



The Office of Sponsored Programs

Annual Report

Fiscal Year 2020

July 1, 2019 - June 30, 2020

Introduction

It is with great pleasure to present the Office of Sponsored Programs (OSP) Annual Report for fiscal year 2020. This report is compiled annually and includes comprehensive information for all external and intramural grants, and academic and scholarly activities.

For FY20, a total of 71 proposals were submitted worth \$10,424,819. The total funding received was \$4,970,553 from 39 proposals (number of proposals that received funding). This was a 168% increase in funding over FY19.

From the 2018-2023 university strategic plan, SWOSU Pathway to Excellence, Strategic Goal 3 states that as a university we will increase the Annual Institutional grant portfolio by \$5 million by spring 2023. We are well on our way to moving toward that goal.

Our office is committed to the support of faculty, administration, and staff in pursuit of extramural funding by providing proposal preparation support, grant-writing training, researching funding sources, and maintaining compliance with federal, state, and local compliance laws including the university Internal Review Board, BioSafety, Financial Conflicts of Interest, Responsible Conduct of Research and others as applicable.

We are also proud to support the efforts of the University Research and Scholarly Activity Committee (URSAC). URSAC plans the annual SWOSU Research and Scholarly Activity Fair, coordinates the nominee selection for the Research Day at the Capitol undergraduate student to represent SWOSU, and reviews and selects recipients for the faculty Proposal Development Awards. The Fall 2019 SWOSU Research and Scholarly Activity Fair hosted 109 unique posters and oral presentations from multiple departments across campus.

Congratulations to all faculty, staff, administration, and students for all of your hard work and dedication in securing resources and contributing to global knowledge. We look forward to continuing support of these endeavors through the coming years.

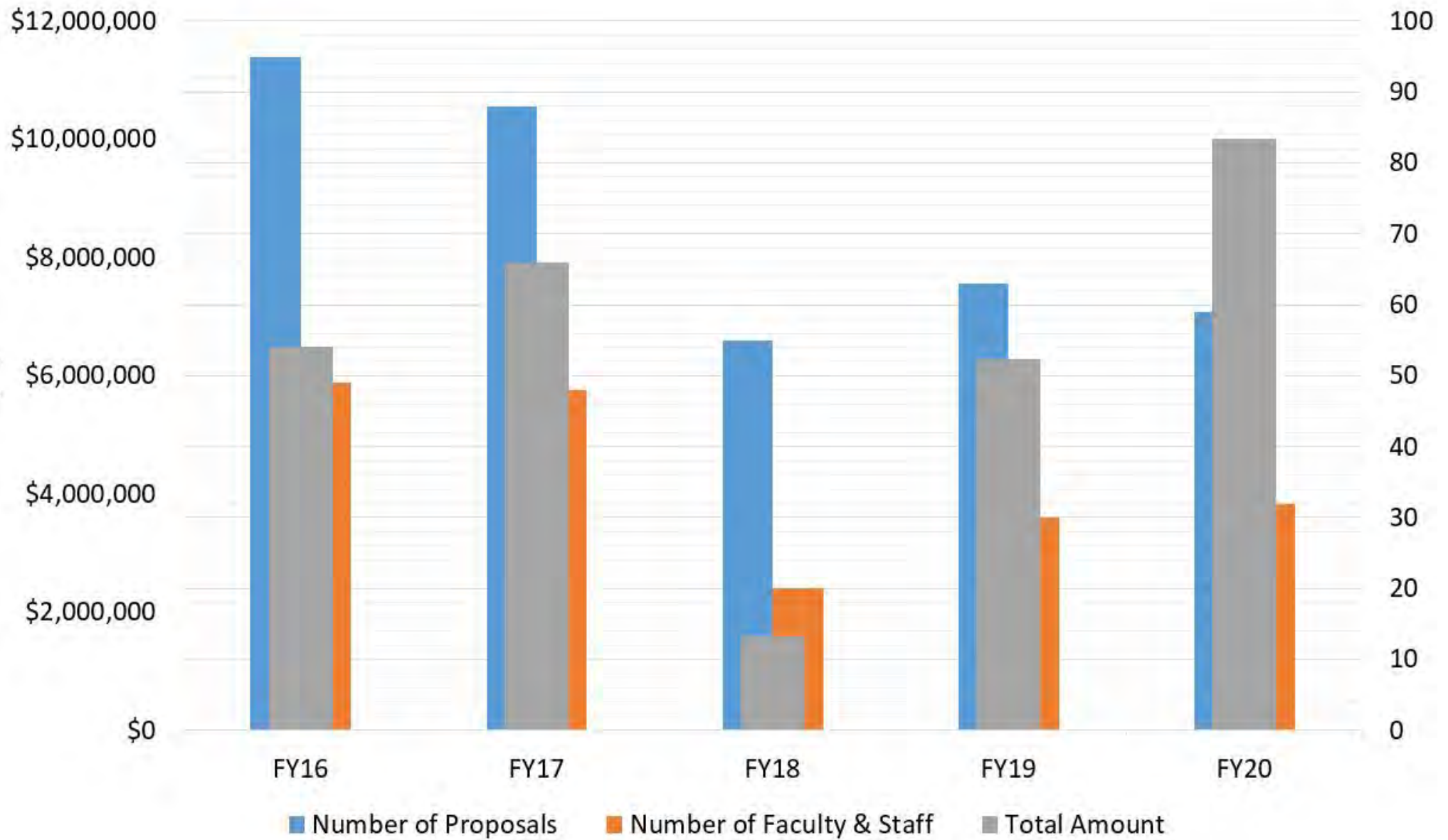
Sincerely,

Lori Gwyn, Ph.D.,
Director

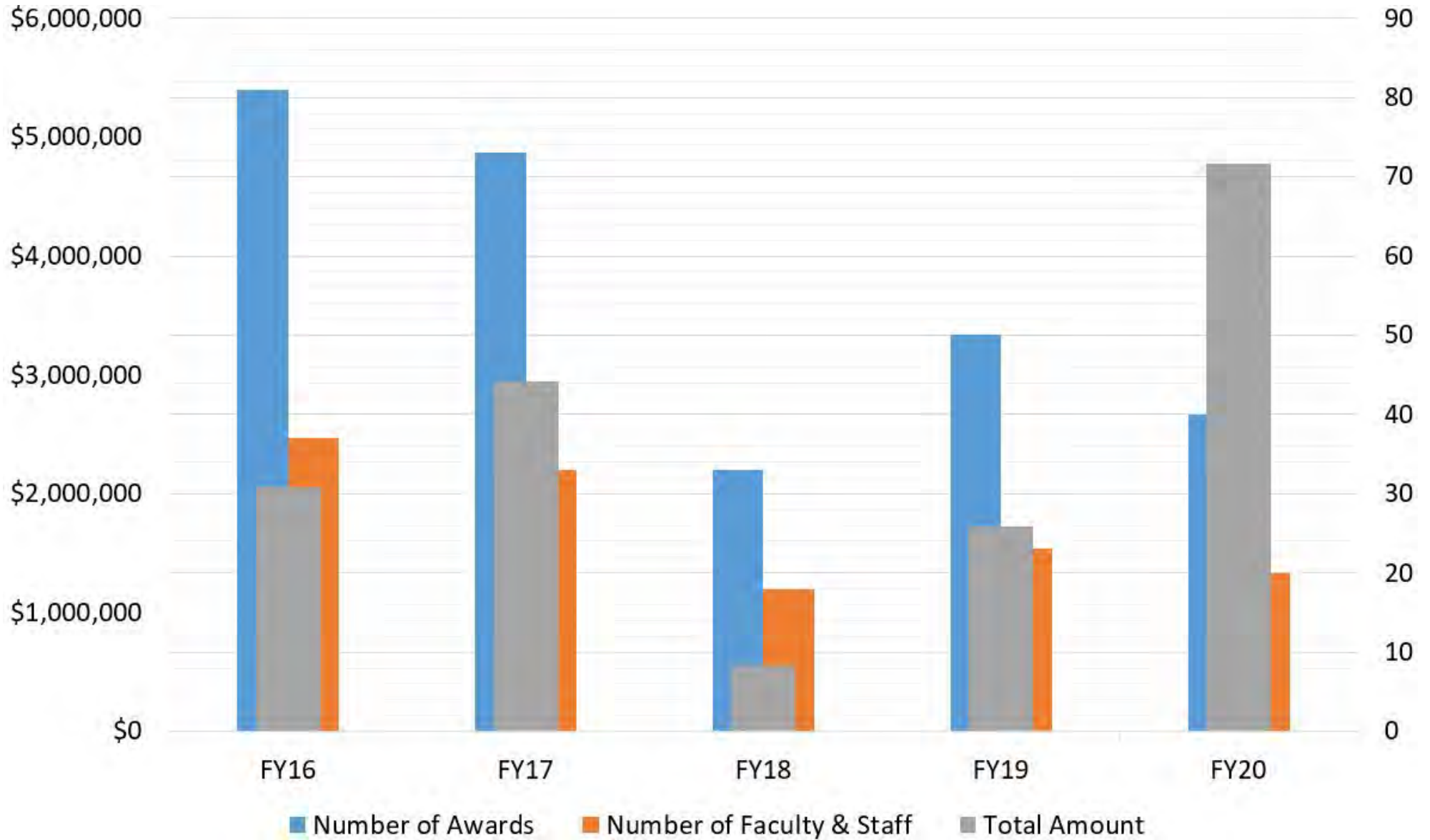
C.J. Smith,
Assistant Director

Jennifer Cook-Johns,
Grants Specialist

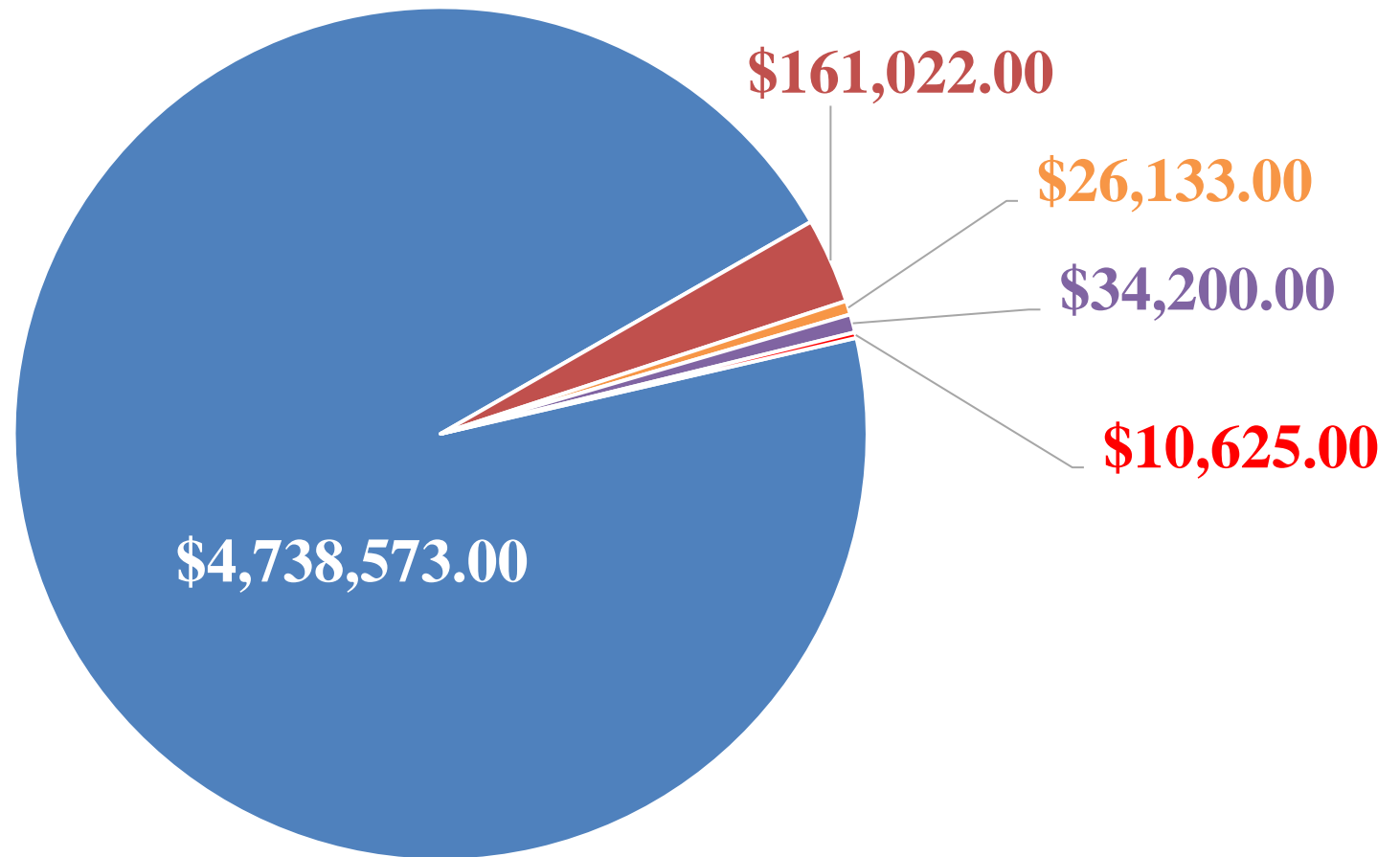
Pre-Award Activity



Extramural Awards



Extramural Awards by Source



■ Federal (13 Awards)

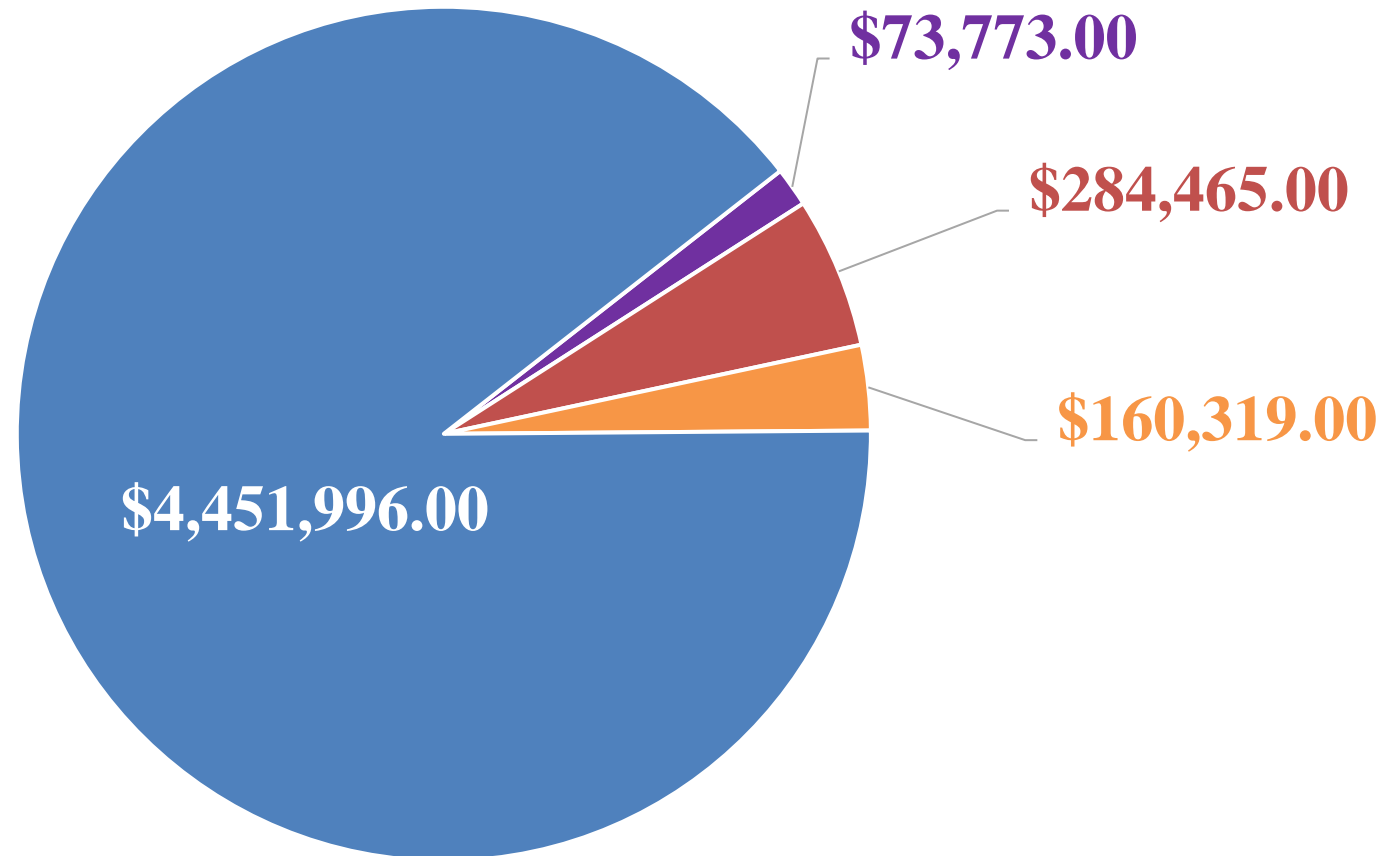
■ State (13 Awards)

■ Private (3 Awards)

■ Local (4 Awards)

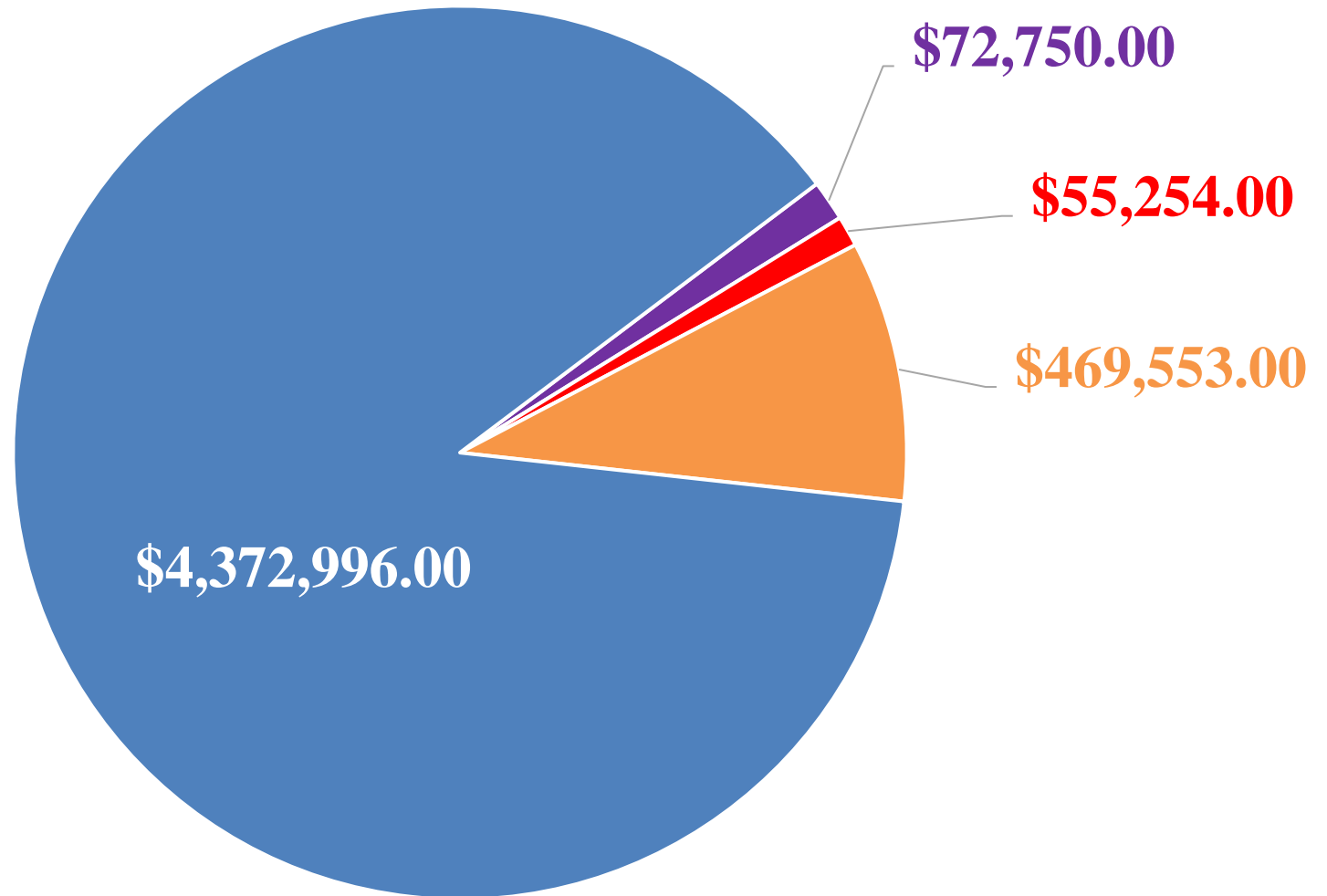
■ Foundation (6 Awards)

Extramural Awards by Division



- College of Professional and Graduate Studies (7 Awards)
- College of Arts and Sciences (18 Awards)
- College of Pharmacy (2 Awards)
- Administration (12 Awards)

Extramural Awards by Function



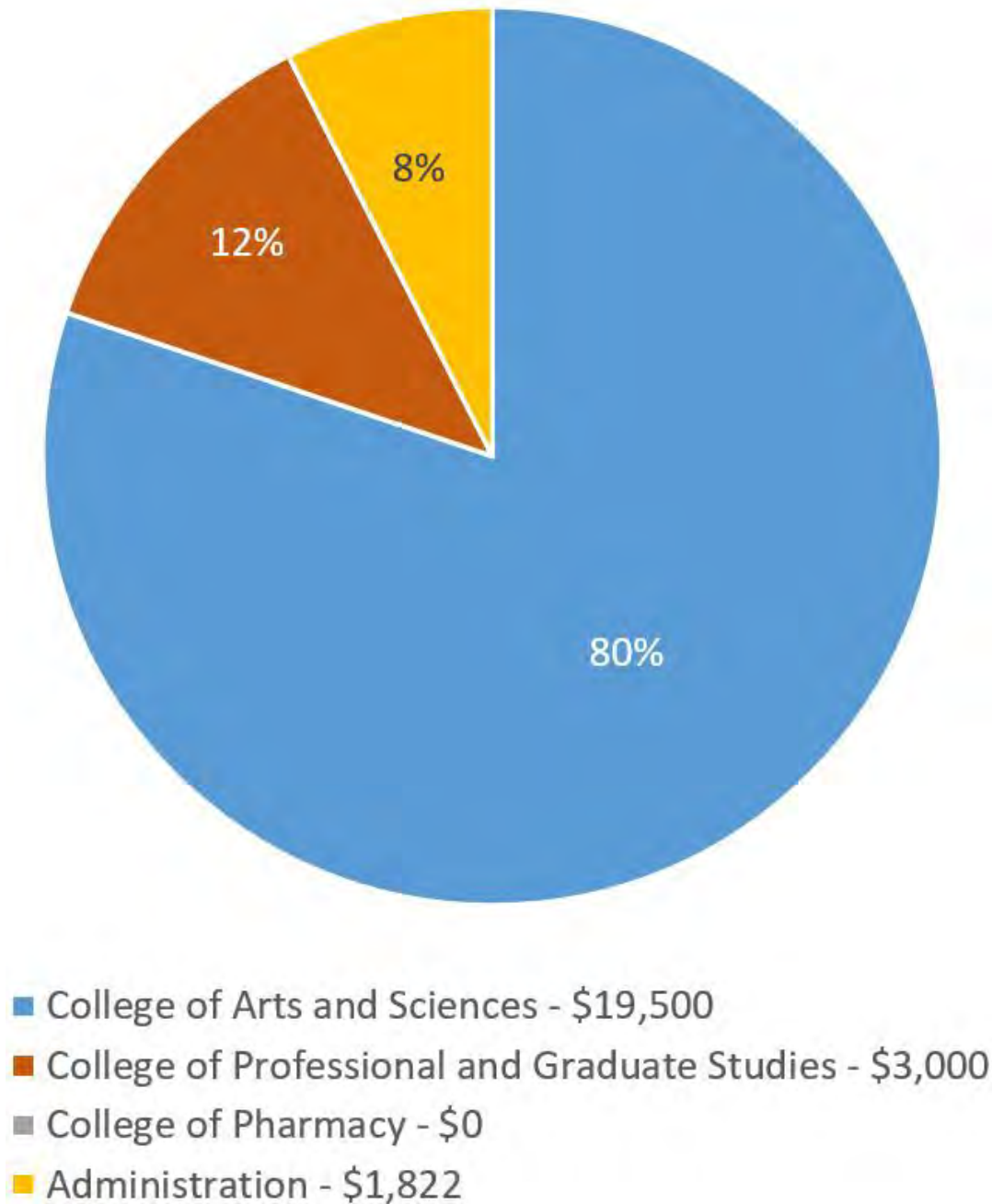
■ Public Service (9 Awards)

■ Instruction (2 Awards)

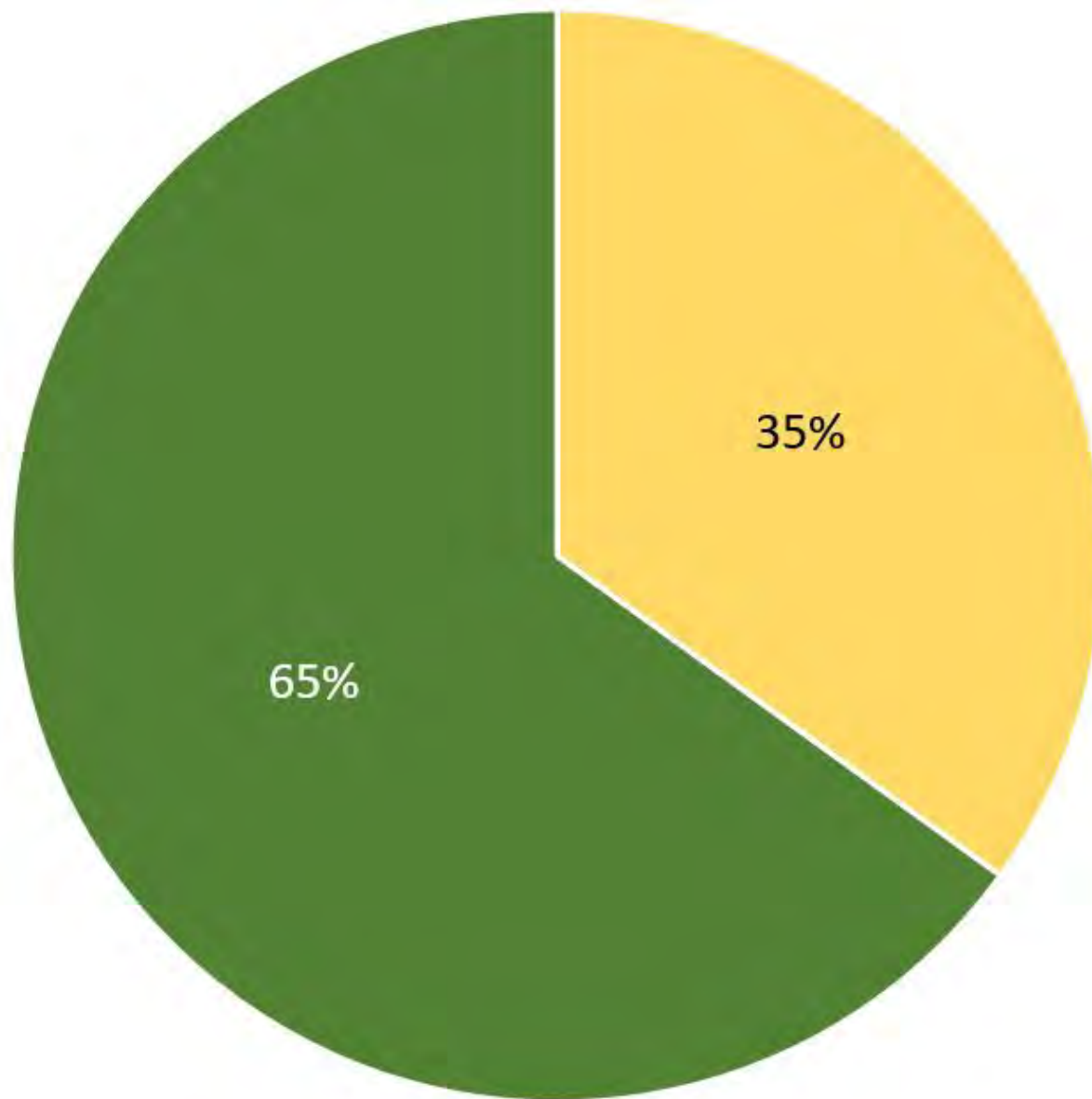
■ Research (22 Awards)

■ Student Support (6 Awards)

Financial Assistance for Scholarly Activity Travel by College



Financial Assistance for Scholarly Activity Travel



■ Students - 34 Awards

■ Faculty & Staff - 32 Awards



FY20 Grants, Research, and Scholarly
& Academic Activity Reports

Dr. Keturah Adams

Department of Chemistry and Physics



Organized Research

Dr. Keturah Adams was awarded \$2,000 in Organized Research funding from the Dean of the College of Arts and Sciences for her project, “Functional Characterization of Alternative Splice Variants in Elongation of Very Long Chain Fatty Acids – 4 (EVOLA4) in Human Disorders.” This project provided 20 hours of research experience.

Mr. Brian Adler

Public Relations and Marketing



Extramural Activity

The City of Weatherford Hotel/Motel Tax Commission awarded \$10,000 to fund the “SWOSU Panorama Event SWOSUPalooza” from April 9, 2020 – June 30, 2020. SWOSUPalooza featured three performers, Flatland Calvary, Mike Ryan, and Triston Marez.

The City of Weatherford Hotel/Motel Tax Commission awarded \$15,000 to fund the “SWOSU Panorama Event” from April 9, 2020 – June 30, 2020. The Panorama Event featured comedian, Dr. Ken Jeong.

Ms. Cindi Albrightson

Department of Engineering Technology



Extramural Activity

The Wal-Mart Foundation awarded \$1,000 to fund the “NASA HERC Build” project from November 1, 2019 – May 1, 2020. This project is a competition that challenges high school and college students to create a vehicle designed to traverse simulated surfaces of other worlds.

Dr. Lisa Appeddu

Department of Pharmaceutical Sciences



Organized Research

Dr. Lisa Appeddu was awarded \$2,080 in Organized Research funding from the Dean of the College of Pharmacy for her project, "Evaluation of the impact of providing nutritional information in the SWOSU Grill on nutritional knowledge and healthy food choices in college students." This project provided 150 student research hours.

Dr. Amy Barnett

Department of Education



Extramural Activity

The Indian Child Welfare Act, through the Oklahoma Department of Human Services, has awarded SWOSU a grant titled, “ICWA Partnership Grant – Research Data and Evaluation Chair (Year 2)” for the amount of \$47,089 and the funding period is from July 1, 2019 – June 30, 2020. The scope of this grant includes convening regular committee meetings, providing consultation and assistance to the grant team in the identification of data and research needs of the grant on an on-going basis, conduct research and gather data on evidence based or best practice strategies that will assist the grant team in meeting the goals and objectives of the grant.

Ms. Madeline Baugher

SWOSU NASA Coordinator



Extramural Activity

The Oklahoma State Regents for Higher Education, through the University of Oklahoma, awarded \$6,852 to fund the project, “NASA OK-EPSCoR Research Implementation-Dr. Sigmarsson (Year 2),” from June 1, 2019 – May 31, 2020.

The National Aeronautics and Space Administration, through the University of Oklahoma, awarded \$5,672 to fund the project, “NASA Oklahoma EPSCoR Research Implementation – Saparov” from September 2, 2019 – September 1, 2020.

The Oklahoma State Regents, through the University of Oklahoma, provided funds, in the amount of \$5,672, to fund the project, “NASA Oklahoma EPSCoR Research Implementation – Saparov” from September 2, 2019 – September 1, 2020.

The Oklahoma State Regents for Higher Education, through the University of Oklahoma, awarded \$3,744 to fund the project, “NASA Oklahoma EPSCoR RID,” from September 1, 2019 – August 31, 2020.

The National Aeronautics and Space Administration, through the University of Oklahoma, awarded \$3,744 to fund the project, “NASA Oklahoma EPSCoR RID,” from September 1, 2019 – August 31, 2020.

Dr. Andrew Bigley

Department of Chemistry and Physics



Organized Research

Dr. Andrew Bigley was awarded \$567.46 in Organized Research funding from the Dean of the College of Arts and Sciences for his project, "Hydrolysis of di(chloroalkyl) Phosphate by the Phosphodiesterase from *Sphingobium*."

Dr. Ruth Boyd

Vice President for Student Affairs



Extramural Activity

Dr. Boyd, along with Co-PI Ms. Heather Hummel, was awarded \$4,500 from the Oklahoma Women's Foundation to fund the project, Single Parent Network. The Single Parent Network focuses on single parents, typically young women, struggling to complete their degree by identifying effective strategies to meet the varied needs of those parents.

The U.S. Department of Education awarded \$59,983 to fund the "GEAR UP" project that targets first generation college students/parents and minority students/parents in order to increase the number of low-income students who are prepared to enter and succeed in postsecondary education.

Ms. Brenda Burgess

Vice President for Administration and Finance



Extramural Activity

SWOSU was awarded \$1,721,756 by the U.S. Department of Education to fund the grant, “CARES – Institutional Funding,” from May 11, 2020 – May 10, 2021. This grant allowed SWOSU to cover any costs associated with significant changes to the delivery of instruction due to coronavirus.

The U.S. Department of Education awarded \$1,721,756 for the “Coronavirus Higher Education Relief Fund” from May 11, 2020 – May 10, 2021. This grant provided funding to institutions to provide emergency financial aid grants to students whose lives have been disrupted by the Coronavirus.

Dr. Melinda Burgess

Department of Psychology



Organized Research

Dr. Melinda Burgess was awarded \$2,000 from the Dean of the College of Professional and Graduate Studies for her projects, “Young Americans' understanding and attitudes about midwifery” and “Factors that predict using the label of ‘fake news’.” This project created 100 student research hours.

Dr. Stephen Burgess

Department of Psychology



Organized Research

Dr. Stephen Burgess was awarded \$2,000 from the Dean of the College of Professional and Graduate Studies for his projects, “Multiple projects examining the use of news sources to acquire information for decision making” and “Female representation and opportunities in video games.”

Dr. Brian Campbell

Department of Chemistry and Physics



Extramural Activity

The Oklahoma State Regents for Higher Education awarded \$47,450 to fund the “SWOSU Summer Science and Mathematics Academy,” from April 1, 2020 – September 30, 2020. This academy, led by Dr. Campbell and Dr. Keturah Adams, gives 32 high school sophomores, juniors, and seniors a two-week enhanced educational college experience modeling the close relationship between science, mathematics, technology, and society. It is designed to motivate the participants towards pursuing higher education and careers in science, technology, engineering, and mathematics and become a positive force in this dynamic economy.

Dr. Jieun Chang

Department of Social Sciences



Supplemental Assistance

Dr. Jieun Chang was awarded \$500 from the Office of Sponsored Programs to present at the 2020 Eastern Economic Association 46th Conference in Boston, Massachusetts.

Scholarly and Academic Activity

Dr. Jieun Chang judged four exhibitions for Oklahoma National History Day.

Dr. Melanie Claborn

Department of Pharmacy Practice



Scholarly and Academic Activity

Dr. Melanie Claborn presented a workshop titled “How to Embed Pediatric Content Within the Required Doctor of Pharmacy Curriculum” at the American Pharmacists Association Annual Meeting in Chicago, Illinois.

She published her article “Be Tick Smart: Don’t Get Bit this Summer” in the magazine *Oklahoma City Indian Clinic Horizons*.

For the American Pharmacists Association Annual Meeting, she reviewed seven abstracts.

She reviewed two journal articles for the *American Journal of Health-System Pharmacy*.

She also reviewed the Ambulatory Care Self-Assessment Program Book 3 (Neurologic Care and Pain Management): Tension-Type, Cluster, and Migraine Headache for the American College of Clinical Pharmacy.

Dr. Rickey Cothran

Department of Biological Sciences



Extramural Activity

The Beta Beta Beta Biological Honors Society awarded \$300 to fund the project, “How demographics affect long-term population health in *Hyalella* amphipods,” from November 1, 2019 – November 30, 2020. The purpose of this study is to test the effects of sex ratios and density on population health by exploring female fitness components and population growth rate in a freshwater amphipod species in the genus *Hyalella*. This study serves to provide important insight into how changes in sex ratio and density influence population health and the results could inform management decisions for imperiled populations that experience sexual conflict.

Dr. Randy Curry

Department of Rural Health



Extramural Activity

The City of Weatherford Hotel/Motel Committee awarded \$5,700 to fund the project, “Remote Area Medical,” from July 1, 2019 – July 31, 2019. The Remote Area Medical program provides free pop-up clinics. Their mission is to prevent pain and alleviate suffering by providing free, quality healthcare to those in need by delivering free dental, vision, and medical services to underserved and uninsured individuals.

Dr. Mark DiPaolo

Department of Language and Literature



Scholarly and Academic Activity

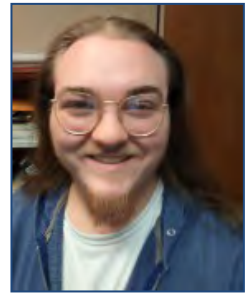
Dr. Marc DiPaolo presented his paper, “On Jungle Fever, True Romance, and Green Book: African-American and Italian-American Relations in Cinema at the Modern Language Association Conference in Seattle, Washington.

Supplemental Assistance

Dr. Marc DiPaolo was awarded \$500 from the Office of Sponsored Programs to present at the Modern Language Association Convention in Seattle, Washington.

Mr. Benjamin Dressler

Al Harris Library



Supplemental Activity

Mr. Benjamin Dressler was awarded \$500 from the Office of Sponsored Programs to present at Mythcon 50: Looking Back, Moving Forward in San Diego, California.

Scholarly and Academic Activity

Mr. Benjamin Dressler presented his paper, “Mythlore: Preserving the Past and Moving into the Future with the SWOSU Digital and Physical Archive” at Mythcon50 in San Diego, California.

Dr. Stephen Drinnon

Department of Pharmaceutical Sciences



Scholarly and Academic Activity

Dr. Stephen Drinnon presented his poster, “Self-Reported Utilization of Medical Cannabis in Western Oklahoma at Oklahoma Research Day in Weatherford, Oklahoma.

He published his journal article “Publication Records and Bibliometric Indices of Post-Professional Pharmacy Fellowship Directors.”

Dr. Trevor Ellis

Department of Chemistry and Physics



Extramural Activity

OK-INBRE awarded \$2,000 to fund the project, "Travel to SE/SW Regional ACS Meeting in New Orleans" from May 1, 2020 – October 31, 2020. This grant gave Dr. Ellis and his student the opportunity to travel to New Orleans, Louisiana and present their poster, titled, "Design and Synthesis of a New Generation of Nucleophilic Glycine Equivalents," at the American Chemical Society Meeting. The aim of their research is focused on the development of innovative synthetic methodologies for the synthesis of unnatural amino acids.

\$2,000 was awarded by OK-INBRE to fund the grant, "Travel to National American Chemical Society Meeting in Philadelphia," from May 1, 2020 – October 31, 2020. This grant gave Dr. Ellis and his student the opportunity to travel to Philadelphia, Pennsylvania and present their poster, titled, "Design and Synthesis of a New Generation of Nucleophilic Glycine Equivalents," at the American Chemical Society Meeting. The aim of their research is focused on the development of innovative synthetic methodologies for the synthesis of unnatural amino acids.

Supplemental Activity

Dr. Trevor Ellis was awarded \$500 from the Office of Sponsored Programs to present at the American Chemical Society National Meeting in Philadelphia, Pennsylvania.

Dr. Trevor Ellis was awarded an additional \$250 from the Office of Sponsored Programs for his student, Emily Burgess, to present at the American Chemical Society National Meeting in Philadelphia, Pennsylvania.

Dr. David Esjornson

Department of Chemistry and Physics



Supplemental Assistance

Dr. David Esjornson was awarded \$500 from the Office of Sponsored Programs to present at the American Chemical Society National Meeting in Philadelphia, Pennsylvania.

Dr. David Esjornson was also awarded an additional \$500 from the Office of Sponsored Programs for his students, Jennifer Park and Denise Anderson, to present at the American Chemical Society National Meeting in Philadelphia, Pennsylvania.

Dr. Amanda Evert

Department of Business



Supplemental Assistance

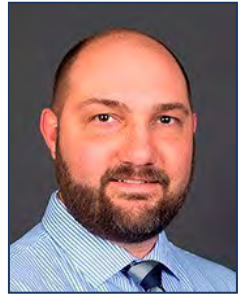
Dr. Amanda Evert was awarded \$500 from the Office of Sponsored Programs to present at the Accreditation Council for Business Schools and Programs Annual Conference in Chicago, Illinois.

Organized Research

Dr. Amanda Evert was awarded \$2000 in Organized Research funding from the Dean of the College of Professional and Graduate Studies for her project, "Data Scraping for Faculty Development: 'Better Than Magic: Web-scraping as a Brand Analysis Tool for Business Professors.'" This project created 95 student research hours.

Dr. Jeremy Evert

Department of Computer Science



Supplemental Assistance

Dr. Jeremy Evert was awarded \$500 from the Office of Sponsored Programs to present at the Accreditation Council for Business Schools and Programs Annual Conference in Chicago, Illinois.

Organized Research

Dr. Jeremy Evert was awarded \$5254 in Organized Research funding from the Dean of the College of Professional and Graduate Studies for his project, "Machine Learning and Web Scraping for Undergraduate Research (Scenario 10)." This project created 300 student research hours.

Dr. Robert Fant

Department of Music



Extramural Activity

20014 – The project, “St. Louis Brass Concert and Master Class,” was awarded \$3,300 by the Mid America Arts Alliance from July 16, 2019 – October 25, 2019. This project, organized by Dr. Robert Fant and Ms. Rhyesa Hamilton, gave students from SWOSU an opportunity to attend classes and a concert provided by the St. Louis Brass.

Supplemental Assistance

Dr. Robert Fant was awarded \$500 from the Office of Sponsored Programs to perform at the International Horn Symposium in Ghent, Belgium.

Organized Research

Dr. Robert Fant was awarded \$2,000 from the Dean of the Arts and Sciences for his project, “French Horn Fundamentals: A Guide for Teachers and Young Players.”

Dr. Daniel Farris

Department of Music



Supplemental Assistance

Dr. Daniel Farris was awarded \$500 from the Office of Sponsored Programs to present at the American Choral Directors Association Conference in Little Rock, Arkansas.

He was awarded an additional \$2,000 from the Office of Sponsored Programs for his students Brianna Boyce, Castellon Guillermo, Thomas Kenney, Abigail Kerr, Gina Patterson, Jason Ralstin, Joseph Saenz, and Hope Sawatsky, to perform at the American Choral Directors Association Conference in Little Rock, Arkansas.

Mr. Phillip Fitzsimmons

Al Harris Library



Supplemental Assistance

Mr. Phillip Fitzsimmons was awarded \$500 from the Office of Sponsored Programs to present at Mythcon 50: Looking Back, Moving Forward in San Diego, California.

Scholarly and Academic Activity

Mr. Fitzsimmons presented his paper, “Mythlore: Preserving the Past and Moving into the Future with the SWOSU Digital and Physical Archive” at Mythcon50 in San Diego, California.

He presented his paper, “Have You Tried Breaking Up? We Did, and This is What We Found” at the Heartland User’s Group in Springfield, Missouri.

Dr. Barry Gales

Department of Pharmacy Practice



Scholarly and Academic Activity

Dr. Barry Gales published his article, "Inhaled Amphotericin B as Aspergillosis Prophylaxis in Hematologic Disease: An Update" in the journal *Microbiology Insights*.

He was a guest speaker presenting the following programs for the Great Plains Family Medicine Noon Conference in Oklahoma City:

- "Statistics Review;" and
- "Drugs Associated with Weight Gain"

Dr. Gales also reviewed the following articles for the journal, *Annals of Pharmacotherapy*:

- "Intranasal Glucagon: A New Way to Treat Hypoglycemic Emergencies;" and
- "Refill Reminder Preference and Inhaled Corticosteroid Adherence Among Patients with Asthma"

Dr. Mark Gales

Department of Pharmacy Practice



Scholarly and Academic Activity

Dr. Mark Gales published his article, “Inhaled Amphotericin B as Aspergillosis Prophylaxis in Hematologic Disease: An Update” in the journal *Microbiology Insights*.

He reviewed the article “Is Chronotherapy for Hypertension Management Overlooked? A Review of the Literature” for the journal *Annals of Pharmacotherapy*.

Dr. Victoria Gaydosik

Department of Language and Literature



Supplemental Assistance

Dr. Victoria Gaydosik was awarded \$500 from the Office of Sponsored Programs for her students, Jillian Drinnon and Jessica Cinnamon, to present at the Sigma Tau Delta National Conference in Las Vegas, Nevada.

Dr. Brooke Gildon

Department of Pharmacy Practice



Scholarly and Academic Activity

Dr. Brooke Gildon was appointed to serve on the Continuing Education Committee for the Oklahoma State Board of Pharmacy.

She published her article, "Onasemnogene Apeparvovec-xioi: Gene Therapy for Spinal Muscular Atrophy in the journal, *Annals of Pharmacotherapy*.

She presented workshops titled, "Antibiogram Update and Proper Use" and "Medication Use Evaluations" at The Children's Center Rehabilitation Hospital Presentation in Oklahoma City, Oklahoma.

For the American Society of Health-System Pharmacists, she reviewed multiple manuscripts.

Dr. Gildon presented a workshop titled, "Description of an Antimicrobial Stewardship Program in Pediatric Complex Care" at the Pediatric Complex Care Association Annual Meeting.

She edited a section of the textbook, *Advanced Pediatric Therapeutics*.

She presented a workshop titled, "Patient Education and Communication" for the Pediatric Pharmacy Association Board Certified Pharmacotherapy Specialist Preparatory Course.

Dr. Robin Griffeath

Department of Music



Supplemental Activity

Dr. Robin Griffeath was awarded \$500 from the Office of Sponsored Programs to perform at the Clarinetfest International Clarinet Association Conference in Reno, Nevada.

Dr. Lori Gwyn

Office of Sponsored Programs & Student Success Center



Extramural Activity

Oklahoma Research Day is a consortium event coordinated by Oklahoma's Regional Universities, Oklahoma Research Day was created to be more than merely a celebration of student and faculty research, creative, and scholarly activities. The event was established to create the opportunity for students and faculty from multiple institutions to interact with their counterparts in their respective disciplines. Oklahoma Research Day 2020 was funded by the following:

- The Oklahoma IDeA Network of Biomedical Research Excellence provided \$15,000 from July 1, 2019 to June 30, 2020.
- The Oklahoma Established program to Simulate Competitive Research provided \$5,000 from July 1, 2019 to June 30, 2020.
- The Oklahoma State Regents for Higher Education provided \$30,000 from July 1, 2019 to June 30, 2020.
- The City of Weatherford Hotel/Motel Tax Committee awarded \$3,500 from February 1, 2020 – March 31, 2020. Co-PI's include Ms. Jennifer Cook-Johns and Mr. C.J. Smith.

The U.S. Department of Education awarded \$429,564 to fund the "SWOSU Student Success Center – Year 2" from October 1, 2019 – September 30, 2020. The Title III grant that funds the SWOSU Student Success Center

Mr. Hayden Harrington

Department of Computer Science



Organized Research

Mr. Hayden Harrington was awarded \$1,500 from the Dean of the College of Professional and Graduate Studies for his project, "SWOSU Game Development Conference."

Dr. Aimee Henderson

Department of Rural Health



Extramural Activity

The Oklahoma State Department of Health awarded \$175,000 to fund the “Heart Disease, Stroke, and Diabetes Prevention” project at SWOSU from June 29, 2020 to June 28, 2021. The purpose of this grant is to educate healthcare professionals on the pharmacist’s patient care process and medication therapy management (MTM) core elements to create awareness of the pharmacist’s role in the team and to provide continuing education programs and resources to pharmacists in diabetes and cardiovascular management, prevention, and promotion of MTM with healthcare providers. The Centers for Disease Control and Prevention awarded the Heart Disease, Stroke, and Diabetes Prevention grant for a second year for an additional \$175,000.

Dr. Jon Henrikson

Department of Chemistry and Physics



Extramural Activity

Dr. Henrikson was awarded \$6,000 to fund the project, "Determination of pK_a 's of glycine metal complexes designed for synthesis of natural and unnatural amino acids," by OK-INBRE from June 1, 2020 – July 24, 2020. This project anticipated the validation of methods and determination of the effects that the addition of the electron withdrawing trifluoro-methyl groups have on the acidity (pK_a) of the α -proton of the glycine in the complex form.

Supplemental Assistance

Dr. Henrikson was awarded \$500 from the Office of Sponsored Programs to present at the American Chemical Society National Meeting in Philadelphia, Pennsylvania.

Organized Research

Dr. Henrikson was awarded \$740 from the Dean of the Arts and Sciences for his project, "Determination of Metal Complex pK_a 's by NMR and Visible Spectroscopy." This project provided 180 student research hours.

Ms. Jolie Hicks

Department of Language and Literature



Supplemental Assistance

Ms. Jolie Hicks was awarded \$500 from the Office of Sponsored Programs to present at the South Atlantic Modern Language Association Annual Conference in Albuquerque, New Mexico.

Dr. Christopher Horton

Department of Biological Sciences

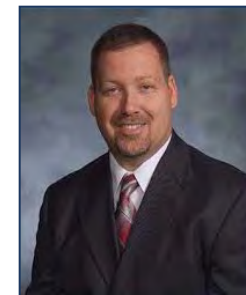


Extramural Activity

Dr. Horton was awarded \$127,929 by the National Institutes of Health through OK-INBRE to fund the project, “Mechanisms Influencing Expression of B7-H4, A Target in Cancer Therapy,” from July 8, 2019 – April 30, 2020. The information found from examining the intricate mechanisms with B7-H4 expression could potentially lead to novel therapeutic targets capable of treating a wide array of human malignancies.

Dr. Timothy Hubin

Department of Chemistry and Physics



Extramural Activity

The “Louis Stokes Alliance for Minority Participation in Science, Mathematics, Engineering and Technology (OK-LSAMP)” grant was awarded in the amount of \$27,024 by the National Science Foundation from May 4, 2020 – August 31, 2020. The LSAMP-STEM program at SWOSU is designed to address the underrepresented minority students pursuing advanced degrees in science, mathematics, engineering and technology. The ultimate goal of LSAMP-STEM is to encourage minority students to pursue advanced degrees leading to research or teaching positions.

OK-INBRE awarded \$2,000 to fund the project, “ACS Philadelphia Spring 2020,” from September 1, 2019 – April 30, 2020. This gave Dr. Hubin and his students an opportunity to travel to Philadelphia, PA and present their research poster, “Developing methods to cross-bridged pentaazamacrocycles,” at the American Chemical Society Meeting.

The American Chemical Society Petroleum Research Fund awarded \$23,333 to fund the project, “High valent Pd and Ni complexes of topologically constrained azamacrocycles for catalytic organometallic C-C bond formation,” from July 1, 2019 – August 31, 2022. This project targets Ni and Pd complexes of topologically constrained azamacrocycles that can support high valent oxidation states known to perform organometallic C-C bond formation in the similar, but unconstrained, tetraazamacrocyclic complexes of Mirica.

Supplemental Assistance

Dr. Tim Hubin was awarded \$500 from the Office of Sponsored Programs to present at the American Chemical Society National Meeting in Philadelphia, Pennsylvania.

Dr. E.K. Jeong

Department of Art Communication & Theatre



Supplemental Assistance

Dr. E.K. Jeong was awarded \$500 from the Office of Sponsored Programs to present at the 11th Asian Conference on Arts and Humanities in Tokyo, Japan.

Organized Research

Dr. Jeong was awarded \$739.45 from the Dean of the Arts and Sciences for her project, "Efficacy of Public Arts in the World – Eastern Asia."

Dr. Jeremy Johnson

Department of Pharmacy Practice



Scholarly and Academic Activity

Dr. Jeremy Johnson was elected to serve as the President of the Oklahoma Society of Health-System Pharmacists.

He reviewed the articles, “Diabetic Gastroparesis: A Review” and “Pharmacist Provided Diabetes Education and Management in a Diverse, Medically Underserved Population” for the journal, *Diabetes Spectrum*.

Dr. Johnson also presented the following posters at the 2019 American Society of Health-System Pharmacists Mid-Year Clinical Meeting in Las Vegas, Nevada:

- “Clinical Pharmacists’ Application of Clinical Practice Guidelines for Hypertension, Cholesterol, and Asthma”; &
- Probable Dapagliflozin-Associated Acute Pancreatitis: A Case Report.”

Dr. Zach Jones

Department of Allied Health Sciences



Supplemental Activity

Dr. Zach Jones was awarded \$250 from the Office of Sponsored Programs for his student, Olga Castaneda, to present at the Geological Society of America 2019 Conference in Phoenix, Arizona.

Dr. Daniel Kavish

Department of Social Sciences



Supplemental Assistance

Dr. Daniel Kavish was awarded \$500 from the Office of Sponsored Programs to present at the American Society of Criminology Conference in San Francisco, California.

Dr. Daniel Kavish was also awarded an additional \$750 from the Office of Sponsored Programs for his students Jazmine Niles, Alberto Manzano, and Lauren Buzbee, to present at the Southwestern Association of Criminal Justice Annual Conference in Houston, Texas.

Scholarly and Academic Activity

Dr. Daniel Kavish published his article, "Sorry Lawmakers, but Police and Laws Do Not Control Crime" in the electronic publication, *Imagining Justice*.

He presented the following papers the American Society of Criminology Annual Meeting in San Francisco, California:

- "Continued Criminality: A Structural Equation Model of Juvenile Delinquency, Formal Labeling, and Adult Criminality"
- "Streetlife and Masculinities"
- "Crossing the Line: California's War on Ferrets"

He was the chair of a session titled, "Quantitative Convict Criminology" at the American Society of Criminology Annual Meeting in San Francisco, California.

He served as Guest Editor for a special issue of the journal, *Societies* titled "Identity, Stigma, and Social Reaction."

Dr. Daniel Kavish (cont.)

He reviewed the article “Sociology at the End of History: Profession, Vocation, and Critical Practice” for the author Daniel Harrison.

Dr. Kavish authored the chapters “Myra Bradwell” and “Heidi Fleiss” for The Encyclopedia of Women and Crime.

He was interviewed for Diana Bruk’s article “12 Ways to Get Help if You’re a Victim of Domestic Abuse,” published on BestLifeOnline.com.

He presented his paper, “In The Pool Without a Life Jacket: Status Fragility and Criminological Academics With a Felony Conviction” at the Convict Criminology For the Future – International Conference in Padua, Italy.

Dr. Kavish was also interviewed for Veronica Freeman’s article “One Size Doesn’t Fit All: Choosing a College Major,” published on BestColleges.com.

Organized Research

Dr. Kavish was awarded \$1,887 from the Dean of the Arts and Sciences for his project, “In the Pool Without a Life Jacket: Status Fragility.” This project created 100 student research hours.

Dr. Jeremy Klingler

Department of Biological Sciences



Organized Research

Dr. Jeremy Klingler was awarded \$626 from the Dean of the College of Arts and Sciences for his project, “Vertebrate Paleobiology.”

Dr. Sunu Kodumthara

Department of Social Sciences



Supplemental Assistance

Dr. Sunu Kodumthara was awarded \$500 from the Office of Sponsored Programs to present at the National Social Science and Technology Conference in Las Vegas, Nevada.

Dr. Sunu Kodumthara was also awarded an additional \$250 from the Office of Sponsored Programs for her student, Dawson Holloway, to present at the National Social Science and Technology Conference in Las Vegas, Nevada.

Dr. Howard Kurtz

Department of Social Sciences



Organized Research

Dr. Howard Kurtz was awarded \$740 from the Dean of the College of Arts and Sciences for his project, “Will Teachers Shoot.”

Dr. Denise Landrum-Geyer

Department of Language and Literature



Supplemental Assistance

Dr. Denise Landrum Geyer was awarded \$500 from the Office of Sponsored Programs to present at the National Council on Undergraduate Research Conference in Bozeman, Montana.

She was also awarded an additional \$500 for her students, Hope Brown and Kristi Celestine, to present at the National Council on Undergraduate Research Conference in Bozeman, Montana.

Dr. ChihChen Sophia Lee

Department of Music



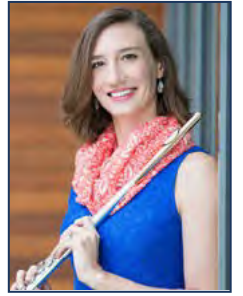
Supplemental Assistance

Dr. Sophia Lee was awarded \$500 from the Office of Sponsored Programs to present at the American Music Therapy Association Conference in Minneapolis, Minnesota.

Dr. Lee was also awarded an additional \$1,000 from the Office of Sponsored Programs for her students Leticia Castro, Morgan Corona, Rui-Zuan (Sherry) Zhang, and Betty Steelman, to present at the American Music Therapy Association Conference in Minneapolis, Minnesota.

Dr. Shelley Martinson

Department of Music



Extramural Activity

The Kirkpatrick Foundation awarded \$750 to fund “SWOSU Flute Day” from October 1, 2019 - October 27, 2019. Flute Day features a guest artist recital, regional and all-state etude clinics, Flute Olympics, clinics, flute choir, and one-on-one mini-lessons available for attendees. The purpose of this grant was for public service.

Supplemental Assistance

Dr. Shelley Martinson was awarded \$500 from the Office of Sponsored Programs to perform at the Flute New Music Consortium New Musical Festival in Stony Brook, New York.

Dr. Shelley Martinson was awarded \$500 from the Office of Sponsored Programs for her students, Tiffany Piper and Jennifer (Hayden) Stephenson to intern and perform at the National Flute Association Convention in Salt Lake City, Utah.

Dr. Phillip Martinson

Department of Music



Organized Research

Dr. Phillip Martinson was awarded \$2,000 from the Dean of the College of Arts and Sciences for his project, “Cultivating a Repertoire: New Music for Wind Duo.”

Dr. David Martyn

Department of Chemistry and Physics



Supplemental Assistance

Dr. David Martyn was awarded \$500 from the Office of Sponsored Programs to present at the 28th Annual American Chemical Society National Meeting in San Diego, California.

Dr. Regina McGrane

Department of Biological Sciences



Extramural Activity

For the project, “Microbiology Outreach,” \$2,500 was awarded by the American Society of Microbiology lasting from April 1, 2020 – December 31, 2020. Through this project, Dr. McGrane, partnered with Dr. Lisa Appeddu, purchased supplies for microbial ecology and agar art workshops, purchased microbiology kits and foldscopes for teachers attending educators workshops, purchased promotional items to raise awareness among Oklahoma educators and STEAM professionals about ASM membership and opportunities during the SAGE STEAM Camp and the 2020 Women in Science Conference.

The Oklahoma State Regents for Higher Education, through OK-INBRE, awarded \$7,804 to fund the project, “Developing an inquiry-based Applied Microbiology course employing flipped classroom design,” from May 20, 2020 – August 20, 2020. Through this project, the instructor of the course plans to implement a flipped classroom design that has the potential to be impactful because by means of activities, discussions, and projects designed to promote active engagement in learning and critical thinking.

\$550 was awarded by the Tribeta Biological Honors Society to fund the project, “Investigating the effects of bactericidal biosurfactants of eukaryotic organisms,” from November 19, 2019 – June 21, 2020. This grant allowed Dr. McGrane and her student to test the hypothesis that when small eukaryotic organisms are exposed to syringafactin, the organisms will be killed.

Organized Research

Dr. McGrane was awarded \$2,000 from the Dean of the Arts and Sciences for her project, “Antimicrobial Properties of Phytopathogen Biosurfactants.” This project created 80 student research hours.

Dr. Holly McKee

Department of Social Sciences



Organized Research

Dr. Holly McKee was awarded \$408 from the Dean of the College of Professional and Graduate Studies for her project, "Survey Monkey Software Annual Fee."

Doug Misak

Business Enterprise Center



Extramural Activity

The Regents Business Partnership Excellence Award is designed to highlight successful partnerships and to further cultivate the higher learning environment through State Regents' Economic Development Grants. The "Partnership Recognition Program FY20" awarded \$500 by the Oklahoma State Regents for Higher Education from March 12, 2020 – June 30, 2020. The purpose of this grant is public service.

Mr. Frederic Murray

Al Harris Library



Supplemental Assistance

Mr. Frederic Murray was awarded \$322 from the Office of Sponsored Programs to present at the Thirteenth Native American Symposium: Native Legacies in the 21st Century in Durant, Oklahoma.

Scholarly and Academic Activity

Mr. Murray presented his paper “Validity & Voice in Native American Comics” at the Native American Symposium: Native Legacies in the 21st Century in Durant, Oklahoma.

Ms. Jonna Myers

Department of Business



Supplemental Assistance

Ms. Jonna Myers was awarded \$500 from the Office of Sponsored Programs to present at the Accreditation Council for Business Schools and Programs Annual Conference in Chicago, Illinois.

Organized Research

Ms. Myers was awarded \$2000 in Organized Research funding from the Dean of the College of Professional and Graduate Studies for her project, "Data Scraping for Faculty Development: 'Better Than Magic: Web-scraping as a Brand Analysis Tool for Business Professors.'" This project created 95 student research hours.

Ms. Jamie Novey

Upward Bound



Extramural Activity

The “Upward Bound Grant Proposal” was funded by the U.S. Department of Education for the amount of \$435,437 from September 1, 2019 – August 31, 2020. Upward Bound (UB) is a federally funded program that provides fundamental support to participants in their preparation for college entrance. It provides opportunities for participants to succeed in their precollege performance and ultimately in their higher education pursuits. During the school year, students attend monthly academic meetings and participate in an online tutoring program. During the summer, students live on the SWOSU campus and participate in a full schedule of academic, social (including sports), and cultural activities for six weeks. During the school year and summer, students will also receive personal and academic counseling, assistance with financial aid and college admission applications, preparation for the ACT, an ACT fee waiver, will visit college campuses, and will be exposed to professional careers and mentors.

Dr. Dana Oliver

Department of Education

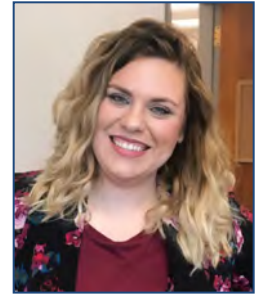


Supplemental Assistance

Dr. Dana Oliver was awarded \$500 from the Office of Sponsored Programs to present at the 2019 Critical Questions in Education Symposium in Chicago, Illinois.

Dr. Taylor Orgeron

Department of Language and Literature



Supplemental Assistance

Dr. Taylor Orgeron was awarded \$500 from the Office of Sponsored Programs to present at the South Atlantic Modern Language Association Annual Conference in Atlanta, Georgia.

Scholarly and Academic Activity

Dr. Taylor Orgeron presented her paper, “The (digital) Book and the (disabled) Body: Procedural Language for Embodied Storytelling” at the South Atlantic Modern Language Association 91st Annual Conference in Atlanta, Georgia.

Dr. Orgeron presented her paper “Whose Fantasy? Toxic Masculinities in Video Games” at the Southwestern Popular Culture American Culture Association Annual Conference in Albuquerque, New Mexico.

Dr. Orgeron also published her article, “Reading at Scale: Teaching with Voyant” in the electronic publication, *Digital Texts, and Textual Data: A Pedagogical Anthology*.

Dr. Patsy Parker

Department of Computer Science



Organized Research

Dr. Patsy Parker was awarded \$3,000 from the Dean of the College of Professional and Graduate Studies for her projects, “ACBSP Region 6 Conference” and “Department of Business Accreditation.”

Dr. Edna Patatanian

Department of Pharmacy Practice



Scholarly and Academic Activity

Dr. Edna Pantanian reviewed the case report “Severe Olanzapine-Induced Akathisia” in *BMJ*.

She reviewed the article “Reduced Gray Matter Volume and Risk of Falls in Parkinson’s Disease with Dementia Patients: A Voxel-Based Morphometry Study.”

She reviewed the article, “Infertility Management and Pharmacotherapy: What Every Pharmacist Should Know” for the *Journal of Pharmacy Practice*.

She reviewed the following articles for the journal *Antibiotics*:

- “The Effectiveness of Chlorhexidine and Air Polishing System in the Treatment of Candida Albican Infected Dental Implants: An Experimental In-Vitro Study”;
- “Tedizolid vs. Linezolid for the Treatment of Acute Bacterial Skin and Skin Structure Infection: A Systemic Review and Meta-Analysis”; &
- “Antibiotic Delivery to Treat Skin Infections When Innate Antimicrobial Defense Fails.”

Dr. Patatanian also reviewed the following articles for the journal *Diabetes Therapy*:

- “Development and Validation of a New Diabetes Risk Score in Guyana”
- “Effectiveness of Video-Based Lifestyle Education Program Compared to Usual Care in Improving HbA1c and Other Metabolic Parameters in Individuals with Type 2 Diabetes: An Open-Label Parallel Arms Randomized Control Trial”

Dr. Edna Patatanian (Cont.)

-“Efficacy and Safety of Dulaglutide by Baseline HbA1c in Chinese Patients with Type 2 Diabetes: A Post Hoc Analysis”;

-Vildagliptin vs. Alpha-Glucosidase Inhibitor as Add-On to Metformin for Type 2 Diabetes: Subgroup Analysis of the China Prospective Diabetes Study”;

-“Does Renal Function or Heart Failure Diagnosis Affect Primary Care Prescribing for Sodium-Glucose Co-transporter-2 Inhibitors in Type 2 Diabetes”; &

-“Real-World Effectiveness of Liraglutide vs. Sitagliptin Among Patients Enrolled in Medicare Advantage Prescription Drug Program.”

Dr. Anne Pate

Department of Allied Health



Organized Research

Dr. Anne Pate was awarded \$1,920 from the Dean of the College of Professional and Graduate Studies for her project, "Health Statistics Research Posters." This project provided approximately 720 student research hours.

Dr. Brian Rickel

Department of Computer Science



Supplemental Assistance

Dr. Brian Rickel was awarded \$500 from the Office of Sponsored Programs to present at the National Social Science and Technology Conference in Las Vegas, Nevada.

Dr. Pamela Rollins

Department of Allied Health



Organized Research

Dr. Pamela Rollins was awarded \$1367.25 from the Dean of the College of Arts and Sciences for her project, “The Transformative Tides of Online Pedagogy: Teaching Presence and Identity.”

Ms. Jessica Salmans

Department of Art, Communication, and Theatre



Organized Research

Ms. Jessica Salmans was awarded \$2,000 from the Dean of the College of Arts and Sciences for her project, “PhD Research: Theatre and Other Public Performances by the Victims of the Holocaust During Their Time in the Camps and Ghettos/Policies and Legislation passed by the Third Reich Targeting Artists from 1932-1939.”

Dr. Mapopa Sanga

Center for Excellence in Teaching and Learning



Supplemental Assistance

Dr. Mapopa Sanga was awarded \$500 from the Office of Sponsored Programs to present at the Association for Education, Communication, and Technology Convention in Las Vegas, Nevada.

Scholarly and Academic Activity

Dr. Sanga published his article, “Doing Instructional Design for Distance Education: An Analysis of Design and Technological Issues in Online Course Management” in the journal *Quarterly Review of Distance Education*.

Dr. Horrick Sharma

Department of Pharmaceutical Sciences



Extramural Activity

Metabolic reprogramming is considered as one of the hallmarks of cancer. Warburg effect reflects a switch from OSPHOS to aerobic glycolysis and is one of the fundamental changes that occur in many tumor cells. The goal is to develop novel inhibitors of LDHA and identify dual LDHA-LAT 1 targeting conjugates, using a linker or a prodrug-like approach. It is hypothesized that the dual-acting compounds of the proposal can target two critical metabolic dependencies of cancer cells, the Warburg effect and amino acids mediated cell growth, to exert synergistic anticancer effect. This project was funded by the Idea Network for Biomedical Research Excellence through the National Institutes of Health for, “Developing of Small Molecules Targeting Cancer Metabolism (Year 2)” for the amount of \$154,619. May 1, 2020 – April 30, 2021.

Dr. Pragya Sharma

Department of Biological Sciences



Organized Research

Dr. Pragya Sharma was awarded \$496.79 from the Dean of the College of Arts and Sciences for her project, "Cell Biology."

Dr. Randall Sharp

Department of Pharmacy Practice



Scholarly and Academic Activity

Dr. Randall Sharp reviewed the article, “Patient-Reported Barriers to Statin Adherence: Excerpts **from** a Motivational Interviewing Intervention in Older Adults” for the *Journal of American Pharmacists Association*.

Dr. Vijay Somalinga

Department of Biological Sciences



Extramural Activity

OK-INBRE awarded \$6,000 to fund the project, “Ti homology modeling and purification of beta-carbonic anhydrase from *Streptococcus sanguinis*, an opportunistic pathogen involved in a subacute infective endocarditis,” from June 1, 2020 – July 24, 2020. The goal of this project is biochemical and structural characterization of SSA_0809, a putative enamine deaminase from *S. sanguinis* and to elucidate its role during subacute infective endocarditis.

The project, “Biochemical and structural characterization of DPS1 from *Rhodococcus jostii* RHA1,” was awarded \$525 by the Tribeta Biological Honors Society from November 1, 2019 – May 31, 2020. The goal of this study is to characterize the putative Dps protein for its potential use in biotechnological applications.

Supplemental Assistance

Dr. Vijay Somalinga was awarded \$500 from the Office of Sponsored Programs to present at the American Society for Microbiology 2020 Conference in Chicago, Illinois.

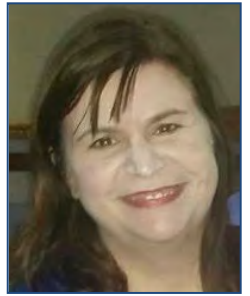
Dr. Somalinga was awarded an additional \$250 from the Office of Sponsored Programs for his student, Emily Bedea, to present at the American Society for Microbiology 2020 Conference in Chicago, Illinois.

Organized Research

Dr. Somalinga was awarded \$2,000 from the Dean of the College of Arts and Sciences for his project, “Biochemical and Structural Charactericasion of Beta-Carbonic Anhydrases from *Streptococcus Sanguinis* and *Rhodococcus hoagie*”

Dr. Debra Stevens

Department of Pharmacy Practice



Scholarly and Academic Activity

Dr. Debra Stevens published her article, "Intentional Ingestion of Hand Sanitizer in an Adult Psychiatric Unit," in the journal *Mental Health Clinician*.

Dr. Stevens reviewed the article, "Onasemogene Abeparvovec-Xioi: Gene Therapy for Spinal Muscular Atrophy" for the journal *Annals of Pharmacotherapy*.

Dr. Dennis Thompson

Department of Pharmaceutical Sciences



Scholarly and Academic Activity

Dr. Dennis Thompson published the following articles in the *Journal of the American College of Clinical Pharmacy*:

-“Altmetrics: Not Ready for PrimeTime?”

-“Publication Records and Bibliometric Indices of Post Professional Pharmacy Fellowship Directors”

Dr. Richard Tirk

Department of Music



Extramural Activity

The Oklahoma Arts Council awarded \$5,000 to fund the “51st Annual SWOSU Jazz Festival” from February 1, 2021 – April 30, 2021. The purpose of the SWOSU Jazz Festival is to help develop a better appreciation and understanding of jazz among the university faculty, public school teachers, students, and the general public in Oklahoma. Through the SWOSU Jazz Festival, the goal is to give students, teachers, and the public an opportunity to hear and talk to internationally-known jazz artists, and give the university students and faculty an opportunity to perform with outstanding jazz artists.

Supplemental Assistance

Dr. Richard Tirk was awarded \$500 from the Office of Sponsored Programs to perform at the Clarinetfest International Clarinet Association Conference in Reno, Nevada.

Dr. Tirk was also awarded an additional \$1,750 from the Office of Sponsored Programs for his students, Alex Davis, Jordan Duff, Gary Hoover, Jeremiah Cross, Aaron Edge, Tommy Smith, and Dustin Gorney to perform at the International Trumpet Guild Conference in Miami, Florida.

Scholarly and Academic Activity

Dr. Tirk performed at the International Trumpet Guild Conference in Miami, Florida.

Dr. Matthew Tracy

Department of Music



Supplemental Assistance

Dr. Matthew Tracy was awarded \$500 from the Office of Sponsored Programs to perform at the United States Navy International Band Symposium in Washington, D.C.

Organized Research

Dr. Tracy was awarded \$2,000 from the Dean of the College of Arts and Sciences for his project, "New Music Commission: Saxophone Duo and Live Electronic Sound."

Dr. Muatasem Ubeidat

Department of Biological Sciences



External Activity

OK-INBRE awarded \$20,000 to fund the project, “Students Biomedical Research Projects at Southwestern Oklahoma State University Departments of Biology and Chemistry,” from May 1, 2020 – April 30, 2021. The focus of this project is researching Genetic Investigation of the Impact of Single Nucleotide Polymorphism (SNP) on Caffeine Metabolism, studying the proteins SSA_2154, SSA_0908 to design better inhibitors that can be used to treat *S. sanguinis* infections and various biomedical research projects within the SWOSU Chemistry Department. Co-PI's include Drs. Tim Hubin and Vijay Somalinga.

Dr. Cheri Walker

Department of Pharmacy Practice



Scholarly and Academic Activity

Dr. Cheri Walker reviewed the article, “Early Initiation of Thromboembolic Prophylaxis in Trauma Patients With High-Grade Blunt Liver and Splenic Lacerations is Not Associated With Increased Rates of Failure of Nonoperative Management,” in the journal *Pharmacotherapy*.

She also reviewed the following articles for the journal *Annals of Pharmacotherapy*:

- “Sedation, Analgesia, and Paralysis in Mechanically Ventilated COVID-19 Patients in the Setting of Drug Shortages”; &
- “Onasemogene Abeparvovec-Xioi: Gene Therapy for Spinal Muscular Atrophy”

Dr. Todd Wigger

Department of Business



Supplemental Assistance

Dr. Todd Wigger was awarded \$500 from the Office of Sponsored Programs to present at the Southern Management Association Conference in Norfolk, Virginia.