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MURRAY STATE
UNIVERSITY

Fall 2017 - Vol. 25

A Word from the Director

Did you know that the Office of Sponsored Programs can help you with your grant proposal? By contacting OSP as soon as you decide to submit a proposal, you can get help in developing your proposal and your budget. OSP's staff has years of experience working with grants from most federal, state and even private funding agencies.

John A. Roark, Jr.

OSP Spotlight

Dr. Rachel Whittaker and Dr. Kasey Clear

Kentucky National Science Foundation EPSCoR Grants

Dr. Rachel Whittaker's grant will support her work on iron-catalyzed 1,3-amino alcohol synthesis. 1,3-amino alcohols are present in many biologically relevant molecules, including those with potential anti-Alzheimer's activity. They are also synthetically useful intermediates for organic chemists. Few methods exist to access this motif in a mild, efficient manner, since most strategies rely on harsh conditions or costly catalysts. This project focuses on the development of an iron-catalyzed method that A) explores a milder, more cost-efficient synthesis of 1,3-amino alcohols from readily available starting materials, and B) expands the scope of established iron chemistry. The further development of iron-catalysis reduces chemists' dependence on harsh, stoichiometric reagents or expensive, scarce 2nd and 3rd row transition metals. Overall, this reaction is atom-economical and net redox neutral, making it greener than current approaches. Green chemistry reduces chemical waste, limiting the potential for contamination of soil and water. This project engages Murray State undergraduate and graduate students in research, by allowing them to gain experience in synthesizing organic molecules and optimizing reaction conditions.

Dr. Kasey Clear's grant will support synthesizing and studying fluorescent sensors that detect a class of lipids, which cells use as chemical messengers. Cells use lipids for storing energy, forming cellular compartments, and sending chemical messages to help regulate cellular processes. Negatively charged lipids, such as the phosphatidylinositol lipids, are chemical messengers that play a crucial role in cellular signaling, and they are involved in a multitude of diseases. Thus, sensors that can recognize lipids in biological membranes can be used in studies of biochemical mechanisms and as diagnostic tools in biomedical applications. The ideal sensor would be able to readily enter cells, show the location of these lipid messengers in cells, and shed light on their interactions with other biological molecules. The Clear group will conduct fundamental studies on the interaction of fluorescent synthetic lipid receptors with the target lipids in cell membrane mimics (liposomes). The studies aim to better understand the receptor features that promote 1) selective recognition of the lipids, 2) favorable membrane permeability, and 3) optimal fluorescent response. This research contributes to fundamental knowledge that will be beneficial for molecular imaging and understanding of signaling pathways and lipid dynamics. The work also provides exciting research opportunities in organic synthesis and biophysical studies and includes the active participation of Murray State University students. The EPSCoR startup funding is essential for equipping the laboratory with materials and instrumentation for carrying out these and future studies.

Raymond Sims, Adolescent, Career and Special Ed., Minority Educator Recruitment and Retention Scholarship (MERR), KY Dept. of Education, \$130,000

Barbara Washington, Adolescent, Career and Special Ed., Alternative Special Education Certification, KY Dept. of Education, \$140,000

Perkins Leadership, KY Dept. for Technical Education, \$17,500

David Ferguson, Agriculture, Effect of Honey Bees on the fruiting characteristics of soybeans, Kentucky Soybean Board, \$2,500

Brian Parr, Agriculture, Study Feeding Hemp-Based Protein Supplement to Poultry, Kentucky 21st Century Agri LLC, \$18,144

Building Capacity for Climate Change Education (CCE) and Expanding Research Opportunities in Rural Communities in TN and KY, UT Martin, \$121,552

Melissa Stokes, AHEC, AHEC, UofL Research Foundation, \$243,920

Alexey Arkov, Biological Sciences, Are Brain and Germline Similar? Tudor Protein as a Regulator of Brain Transcriptome, KY Science & Engineering Foundation, \$50,000

RUI: Role of Germ Cell Nanoparticles during Germline Specification in *Drosophila*, National Science Foundation, \$695,254

Dayle Sarr, Biological Sciences, Collaborative Research: Upper Delta Region Biodiversity Scholarship, National Science Foundation/Arkansas State University, \$163,043

Debbie Reed, Breathitt Veterinary Center, NAHLN-KY, US Dept. of Agriculture, \$121,031

CVM Vet-LRN Veterinary Diagnostic Laboratory, Food and Drug Administration, \$25,000

Rabies Testing, KY Cabinet for Public Health, \$12,000

Kevin Miller, Chemistry, 'Click' Ploy(ionic liquid) Networks for Electrochemical Energy Applications, KY Science and Engineering Foundation, \$25,000

Susana Bloomdahl, Educational studies, Leadership and Counseling, Next Generation Leadership Fellowship, KY Dept. of Education, \$45,000

Bassil El-Masri, Geosciences, A Long-Term Monitoring Network in Kentucky: Linking Climate Change to Carbon and Water Use Efficiency, and Soil Properties, KY Space Grant Consortium, \$34,668

Heath Keller, Management, Marketing and Business Administration, Real Estate Education Project 2017-2018, KY Real Estate Commission, \$20,000

Dina Byers, Nursing, Nurse Anesthetist Traineeship, Health Resources and Services Administration, \$28,490

Chris Wooldridge, SBDC, University of Kentucky Small Business Development Center, \$80,895

MeLissa Cooper, SSS, Student Support Services, US Dept. of Education, \$269,570

Student Support Services, US Dept. of Education, \$10,000

Alesa Walker, Teacher Education Services, KTIP 17-18, Education Professional Standards Board, \$56,545

Tamra Dodson, Training Resource Center, PCWCP, Eastern KY University (EKU), \$10,094

Independent Living, EKU, \$234,660

Resource Parent Training, EKU, \$100,616

Cultural Diversity, EKU, \$4,601

University Training Consortium, EKU, \$10,331

Training Resource Center—Network, EKU, \$385,895

Adoption Promotion and Support, EKU, \$12,573

Leslie Furches, VPAA, McNair Scholars Program, US Dept. of Education, \$237,544

Don Robertson, VPSA, Talent Search Kentucky, US Dept. of Education, \$246,000

Talent Search Missouri, US Dept. of Education, \$246,000

Upward Bound - Christian County, US Dept. of Education, \$257,500

Upward Bound—Charleston, US Dept. of Education, \$257,500

Chad Lampe, WKMS, Youth Ensemble and Classical Music, Carson-Myre Charitable Foundation, \$8,000

Grant and Contract Activity

Barbara Washington, Adolescent, Career and Special Ed., KY Dept. for Technical Education

David Ferguson, Agriculture, Kentucky Soybean Board

Naveen Musunuru, Agriculture, US Dept. of Agriculture (2)

Melissa Stokes, AHEC, UofL Research Foundation

Alexey Arkov, Biological Sciences, National Institutes of Health

Oliver Beckers, Biological Sciences, National Science Foundation

Rachel Allenbaugh, Chemistry, National Science Foundation

Susana Bloomdahl, Educational Studies, Leadership and Counseling, KY Dept. of Education

Marcie Venter, Geosciences, National Geographic Society

Robin Zhang, Geosciences, National Science Foundation

Jennifer Earls, Education, KY Dept. of Education

Elizabeth Donovan, Mathematics and Statistics, University of Oregon

Aleck Leedy, Engineering, Institute of Electrical and Electronics Engineering

Cindy Clemson, Education, Office of Vocational Rehabilitation

MeLissa Cooper, Student Support Services, US Dept. of Education

Alesa Walker, Teacher Education Services, Education Professional Standards Board

Don Robertson, VPSA, US Dept. of Education, (2)

Chad Lampe, WKMS, Carson-Myre Charitable Foundation

Howard Whiteman, Watershed Studies Institute, The Nature Conservancy

Funding Opportunities

Those deadlines marked by an asterisk (**) are tentative. In some cases, these are specific dates that may change depending on the timing of the deadline notices and in others, we have listed just the month during which a deadline is expected. Deadlines marked by a double plus sign (++) are target dates. For a program summary please contact John Roark, jroark3@murraystate.edu,

**Arts, Humanities,
International**

American Antiquarian Society
[Long Term/Short Term Visiting Academic Research Fellowships - Jan 15, 2018](#)

American Research Institute in Turkey
[ARIT Fellowships in the Humanities and Social Sciences - Nov 01, 2017](#)

[National Endowment for the Humanities Fellowships for Research in Turkey - Nov 01, 2017](#)

Chiang Ching-kuo Foundation
[American Region Grants and Fellowships - Jan 15, 2018](#)

Council of American Overseas Research Centers
[Multi-Country Research Fellowship Program - Jan 31, 2018](#)

German Studies Association
[Berlin Program for Advanced German and European Studies - Dec 01, 2017](#)

Houghton Library
[Visiting Fellowships - Jan 12, 2018](#)

Institute of International Education
[Boren Awards for International Study - Jan 30, 2018](#)

Longview Foundation
[Grants Program \(Global Education/International Understanding\) - Jan 18, 2018](#)

National Archives and Records Administration
[National Historic Publications & Records Commission - Jan 18, 2018](#)

National Endowment for the Humanities
[Digital Humanities Advancement Grants - Jan 16, 2018](#)

[Media Projects: Development and Production Grants - Jan 10, 2018](#)

[National Digital Newspaper Program - Jan 11, 2018](#)

[Public Humanities Projects - Jan 10, 2018](#)

Samuel H. Kress Foundation
[Kress Fellowships - Jan 22, 2018](#)

[Kress Grants - Jan 15, 2018](#)

UCLA Institute of American Cultures
[Visiting Scholar and Visiting Researcher Program in Ethnic Studies - Jan 11, 2018](#)

W.F. Albright Institute of Archaeological Research (Jerusalem)
[Fellowships in Ancient Near Eastern Studies - Jan 15, 2018 ++](#)

**Education, Economics/
Community Development**

American Association of Family and Consumer Sciences
[Award, Grant, Fellowship & Scholarship Program - Jan 08, 2018](#)

American Association of University Women Educational Foundation
[Community Action Grants - Jan 15, 2018](#)

American Educational Research Association
[AERA Grants Program - Jan 17, 2018](#)

American Hotel and Lodging Educational Foundation
[Research Project Funding and Academic Scholarships - Jan 01, 2018](#)

American Political Science Association
[Congressional Fellowship Program - Dec 04, 2017](#)

Congressional Hispanic Caucus Institute
[Public Policy Fellowships, Congressional Internships, and Scholarships - Dec 01, 2017](#)

Corporation for National and Community Service
[AmeriCorps State and National - Jan 17, 2018](#)

Economic History Association
[Graduate Fellowships and Grants - Jan 15, 2018](#)

Foundation for Food and Agriculture Research
[Research Programs - Jan 2018 ++](#)

International Reading Association
[Awards and Grants Program - Jan 2018 **](#)

Morris K. Udall Foundation
[Native American Congressional Internships \(Undergraduate/Graduate\) - Jan 31, 2018](#)

National Council of Teachers of English
[Research Foundation Programs - Jan 31, 2018](#)

U.S. Department of Commerce
[Economic Development Assistance Programs - Jan 2018 ++](#)

U.S. Department of Housing and Urban Development
[Research Partnerships: Unsolicited Research Proposals - Jan 2018 ++](#)

U.S. Social Security Administration
[Small Grant Programs - Jan 31, 2018](#)

VentureWell
[Grants Program - Nov 08, 2017](#)

Health, Mental Health, Nursing

Agency for Healthcare Research and Quality
[Health Services Research Demonstration and Dissemination Grants \(R18\) - Jan 25, 2018](#)

American Academy of Family Physicians
[Joint Grants, Research Stimulation Awards and Visiting Professorships - Jan 09, 2018](#)

American Federation for Aging Research
[AFAR Grant Programs - Dec 15, 2017](#)

American Gastroenterological Association (AGA) Research Foundation
[Research Awards, Grants, & Fellowships - Jan 12, 2018](#)

American Psychological Association
[APA Congressional Fellowship Program - Jan 05, 2018](#)

[Minority Fellowship Programs - Jan 15, 2018](#)

American Society of Hematology
[ASH Research Programs and Awards - Jan 15, 2018](#)

American Sociological Association
[Minority Fellowship Program in Sociology of Mental Health - Jan 31, 2018](#)

Crohn's and Colitis Foundation of America
[Research Awards - Nov 01, 2017](#)

Cystic Fibrosis Foundation
[Research and Training Grants - Dec 01, 2017](#)

Doris Duke Charitable Foundation
[Medical Research - Dec 01, 2017 **](#)

Foundation for Physical Therapy
[Grants, Doctoral Scholarships & Awards - Jan 10, 2018](#)

Health Resources and Services Administration
[Nurse Faculty Loan Program \(NFLP\) - Nov 28, 2017](#)

Howard Hughes Medical Institute
[Medical Research Fellowship Program - Jan 11, 2018](#)

James McKeen Cattell Fund
[Supplemental Sabbatical Awards for Psychologists - Jan 15, 2018](#)

McKnight Endowment Fund for Neuroscience
[Awards for Neuroscientists - Jan 08, 2018](#)

National Institutes of Health
[Administrative Supplements to Existing NIH Grants and Cooperative Agreements - Jan 2018 ++](#)

[BRAIN Initiative: Development, Optimization, and Validation of Novel Tools - Jan 05, 2018](#)

[Global Brain and Nervous System Disorders Research Across the Lifespan - Nov 07, 2017](#)

[Multidisciplinary Studies of HIV/AIDS and Aging \(R01\) - Jan 07, 2018](#)

[NRSA Institutional Research Training Grants \(T32\) - Jan 25, 2018](#)

[Small Business Innovation Research Grant \(SBIR\) Program - Jan 05, 2018](#)

[Small Business Technology Transfer \(STTR\) Program - Jan 05, 2018](#)

[Platform Delivery Technologies for Nucleic Acid Therapeutics - Jan 05, 2018](#)

[National Cancer Institute Program Project Applications \(P01\) - Jan 25, 2018](#)

[Initiative to Maximize Research Education in Genomics: Courses for Skills Development \(R25\) - Jan](#)

[Social and Behavioral Research - Jan 2018 ++](#)

[Exploiting RNA as a Target for HIV Interventions \(R21\) - Jan 07, 2018](#)

[Harnessing Big Data to Halt HIV \(R01\) - Jan 07, 2018](#)

[Novel Biomarkers for the Development of HIV Incidence Assays \(R01\) - Jan 07, 2018](#)

[Role of Exosomes in HIV Pathogenesis \(R21\) - Jan 07, 2018](#)

[Biomedical Technology Resource Centers \(P41\) - Jan 25, 2018](#)

[AIDS-Science Track Award for Research Transition \(A-START\) \(R03\) - Jan 07,](#)

[2018](#)

[Time-Sensitive Obesity Policy and Program Evaluation \(R01\) - Jan 01, 2018](#)

[Centers of Biomedical Research Excellence \(COBRE\) \(P20\) - Jan 24, 2018](#)

[Postbaccalaureate Research Education Program \(PREP\) \(R25\) - Jan 24, 2018](#)

[Research Education: Initiative for Maximizing Student Development \(IMSD\) \(R25\) - Jan 26, 2018](#)

[Support of Continuous Research \(SCORE\) - Jan 28, 2018](#)

[Exploratory Clinical Trials for Small Business \(R42/44\) - Jan 05, 2018](#)

[NINR: Child and Family Health, and Health Disparities - Jan 2018](#)

[Associate Fellowship Program - Jan 26, 2018](#)

[Development of Novel and Emerging Technologies - Jan 05, 2018](#)

[Research Projects for Development of Animal Models and Related Materials \(R24\) - Jan 25, 2018](#)

Parkinson's Disease Foundation
[International, Postdoctoral, Graduate, and Undergraduate Fellowships - Jan 11, 2018](#)

Society for Research in Child Development
[Policy Fellowships - Dec 15, 2017](#)

U.S. Department of Defense
[Defense Medical Research and Development Program - Nov 20, 2017](#)

U.S. Department of Veterans Affairs
[Research Funding Programs - Jan 2018 **](#)

Science, Technology, Engineering, Mathematics, Agriculture

American Association for the Advancement of Science (AAAS)
[Fellowship Programs - Jan 15, 2018](#)

American Association of University Women Educational Foundation
[Selected Professions Fellowships - Jan 10, 2018](#)

American Astronomical Society
[International Travel Grants - Jan 05, 2018](#)

American Philosophical Society
[Lewis and Clark Fund for Exploration and Field Research - Jan 30, 2018](#)

American Statistical Association
[ASA/NSF/Bureau of Economic Analysis - Dec 15, 2017](#)

[ASA/NSF/Bureau of Labor Statistics Fellowship Program - Jan 02, 2018](#)

AT&T Labs
[AT&T Labs Internship Program - Jan 01, 2018 ++](#)

Civilian Research and Development Foundation Global
[Cooperative Grants Program - Jan 2018 **](#)

Environmental Research and Education Foundation
[Grants Program - Jan 06, 2018](#)

Field Museum of Natural History
[Visiting Scholarships, Graduate Fellowships, and Undergraduate Internships - Jan 30, 2018](#)

Lalor Foundation
[Grants and Fellowships - Jan 15, 2018](#)

Leakey (L.S.B.) Foundation
[General Research Grants - Jan 10, 2018](#)

National Aeronautics and Space Administration
[Use of the NASA Physical Sciences Informatics System - Dec 15, 2017](#)

[NASA Space Technology Research Fellowships - Nov 02, 2017](#)

[Research Opportunities in Space and Earth Sciences \(ROSES\) - Jan 2018 **](#)

National Center for Atmospheric Research
[Postdoctoral Fellowships - Jan 06, 2018](#)

National Science Foundation
[Biological Anthropology - Jan 22, 2018 ++](#)

[Division of Environmental Biology \(Core Programs\) - Jan 23, 2018 **](#)

[Long Term Research in Environmental Biology \(LTREB\) - Jan 23, 2018 **](#)

[Division of Integrative Organismal Systems Core Programs - Jan 19, 2018](#)

[Engineering Design and System Engineering \(EDSE\) - Jan 24, 2018](#)

[Centers of Research Excellence \(CREST\) and HBCU Research Infrastructure - Dec 01, 2017 **](#)

[Louis Stokes Alliances for Minority Participation \(LSAMP\) - Jan 26, 2018](#)

[Dynamics, Control and Systems Diagnostics \(DCSD\) - Jan 24, 2018](#)

[Biomechanics and Mechanobiology \(BMMB\) - Jan 24, 2018](#)

[Civil Infrastructure Systems \(CIS\) - Jan 24, 2018](#)

[CMMI Unsolicited Proposals - Jan 24, 2018](#)

[Humans, Disasters, and the Built Environment \(HDBE\) - Jan 24, 2018](#)

[Manufacturing Machines and Equipment \(MME\) - Jan 24, 2018](#)

[Materials Engineering and Processing \(MEP\) - Jan 24, 2018](#)

[Mechanics of Materials and Structures \(MOMS\) - Jan 24, 2018](#)

[Mind, Machine and Motor Nexus - Jan 24, 2018](#)

[Nanomanufacturing \(NM\) - Jan 24, 2018](#)

[Research in the Formation of Engineers \(RFE\) - Jan 24, 2018](#)

[Climate and Large-Scale Dynamics - Jan 2018 **](#)

[Solar and Planetary Research Grants - Jan 2018](#)

[Major Research Instrumentation \(MRI\) - Jan 10, 2018](#)

[Research on the Science and Technology Enterprise: Statistics and Surveys - Jan 16, 2018](#)

[Science of Learning - Jan 17, 2018](#)

[Cultural Anthropology - Jan 16, 2018](#)

[Developmental Sciences - Jan 16, 2018 ++](#)

[Linguistics Programs - Jan 16, 2018 ++](#)

[Social Psychology - Jan 16, 2018 ++](#)

[Decision, Risk, and Management Sciences \(DRMS\) - Jan 18, 2018 ++](#)

[Economics - Jan 18, 2018 ++](#)

[Methodology, Measurement, and Statistics \(MMS\) - Jan 25, 2018](#)

[Political Science - Jan 16, 2018](#)

[Sociology - Jan 16, 2018](#)

[Space Telescope Science Institute Grant Programs - Nov 02, 2017 **](#)

U.S. Department of Agriculture
[Community Food Projects Competitive Grants Program - Dec 04, 2017](#)

[Specialty Crop Research Initiative and Block Grants - Dec 08, 2017](#)

[Sustainable Agriculture Research and Education Program \(SARE\) - Jan 2018 **](#)

U.S. Department of Commerce
[Planning and Local Technical Assistance Programs Opportunity - Jan 2018 ++](#)

[Bay Watershed Education and Training \(B-WET\) - Nov 03, 2017](#)

[Ernest F. Hollings Undergraduate Scholarship Program - Jan 31, 2018](#)

[Coastal Management Fellowship Program - Jan 19, 2018](#)

U.S. Department of Defense
[Broad Agency Announcement for Advanced Aircraft Compatibility Science and Technology](#)

[Cyber Asymmetric Force Applications for Unmanned Aircraft Systems - Jan 31, 2018 ++](#)

[DARPA: Microsystems Technology Office - Nov 06, 2017](#)

[DARPA: Strategic Technology Office - Nov 01, 2017](#)

[DARPA: Young Faculty Award - Dec 04, 2017](#)

[Engineer Research and Development Center - Jan 31, 2018](#)

[National Defense Science and Engineering Graduate Fellowship - Dec 31, 2017](#)

[National Oceanographic Partnership Program \(NOPP\) - Jan 29, 2018](#)

U.S. Department of Energy
[Nuclear Energy University Programs - Fellowship and Scholarship Support - Jan 2018](#)

[Mickey Leland Energy Fellowship - Jan 03, 2018](#)

[DOE Scholars Program - Dec 15, 2017](#)

[Office of Science Graduate Student Research - Nov 16, 2017](#)

U.S. Department of Homeland Security
[DHS Summer Research Team Program for Minority Serving Institutions - Dec 29, 2017](#)

U.S. Department of Transportation
[Transit Cooperative Research Program - Jan 2018 **](#)

Whitehall Foundation
[Grants-in-Aid and Research Grants - Jan 15, 2018](#)

SUBJECT MAILING LISTS

The Office of Sponsored Programs receives notices of funding opportunities daily. We send these opportunities to those faculty and staff who sign up for the mailing lists below. To subscribe to a list please email msu.sponsoredprograms@murraystate.edu. In the email subject line please type the area of your choice from the list above. You are welcome to subscribe to more than one list.

- Arts/Humanities/Social Sciences
- Education
- Health/Mental Health
- Science/Technology/Engineering/Mathematics
- Economic/Community Development
- Agriculture
- Nursing
- International

FUNDING OPPORTUNITY DATABASES

SPIN/SMARTS SPIN is a database of funding opportunities which can be accessed as a funding opportunity search engine. The link can be found on the OSP website in the Funding Opportunity section. SMARTS is a central location for the researcher to house their curriculum vitae details in the form of a profile created by the researcher. Through the profile, the researcher also has access to email updates of funding opportunities tailored to their work. To set up a profile or to update a profile contact access the user guide on the OSP website in the Funding Opportunities page.

Grant Resource Center provides a funding opportunity database that includes private and federal announcements. A link to the Grant Search database is located in the Funding Opportunities section on the OSP website. To obtain the username and password required to access the database email msu.sponsoredprograms@murraystate.edu.

If you:

- need assistance in developing an idea
- need assistance in determining a funder
- would like to submit a proposal
- would appreciate a review of your proposal
- need assistance in preparing a budget
- have questions about external funding

***Contact The Office of Sponsored Programs,
we are here to provide FULL service for YOU!***

John A. Roark, Jr., J.D.

Director

jroark3@murraystate.edu

Kristi Stockdale

Grants Manager/IACUC Coordinator

kstockdale@murraystate.edu

328 Wells Hall, Murray, KY 42071

Phone (270) 809-5336 Fax (270) 809-3535

<http://www.murraystate.edu/SponsoredPrograms>