotype Priming”
Author: David Newton
Mentor: Dr. Robert Mather

Title: “Buy And Sell On Ebay: The Effects Of Reviews And Ratings On Consumers' Willingness To Pay When Buying From Other Consumers On Consumer-To-Consumer Platforms.”
Author: Huong Nguyen
Mentor: Dr. Thanh Tran

Title: “Homework Night”
Author: Ti Nguyen
Mentor: Dr. Amy Johnson

Title: “Magnetic Field Application On Auto Board Eraser”
Author: Hoang Nguyen
Mentor: Dr. Alaeddin Abu-Abed

Title: “Sports Betting In The NFL: Are The Winners Experts Or Lucky?”
Author: Caleb Norris
Mentor: Dr. Neil Metz

Title: “Investigating The Biphase Effect Of Tension Generation On Fibroblast Response To Caffeine”
Author: Joana Pantoja
Mentor: Dr. Melville Vaughan
Title: “Determination Of The Anti-Cancer Properties Of 3, 4, 5-Trismethoxybenzophenone In Liver Cancer Cells”
Author: Christopher Patton
Mentor: Dr. Hari Kotturi

Title: “Shell Code: The Essence Of Arbitrary Code Injection”
Author: Cole Penning
Mentor: Dr. Myung-Ah Park

Title: “Road Mortality Of Terrapene Carolina And T. Ornata In Edmond, Oklahoma And Its Effects On Turtle Populations”
Author: Ariel Petrilla
Mentor: Dr. Paul Stone

Title: “The Comparison Of The PUSH Band Vs. TENDO In Power Output And Velocity In Moderately Active Adults”
Author: Audrey Price
Mentor: Dr. Melissa Powers

Title: “Effect If Nano-Groove On Titanium Implant”
Author: Shahram Riahinazad
Mentor: Dr. Morshed Khandaker

Title: “Florence Nightingale: A War To Change Medicine”
Author: Lauren Riepl
Mentor: Dr. Jessica Sheetz-Nguyen

Title: “The Effects of High-Intensity Interval Training on Postural Controll, Dynamic Balance, and Muscular Strength among Older Adults”
Author: Antonio Ross
Mentor: Dr. Larissa Boyd

Title: “Cross Cultural Issues within the Practices of Collecting and Displaying Native American Art”
Author: Lauren Ross
Mentor: Dr. Teresa Pac

Title: “Taurine Synthesis and its Association with Disease and/or Aging”
Author: Gabriel Rucci
Mentor: Dr. Steven Karpowicz

Title: “How The United States Won The Bid And Prepared For The 1994 World Cup, 1986-1994”
Author: Patrick Salkeld
Mentor: Dr. Katrina Lacher

Title: “Forensic Application Of Variably Methylated Genomic Loci Analysis To Discriminate Between Monozygotic Siblings”
Author: Colton Scrivner
Mentor: Dr. James Creecy

Title: “Ocular Tracking Patterns In Top-Down And Botom-Up Object Perception Task”
Author: Jennifer Scott
Mentor: Dr. Mickie Vanhoy

Title: “Acute Effect Of Self-Myofascial Release Of The Rectus Femoris On Vertical Jump”
Author: Jeremy Seale
Mentor: Dr. Brady Redus

Title: “Determining The Effects Of Tutoring Modality On MIS Student Performance, Course Evaluation, And Attrition Rate”
Author: Winifred Sein
Mentor: Dr. Joselina Cheng

Title: “Formulation And Physico-Chemical And Sensory Characterization Of Gluten Free Tortilla Using Finger Millet And Gram Flour”
Author: Kritika Shakya
Mentor: Dr. Kanika Bhargava
Title: “Dispersion Of Black-Capped Vireos In The Wichita Mountain Wildlife Refuge”
Author: Neil Shields
Mentor: Dr. Brittany Bannish and Dr. Sean Laverty

Title: “Manipulating Blink Rate May Influence Response Times On Visual Tasks”
Author: Yasmin Shirali
Mentor: Dr. Mickie Vanhoy

Title: “Exploring The Dialectics In Latina Perceptions Of Healthy Foods”
Author: Jalea Shuff
Mentor: Dr. Jeanetta Sims

Title: “Formulation, Nutritional And Sensory Analysis Of Organic Semolina Protien Bar”
Author: Jean Simo
Mentor: Dr. Kanika Bhargava

Title: “Dialectic Presence In The Digital Divide Amoung African American Females”
Author: Atoya Sims
Mentor: Dr. Jeanetta Sims

Title: “Fingerprint Drug Testing To Determine Synthetic Cannabinoid Use In Cases Of Diminished Capacity”
Author: Elizabeth Smith
Mentor: Dr. Thomas Jourdan

Title: “Standing Room Only: The Crematory Debate”
Author: Jaclyn Spomer
Mentor: Dr. John Fritch

Title: “Get Out Of Your Parents' Basement: How To Be A Grown Up In The Design Industry”
Author: Haley Spradlin
Mentor: Dr. Amy Johnson

Title: “Construction Of An Automatic Whiteboard Eraser Track System”
Author: Kyle Stamper
Mentor: Dr. Alaeddin Abu-Abed

Title: “In Vitromechanical Testing Of Titanium And Bone Scaffold”
Author: Fariha Sultana
Mentor: Dr. Morshed Khandaker

Title: “Creating Mathematical Models to Represent Interactions Between Rothschild Giraffes and Acacia Trees”
Author: Kristina Sundy
Mentor: Dr. Bradley Paynter

Title: “Calculation Of Enzymatic Activity Of Deaminae Enzymes And A-To-I Editing In Wobble Positions Of The Gene Tada In Escherichia Coli Trna”
Author: Baylee Tatum
Mentor: Dr. James Creecy

Title: “Distribution Patterns And Reproductive Migration Of Land Crabs On A Small Tropical Island”
Author: Kinsey Tedford
Mentor: Dr. David Bass

Title: “Cardiac Troponin I Protein Immobilization On A PMMA Surface”
Author: Loren Teigland
Mentor: Dr. Mohammad Hossan

Title: “Say More”
Author: Maranda Thurm
Mentor: Dr. Amy Johnson

Title: “Probing Mechanical Stresses In Human Fibroblast Collagen Lattices”
Author: Lauren Tinnin
Mentor: Dr. Gang Xu

Title: “Determining A Way To Give Further Mobility To Patients Suffering From An Ankle Injury And Use A Walking Boot”
Author: Robert Torzilli  
Mentor: Dr. Gang Xu  

Title: “Modeling How Climate Change May Affect The Distribution Of Five Palms Species”  
Author: Huyen Tran  
Mentor: Dr. Chris Butler  

Title: “I Pledge Allegiance: The Relationship Between Attention To Terrorism In The Media, Patriotism, And Emotion”  
Author: Hayley Twyman  
Mentor: Dr. Thomas Hancock  

Title: “Developing A Global Authentic Leadership Model For Accelerating Educator Identity”  
Author: Karl Tyler  
Mentor: Dr. Ed Cunliff and Dr. Jeanetta Sims  

Title: “Assessing Adaptability: A Study Of International Students In Design Classrooms”  
Author: Thao Vu  
Mentor: Dr. Ruki Ravikumar  

Title: “Creating And Testing A Computational Model For Cilla And Flagella”  
Author: Nikolas Wagner  
Mentor: Dr. Gang Xu  

Title: “Forget About The Old Cabs And Take An Uber? An Investigation Into Consumers’ Quality Perception When Engaging In Consumer-To-Consumer Transactions.”  
Author: Kenneth Walker  
Mentor: Dr. Thanh Tran  

Title: “Fabrication Of A Microfluidic Device For Osteoblast Purification”  
Author: Nicholas Walker  
Mentor: Dr. Mohammad Hossan  

Title: “Development Of A Practical Mobile System To Track Wheelchair Users’ Mobility And Activity Level”  
Author: Yuxuan Wang  
Mentor: Dr. Jicheng Fu  

Title: “Comparing Photothermal Effects Of Gold Nanorods And Single-Walled Carbon Nanotubes In Cancer Studies”  
Author: Connor West  
Mentor: Dr. Wei Chen  

Title: “Wilma Mankiller’s Feminist Influence On Cherokee Politics, 1985-1995”  
Author: Alona Whitebird  
Mentor: Dr. Patricia Loughlin  

Title: “Health Related Quality Of Life And Physical Activity In Older Adults With Medical History Of Myocardial Infarction”  
Author: Meagan Wilson  
Mentor: Dr. Jacilyn Olson  

Title: “Geometric Modeling And Optimization Of Hip Prothesis”  
Author: Rohan Yadav  
Mentor: Dr. Abdellah Ait-Moussa  

Title: “A Study of Financial Position and Expenditure of Confucius Institutes in U.S”  
Author: Lingling You  
Mentor: Dr. Xiao-Bing Li  

Title: “Energy Production Via Chloroplast Solar Cells”  
Author: Winifred Zajac-Mcconaghy  
Mentor: Dr. James Bidlack  

Title: “Improving Tilt And Recline Usage For Manual Wheelchair Users By Using Mobile-Cloud Computing”  
Author: Wenxi Zeng  
Mentor: Dr. Jicheng Fu
Title: “Foreign Direct Investment In US Oil And Gas Market”  
Author: Xixi Zhang  
Mentor: Dr. Kuang-Chung Hsu and Dr. Zhen Zhu  

Title: “Ethic China: State, Society, And Minority”  
Author: Yanjun Zhou  
Mentor: Dr. Xiao-Bing Li  

Title: “Response Of Chlamydomonas Reinhardtii In Medium Viscosity”  
Author: Thi Nguyen  
Mentor: Dr. Steven Karpowicz