Office of Research and Grants
FY 2018 Annual Report

Submitted by:
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Section I: The Office of Research and Grants

Overview
The Heritage College houses a diverse, talented and productive array of students, staff, faculty and institutes that are engaged in scholarly works. This report summarizes these research activities, highlighting college-wide accomplishments as opposed to individual contributions. There are several issues to consider when reviewing this document:

- Last fiscal year ended with a change in leadership within the Office of Research and Grants, which is more fully described in subsequent sections. As a result, this fiscal year included listening and learning the needs of the Heritage College faculty, staff and students, evaluation of the office’s current structure and services and implementation of a new organizational structure, processes, programs and services. While this process will be ongoing, many changes were made within the Office of Research and Grants this year, hoping to provide more transparency and efficiency.

- The annual report has evolved over time, including different data in different years. With the exception of external funding, this evolution has not allowed measurement of the progress over time for key outcomes. The Heritage College has made significant investments in bolstering research activities, and the impact that this investment has had on the overall research portfolio needs to be better captured in future years. The Office of Research and Grants is continuing to work with the Department Chairs to determine and implement tracking of appropriate measurable outcomes to evaluate research productivity. For the one variable that has been consistently measured (external funding), the total revenue generated this year ($16.3M) was higher than in the previous report ($12M).

- Activities of Heritage College institutes (Diabetes Institute, Infectious and Tropical Disease Institute, Ohio Musculoskeletal and Neurological Institute) are not included in this report as they engage faculty and staff across the university and not just within the Heritage College. All three institutes housed within Heritage College have a significant focus on research, engage many students and are highly productive (see annual reports of each Institute). Thus, they are a significant research strength, and their collective productivity are a reflection of the research investments made by the Heritage College. Activities of Primary Care Research Initiatives are also summarized in a separate report. However, as only Heritage College faculty and staff are involved in this initiative, the Office of Research and Grants report does duplicate the efforts made collectively by this group.

- With the exception of external funding data, this report only includes the information of those faculty and staff that provided the information to our office. We acknowledge that for many reported items, we have only captured a fraction of the scholarly works from a subset of individuals engaged in research within the college. The list of those that provided information is provided in Appendix A. Efforts to increase participation are being explored. The Office of Research and Grants is working with the Vice President of Research Office to implement Digital Measures, which will be a better means to efficiently
report and compile research data are being explored. Target implementation is during fall semester, 2018.

- The college supports a number of students, both within and outside the college, engaged in research activities. While we have attempted to summarize this information in the current annual report, we appreciate that our data are incomplete, and the impact not fully described. Moreover, the Heritage College has many programs available to support student research that our housed in different units and with inconsistent procedures for funding distribution. We are continuing to work to better understand and streamline these procedures.

The function of this office is to provide a service for all research and scholarly activities to faculty, staff and students of the Heritage College. We continue to identify means to better track and understand the services used and desired by those in the college, which allow us to continue to appropriately align the needs of the colleges with the services being offered by our office.

In conclusion, while there are shortcomings in our methods for gathering and reporting outcomes the following report clearly demonstrates a college that has an impressive array of scholarly works and that is poised to be a leader among osteopathic schools in research.
HERITAGE COLLEGE RESEARCH

FISCAL YEAR 2018 IN REVIEW

$16.3M
IN EXTERNAL FUNDING

10
ISSUED AND ACTIVE PATENTS

154*
PEER-REVIEWED PUBLICATIONS

499
STUDY VISITS IN THE CTRU

120*
TRAINEES INVOLVED IN HERITAGE COLLEGE RESEARCH PROJECTS

119*
STUDY SECTIONS AND OTHER GRANT REVIEWING ACTIVITIES

* Data from Reporting Faculty and Staff only
A. Organization

The Office of Research and Grants is charged with establishing and implementing research strategy and objectives in line with overall College and University priorities, identifying funding resources, expanding core facilities, administering the College research budget, and overseeing the College’s research enrichment activities. Staff members include:

- Darlene Berryman, PhD, RD, LD, Associate Dean for Research and Innovation
- Karen Collins, MPA, Program Manager
- Dina Russell, Administrative Specialist
- Melissa Standley, MEd, Senior Director of Operations
- Jessica Wingett, MA, Executive Director

The Clinical and Translational Research Unit (CTRU) and the Office of Advanced Studies also fall under the umbrella of the Office of Research and Grants (ORG). CTRU staff members include:

- Crystal Brooks, BS, Clinical Research Associate/Laboratory Manager
- Rachel Clift, MSN, RN, Interim Associate Director of Operations
- Megan Cochran, BS, Community Outreach and Engagement Specialist
- Tiffani Hart, BSH, Administrative Services Associate
- Timothy Law, DO, Medical Director
- Lynn Petrik, BSN, RN, Research Nurse
- Cammie Starner, RN, Research Nurse
- Lee Ann Williams, MEd, CCRP, Interim Associate Director of Operations

Office of Advanced Studies staff member:

- Nadine Borovicka, MS, Program Coordinator
Note: There were numerous staffing changes during the past year. Dr. Darlene Berryman was officially named Associate Dean for Research and Innovation in March, 2018. Melissa Standley, MEd, accepted the Senior Director of Operations in June, 2018. Jody Van Bibber transitioned back to the Diabetes Institute and Dina Russell, was hired as an Administrative Specialist in July, 2018. Dr. Laura Rush resigned her position as Interim Executive Director of Research in January, 2018. Dr. Godwin Dogbey resigned his position as Biostatistician in February, 2018 and Dr. Victor Heh resigned his position as Biostatistician in June, 2018. Rachel Clift, MSN, RN, and Lee Ann Williams, MEd, CCRC, were promoted to Interim Associate Directors for Operations in the CTRU in January, 2018. Nadine Borovicka, MS, of the Office of Advanced Studies transferred to the Office of Research and Grants in July, 2018.

B. Mission Statement (updated FY 2018)

The Office of Research and Grants supports, coordinates and promotes the research and scholarly activities of Heritage College faculty, staff, institutes and students by:

- Promoting a culture of innovation, discovery and scholarship within the Osteopathic profession
- Fostering collaborations with key partners internal and external to the Heritage College
- Strengthening our research infrastructure to provide enhanced support services
- Leading the College’s strategic research initiatives
- Developing, maintaining and communicating research best practices and policies
- Supporting efforts to bring visibility to the research accomplishments of our
faculty, staff, institutes and students.

C. Strategic Priority: Collaborative Research and Scholarly Activity

*Discovery drives medical advances.* Our research is stronger when we work together on diverse teams within our college, alongside our communities and with our partners. Excellence in our research programs ultimately leads to improved health and quality of life for vulnerable populations in our state and throughout the nation and the world.

**Goal 1:** Build on our research and scholarship strengths through partnering, collaboration and innovation to advance medical knowledge and health care delivery.

**Goal 2:** Enhance and strengthen research infrastructure in collaboration with key partners within and external to Ohio University.

**Goal 3:** Validate the efficacy and value of osteopathic principles by creating an Osteopathic Research Initiative.

**Goal 4:** Become a nationally recognized institution for primary care research and knowledge.

D. Services Available

The Office of Research and Grants:

- Provides funding for research activities
  - Internal awards to support pilot studies, investments in new or ongoing research for faculty research projects through the Research and Scholarly Awards Committee (RSAC)
  - Support for medical student research through awards for student research projects, conference and convention travel to present research findings
  - Provides opportunities for mentored student research and fellowship payments through the Research and Scholarly Advancement Fellowship (RSAF)
  - Provides oversight, administration, coordination and support of the Osteopathic Heritage Foundations Endowed Chair, Professorship and Fellowship appointments
- Provides coordination of and support for human subjects research through the Clinical & Translational Research Unit (CTRU) (See CTRU report beginning on page 22)
- Offers research design assistance, statistical support, and training
- Coordinates internal and external pre-reviews for grant proposals
- Directs faculty, staff, and students to appropriate resources for research and program projects
- Facilitates industry-sponsored clinical trials

Page 9
• Serves as a liaison for research to external constituents
  o Ohio University Office of the Vice President for Research
  o Ohio University Office of Research and Sponsored Programs (ORSP)
  o Ohio University Office of Research Compliance – Institutional Animal Care and Use Committee (IACUC), Institutional Review Board (IRB)
  o Ohio University Technology Transfer Office
  o Ohio University Industry Partnerships
  o Other academic and administrative units within Ohio University
  o Other academic institutions
  o American Osteopathic Association and Ohio Osteopathic Association
  o Healthcare delivery sites and systems
  o Public and private granting agencies
  o State and local government agencies
  o Community groups
• Provides research-related educational activities for faculty, staff, and students

E. Faculty and Staff Research and Creative Activity
Research and creative activity information is collected directly from Heritage College faculty and staff members, Ohio University’s LEO system and various other Ohio University offices. 48 Heritage College faculty and staff members (Appendix A) reported information for FY 2018.

a. External Grant and Contract Funding
Details of this year’s new and continued research and program grant activities are provided in Appendix B. These data illustrate that academic and community service interests at the Heritage College are highly diverse and include collaborative ventures with other Ohio University colleges and constituencies beyond the University. Heritage College grant and contract revenue received during FY 2018 totaled $16,326,519 and consisted of:
• 21 external research grants with a total revenue of $1,954,514, including 5 NIH grants with a total revenue of $1,032,994
• 21 external public service grants with total revenue of $1,875,431, including 1 Health Resources and Services Administration (HRSA) grant with a total revenue of $200K
• Osteopathic Heritage Foundations (OHF) Vision 2020 grant revenue totaling $4,830,523
• Ohio Department of Higher Education subsidies totaling $7,083,939
• Instruction/training grants totaling $580,111
• Scholarship/fellowship grants totaling $2,000
b. External Grant and Contract Proposals

Heritage College faculty and staff submitted a total of 125 external grant and contract proposals during FY 2018. Of these, 34 proposals were funded during FY 2018. Proposals that were classified as pending, disapproved or grant closed are reflected in Appendix C.

c. Publications

Our faculty and staff continue to publish in major journals in their respective fields. It is our objective to raise the impact of publications and strike a balance between quantity and quality, as both are critical to our external grant funding, fundraising activities, and to our rank among osteopathic medical schools in the United States.

Heritage College faculty and staff reported a total of 154 peer-reviewed publications, 10 review articles, three books and 16 book chapters during FY 2018, which is a significant increase over FY 2017. Detailed information is provided in Appendix D.
d. Intramural Funding
Heritage College faculty and staff received over $161K in intramural funding from various sources within the Vice President for Research Office during FY 2018. Detailed information is provided in Appendix E.

e. Abstracts, Presentations, Posters and Seminars
Faculty, staff and students represented the Heritage College with oral presentations, posters, published abstracts, professional speaking engagements, invited research presentations at conferences, research seminars and special research efforts in 277 distinct, reported, presentations during FY 2018. Detailed information is provided in Appendix F.

f. Honors and Awards
Faculty and staff of the Heritage College received many notable honors and awards in FY 2018. Below summarizes these honors that are, except in rare cases, external to Ohio University. Detailed information is provided in Appendix G.

g. Scholarly Review
Heritage College faculty and Staff participated in many scholarly review activities outside Ohio University during FY 2018. These activities included service on editorial review boards, service as associate or senior editors, external grant reviewers,
participation in study sections and service as expert reviewers. The table below summarizes these activities. Detailed information is provided in Appendix H.

<table>
<thead>
<tr>
<th>Expert Reviewer</th>
<th>Study Sections</th>
<th>External Grant Reviewer</th>
<th>Associate or Senior Editor</th>
<th>Editorial Review Boards</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>15</td>
<td>10</td>
<td>5</td>
<td>30</td>
</tr>
</tbody>
</table>

**h. Patents and Invention Disclosures**

Innovations and discoveries made by Heritage College faculty and staff are reflected in their engagement with the Ohio University Technology Transfer Office during the reporting year and are contained in the table below. Detailed information is provided in Appendix K.

<table>
<thead>
<tr>
<th>Number of Agreements Filed</th>
<th>29</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Invention Disclosures</td>
<td>6</td>
</tr>
<tr>
<td>Number of Patents Filed</td>
<td>8</td>
</tr>
<tr>
<td>US Provisional = 3</td>
<td>3</td>
</tr>
<tr>
<td>PCT = 1</td>
<td></td>
</tr>
<tr>
<td>US Utility = 4</td>
<td></td>
</tr>
<tr>
<td>Number of Patents Issued</td>
<td>3</td>
</tr>
<tr>
<td>Number of Issued and Active Heritage College Patents</td>
<td>10</td>
</tr>
<tr>
<td>Number of Heritage College Patent Applications in Progress</td>
<td>26</td>
</tr>
</tbody>
</table>

**F. Student Trainees Engaged in Research**

Heritage College faculty and staff mentored 120 trainees during FY 2018. Importantly, this included many graduate and undergraduate students housed in programs outside our college. Their collective scholarly output was impressive. Detailed trainee information is provided in Appendix I.
a. **Research and Scholarly Advancement Fellowship (RSAF)**

RSAF brings together second-year medical students with Heritage College faculty members and mentors from our affiliates in various research endeavors. The purpose of the program is to offer students research opportunities and to help them gain an appreciation for research that will have remain with them throughout their careers. For ten weeks during the summer session, the fellows work on mentored research projects and attend research-related seminars. Seminar topics include medical literature searches, research ethics, clinical research, critical analysis of journal articles, Institutional Review Board, and statistics. A total of 21 students were funded in FY 2018, mentored by 16 distinct Heritage College faculty. Detailed information on students and faculty mentors is provided in Appendix L.

b. **Eli Lilly Medical Student Rotation**

In FY 2018, the Heritage College of Osteopathic Medicine was pleased to continue participation in Eli Lilly and Company’s innovative rotation program for aspiring physicians. Five Heritage College students participated in the program last fiscal year. Launched in early 2014, the program provides students with hands-on experience in a range of pharmaceutical business activities, from drug discovery and development to bioethics and patient safety. The Heritage College is one of four medical schools to partner with Lilly on its Medical Student Rotation Program. The Office of Research and Grants helps coordinate this opportunity.

FY 2018 Participating Osteopathic Medical Students were:

- Matt Hagan (Athens Campus) – August, 2017
- Ben Stoyak (Athens Campus) – September, 2017
- Nina Passen (Athens Campus) – October, 2017
- Sara Kocian (Athens Campus) – February, 2018
c. **Student Research Support**

Student research continues to be an important part of medical education at the Heritage College. Students registered 299 individual research projects and scholarly activity projects with the Office of Research and Grants (ORG). In addition, ORG awarded 11 research seed funding grants in the amount of $29,305 and 18 travel grants in the amount of $10,400. Printing fees for 47 posters were provided by ORG. This activity represents a 138% growth in seed funding grants, a 4% decrease in travel grants and a 1% growth in poster presentations over FY 2017. Details are provided below. In addition, 61 Heritage College Students participated in the Ohio Osteopathic Symposium in April, 2018.

<table>
<thead>
<tr>
<th></th>
<th>Seed Funding</th>
<th>Travel Awards</th>
<th>Posters</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(# of Awards and Total)</td>
<td>(# of Awards and Total)</td>
<td>(# Printed and Total)</td>
</tr>
<tr>
<td>Athens</td>
<td>6</td>
<td>10</td>
<td>27</td>
</tr>
<tr>
<td>Dublin</td>
<td>1</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Cleveland</td>
<td>4</td>
<td>0</td>
<td>12</td>
</tr>
<tr>
<td>Total Awards</td>
<td>11</td>
<td>18</td>
<td>47</td>
</tr>
<tr>
<td>Total Funding</td>
<td>$29,305</td>
<td>$10,400</td>
<td>N/A</td>
</tr>
</tbody>
</table>

G. **Office of Research and Grants Activities and Accomplishments**

a. **Communication**

In September, 2017, the Office of Research and Grants began distributing a digital newsletter, *Bullet Points*, to all Heritage College faculty and staff, as well as others throughout the University. *Bullet Points* includes information regarding upcoming internal and external professional development and training opportunities, Office of Research and Grants updates, internal and external funding opportunities and other important research-related information.

b. **Faculty-Staff Needs Assessment**

In an effort to better provide research-related services to Heritage College faculty, staff, and students, the Office of Research and Grants distributed a needs assessment in the fall of 2017. The goal of the needs assessment was to better understand scholarly efforts, challenges, and the research services needed. We received 93 responses and this collective information has and will continue to help guide how we prioritize services offered through our office. The complete results (minus individual comments), are available on the Office of Research and Grants website.

c. **Research, Exploration and Discovery Day and Open House**
The first annual Heritage College Research, Exploration and Discovery Day and Open House was held on April 4th, 2018. The event featured many Heritage College units and programs to promote collaboration with the Heritage College. The event culminated in a reception honoring John J. Kopchick, Ph.D., distinguished professor of molecular biology and Goll-Ohio Eminent Scholar. Dr. Kopchick spoke at 4 p.m., leading into the reception to celebrate both his work and the 40th anniversary of the Research and Scholarly Advancement Fellowship. The occasion also featured the announcement of the new John J. Kopchick Distinguished Lecture, created in honor of Dr. Kopchick’s love of learning and impact on translational research throughout the world.

d. **Digital Measures**
The Office of Research and Grants is in the process of working with the Vice President of Research Office to implement the use of Digital Measures for tracking of metrics related to research. Digital Measures is being implemented across campus. The target for full implementation at the Heritage College is the fall of 2018.

e. **Research Seminars**
The Office of Research Grants co-sponsored a research seminar by Editor of the Journal of the American Osteopathic Association, Robert, Orenstein, DO, on February 14, 2018. Dr. Orenstein’s visit to Ohio University included meetings with assorted faculty and students. He presented tips to help get published during the Translational Biomedical Sciences seminar. Link to his presentation is http://ouhcom.mediasite.com/mediasite/Play/2adc285eca054806bcb59909564330831d.

Additionally, the Office of Research and Grants, in collaboration with the Translational Biomedical Sciences Research Seminar Series, sponsored a research seminar by Dr. Mark Brown of the Cleveland Clinic Lerner College of Medicine on May 23rd, 2018. Dr. Brown’s seminar was entitled, “Drugging gut microbial enzymes for the treatment of obesity and type 2 diabetes.”

f. **Osteopathic Heritage Foundation Research Endowments – Endowed Chair, Professorships and Fellowships**
The Office of Research and Grants and the Office of Strategic Initiatives worked diligently over FY 2018 to revise the guidelines and evaluation documents for the Osteopathic Heritage Foundation Research Endowments – Endowed Chair, Professorships and Fellowships.
Three Heritage College faculty members completed the annual/continued review for their respective endowed chair and professorship awards and were recommended for continuance/reappointment:

- Brian Clark, PhD, Osteopathic Heritage Foundation Harold E. Clybourne, D.O., Endowed Research Chair
- Sonia M. Najjar, MS, PhD, Osteopathic Heritage Foundation John J. Kopchick, Ph.D., Endowed Eminent Research Chair
- Vishwajeet Puri, PhD, Heritage Endowed Professorship in Diabetes, Osteopathic Heritage Foundation Ralph S. Licklider, D.O. Research Endowment

The Office of Research and Grants will be issuing a Call for Proposals for the Osteopathic Heritage Foundation Endowed Fellowships in fall semester, 2018.

g. Research and Scholarly Awards Committee

The Research and Scholarly Awards Committee (RSAC) provides research support to the Heritage College faculty to enhance research activity and to increase competitiveness for funding from external grant agencies. Proposals are reviewed by standing RSAC committee members and ad-hoc intramural content experts.

The membership of RSAC is composed of voting faculty and ex-officio members as follows: two (2) elected representatives from the non-clinical departments, two (2) elected representatives from the clinical departments and two (2) representatives appointed by the Executive Dean. The Committee is advisory to the Associate Dean for Research and Innovation and, in turn, the Executive Dean. The ex-officio non-voting members are the Executive Director, Office of Research and Grants, a biostatistician and the Associate Dean for Research and Innovation (except in the event of a tie wherein the Associate Dean for Research and Innovation will cast the tie-breaking vote). Upon recommendation of the Associate Dean for Research and Innovation, the Executive Dean designates a voting faculty member to serve as chairperson annually. FY 2018 committee members are provided in Appendix M.

In addition to Pilot/Feasibility Grant Awards, RSAC began offering the Grant Enhancement Program in FY 2018. The purpose of the RSAC Grant Enhancement Program is to support the necessary revisions suggested by previous external reviewers. Examples would be to support the generation of additional pilot data and/or new data suggested by previous external reviewers, to foster new critical collaborations, etc. Recipients of this particular award are required to resubmit the proposal to external funders.

During FY 2018, RSAC awarded the following:
<table>
<thead>
<tr>
<th>Faculty Member</th>
<th>Award Amount</th>
<th>Funding Mechanism</th>
<th>Award Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Leslie Consitt, PhD</td>
<td>$10,000</td>
<td>Pilot/Feasibility Award</td>
<td>3/23/2018-3/31/2019</td>
</tr>
<tr>
<td>Yang Li, PhD</td>
<td>$10,600</td>
<td>Grant Enhancement Award</td>
<td>3/29/2018-4/07/2019</td>
</tr>
<tr>
<td>Tracy Shaub, DO</td>
<td>$9,858</td>
<td>Pilot/Feasibility Award</td>
<td>3/23/2018-3/31/2019</td>
</tr>
</tbody>
</table>

**H. Heritage College Core Research Facilities**

During FY 2018, the Office of Research and Grants created and received approval from Heritage College leadership and Ohio University Grants and Contracts Accounting for a master document outlining the operations and expectations for all Heritage College Core Research Facilities now and in the future.

**Microscopy Core**

The Heritage College Microscopy Core Facility is located in the Academic and Research Center, Room 246. The facility houses two microscopes (Nikon E600 conventional wide field and Nikon A1R confocal), and a dedicated offline workstation for image analysis. These powerful systems permit capture of high-quality images of fixed or living tissues, cells, and molecules. A sample preparation area is available adjacent to the microscope room. The facility can accommodate a variety of specimens and assist a broad range of users. Additional details about the equipment can be found on our website [https://www ohio.edu/medicine/about/departments/biomedical/microscope.cfm](https://www ohio.edu/medicine/about/departments/biomedical/microscope.cfm).

All users must complete an application form and be trained in use and care of the microscopes by Facility staff. Users are expected to analyze their own samples independently, however, staff are available to assist upon request. Authorized users reserve time on the microscopes and workstation through an online booking system.

The Microscopy Core Facility began billing beginning April 1, 2018. The fees for the A1R confocal are $25/hour (internal) and $60/hour (external). The fees for the Nikon E600 wide field microscope are $5/hour (internal) and $10/hour (external). There is no charge for the offline image analysis workstation. Users are billed on a monthly basis.

From April 1-June 30, 2018, the Microscopy Core had a total of 12 users and provided a total of 189 hours of service. The total revenue generated by the Microscopy Core during this time period was $4,315.
I. Progress on Prior Year Goals and Goals for Upcoming Year
   a. Progress on Prior Year Goals
      - Strengthen Research and Promote Collaborations
        o Re-evaluate the College research strategy and goals
          The Office of Research and Grants continues to work with the Office of Strategic Initiatives and leadership teams to evaluate and revise, as necessary, the research strategy and goals. This process will continue to be ongoing.
        o Continue to improve the research infrastructure with a focus on building sustainable core facilities
          The Microscopy Core opened and began generating revenue for the Heritage College in FY 2018. Additional details are provided above. The Office of Research and Grants will continue to evaluate the needs of our faculty and staff to determine additional research infrastructure and core facilities in the future.
        o Align scientific expertise with focal areas of research and with the College research strategy
          The Office of Research and Grants will continue to align scientific expertise with focal areas of research and with the College research strategy by working with departments during faculty searches. This process and involvement will be ongoing.
        o Instill a culture of peer review, quality publications and external funding to support sustained research programs
          Through the availability of external peer reviews, coordinated through the Office of Research and Grants, and new internal funding mechanisms, the Office of Research and Grants has made great strides in the area of installing a culture of peer review, quality publications and external funding to support sustained research programs. We will continue to evaluate the needs of our faculty and staff and initiate new programs and/or revise existing programs to meet these needs.
        o Sponsor enrichment programs that enhance research productivity
          The Office of Research and Grants will continue to work with departments, institutes and programs to co-sponsor enrichment programs and is currently working to better promote and enhance the availability of research seminars within the University. This process will be ongoing and will be continually evaluated to ensure the needs of our faculty and staff are met.
        o Enhance grant writing support services
          The Office of Research and Grants will be working in the coming year to enhance the availability of grant writing support services. Options for the enhancement of these services are currently under discussion with College
leadership.

- **Provide sufficient graduate student access to our faculty**
  The Office of Research and Grants is in ongoing discussions with College leadership regarding the development of graduate programs within the Heritage College. The development of these programs would give Heritage College faculty a broader pool of graduate students to engage in research within their labs or research programs.

- **Identify and facilitate collaborations with key external partners**
  Leadership within the Office of Research and Grants has met regularly with existing partners (e.g. OhioHealth and Cleveland Clinic) and initiated conversations for research collaborations with newer partners (e.g. Kettering Health, Mercy). Industry partnerships have also been nurtured via student experiences or via funding mechanisms (e.g. Eli Lilly, Pfizer, Merck).

**Office Organization and Services**

- **Assess needs of faculty to provide better service for research activities**
  The Office of Research and Grants conducted a needs assessment of all Heritage College faculty and staff in the fall of 2017. Information received from this survey has been and will continue to be used to drive the availability of services within the office.

- **Coordinate and/or consolidate research resources available to faculty in the college**
  During the learning and listening phase of new leadership within the Office of Research and Grants, we discovered that many research resources were available to faculty and staff from many different units within the College. In an effort to coordinate and/or consolidate these resources, the Office of Research and Grants staff is continuously working with the departments and institutes to, at minimum, be aware of the resources available, and better promote and coordinate those resources with the research priorities of the College.

- **Provide additional support for the development and oversight of grant budgets**
  The Office of Research and Grants has implemented many processes and procedures to streamline efforts for the oversight of grant budgets. For example, procedures have been implemented related to ordering on grant accounts and overall oversight of grant budgets centrally, rather than on a PI or departmental level. Additionally, the Office of Research and Grants has representation at meetings and regularly collaborates with other research administration units within the University.

- **Improve the overall efficiency of research administration**
  Similar to what is indicated above, the Office of Research and Grants has also implemented many processes and procedures to streamline efforts for research administration. For example, processes have been implemented for a streamlined application and award process for internal funding,
including research publications support, RSAC funding mechanisms, startup requests, etc., as well as procedures related to internal operations which provide consistency, transparency and efficiency. This will be an ongoing process, as services are re-evaluated and revised or new services are made available.

- Re-evaluate and/or revise internal funding mechanisms to better meet the need of faculty, staff and students

  The Office of Research and Grants has worked collaboratively with the Research and Scholarly Affairs Committee (RSAC), the Office of Strategic Initiatives and College leadership to make available new funding mechanisms such as RSAC Grant Enhancement Awards, Innovation Awards and the Osteopathic Heritage Foundation Research Endowments – Endowed Chair, Professorships and Fellowships. Additionally, the processes and procedures for Medical Student Travel Awards and Medical Student Seed Funding have been streamlined to ensure availability of resources and clarity.

- Future Reporting

  - Identify appropriate metrics to gauge effectiveness of services provided by the Office of Research and Grants

    The Office of Research and Grants has worked collaboratively with Institute Directors and Department Chairs to determine data elements that should be collected through Digital Measures. Effectiveness of the services provided by the Office of Research and Grants can, in part, be determined by the scholarly output of our faculty and staff as collected through Digital Measures.

  - Determine a means to capture training activities of faculty and staff to better understand impact of our college on university student programs

    The Office of Research and Grants is continuing to work with the Vice President for Research Office to implement Digital Measures (see more information above). Faculty and staff training activities in one to the data elements that have been identified for tracking in this system.

  - Implement the collection of scholarly data via a living database to simplify reporting

    As noted above, the Office of Research and Grants is continuing to work with the Vice President for Research Office to implement Digital Measures. The target implementation of this program is the fall semester of 2018.

d. Goals for the Upcoming Year

- Our main focus will be to enhance and strengthen the research infrastructure in collaboration with key partners within and external to Ohio University.

  To accomplish this, we will need to determine appropriate services to offer as well as the office organization and staffing needs of ORG in order to provide these services.
• Additional Core Research Facilities: Assist in making Histology and Metabolic Cores operational and begin charging fees according to approve fee schedule; finalize updated fee structure for CTRU
• Evaluate and update the research services needed by our clinical sites and our students at clinical sites
• Improve communication of research activities of our college through a restructured website, collaborative event with CHSP, creation of a Office of Research and Grants newsletter and collaboration with the Heritage College Office of Communication
• Assist in development of graduate programs and lead the effort in recruiting, retaining and seeking funding sources for graduate students
• Lead efforts related to research space planning, equipment inventories and research continuity plans
• Finalize overarching master agreements related to research with OhioHealth
• Establish and pilot research collaborations with Cleveland Clinic

Section II: Clinical and Translational Research Unit (CTRU)

Overview
The Clinical & Translational Research Unit (CTRU) in the Office of Research and Grants is part of the research infrastructure of Ohio University’s Heritage College of Osteopathic Medicine. Its main purpose is to support investigators who do research with human subjects. The CTRU evolved and expanded from the former Clinical Research Unit that was housed in the diabetes center. Since inception in 2014, the CTRU has undergone significant growth and development, with even more exciting opportunities on the horizon.

The mission of the CTRU is to provide the best possible environment for clinical research – one that fosters the creation of new knowledge in healthcare and protects the safety and well-being of study participants. The vision is to be nationally recognized as one of the leading clinical research facilities associated with a medical school. The CTRU operates under the guiding principles of respect for all people, unwavering adherence to the highest ethical standards, and a deep sense of interdisciplinary collaboration to further the advancement of healthcare.
The CTRU is led by Interim Associate Directors Rachel Clift, MSN, RN and Lee Ann Williams, M.Ed., CCRP. Timothy D. Law Sr., DO, MBA, is the CTRU Medical Director. Other staff include two Research Nurses (0.5 and 0.75 FTE), an Administrative Associate, an Engagement/Outreach Specialist (0.6 FTE), a Clinical Research Associate/Laboratory Manager and four Student Employees. CTRU personnel have decades of combined experience in clinical research. Most staff are affiliated with professional clinical research organizations and hold research-specific credentials.

The CTRU staff is experienced with study participants of all ages and has expertise in a variety of areas, including type 1 and type 2 diabetes, cardiovascular disease, exercise physiology, aging (sarcopenia and mobility disability), public health, and back pain. The CTRU supports federally-funded (i.e. NIH, NSF, DoD etc.) and industry-sponsored studies, as well as investigator-initiated studies.

A. Research Activity

The CTRU supports all stages of clinical research, from initial conception to final reporting. The CTRU continues to provide services to meet the evolving needs of its investigators. For example, over 20 independent researchers consulted with the CTRU for feasibility and study development.

<table>
<thead>
<tr>
<th>CTRU Services</th>
<th>Project design</th>
<th>Feasibility assessment</th>
<th>Institutional Review Board (IRB) submission assistance</th>
<th>Protocol implementation</th>
<th>Data collection and management</th>
<th>Imaging and image analysis – magnetic resonance imaging (MRI), dual-energy x-ray absorptiometry (DEXA),</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Regulatory oversight and guidance</td>
<td>Physician services and medical oversight</td>
<td>Budget development</td>
<td>Project coordination</td>
<td>Assistance with interim and final reports</td>
<td>Biospecimen collection and processing</td>
<td>Nursing services, including phlebotomy and intravenous placement</td>
<td>Facilitating research relationships with external partners</td>
</tr>
</tbody>
</table>
The CTRU occupies over 3,000 square feet of space, primarily on the second floor of Irvine Hall. The space is outfitted to fulfill the current needs of OU investigators and to be flexible enough to accommodate future needs. The CTRU also houses and manages several pieces of specialized equipment that are utilized by a variety of investigators. Equipment purchases made this year focused on portability allowing researchers to borrow equipment for conducting off-site data collection.
In FY 2018, the CTRU supported 28 clinical research studies (including sub-studies) for 15 unique principal investigators and their research teams which resulted in 499 study visits. The complexity of clinical protocols, including a Phase 1b industry trial represents a decrease in the number of study visits since the last report however studies have required an increase in time and services offered by CTRU personnel.

The funding sources for studies supported by the CTRU during FY 2018 are categorized below:

- **Federally-funded studies**: The CTRU supported 13 studies (including sub-studies) clinical research funded by multiple institutes of the National Institutes of Health (NIH) and one funded by the Department of Defense. These studies recruited subjects with diabetes, metabolic disease, back pain, and cardiovascular disease, as well as healthy volunteers without a chronic disease.

- **Industry-sponsored studies**: Services were provided for three industry-sponsored studies. Of the three, one new industry-sponsored study was in the start-up phase.

- **Association**: Two American Heart Association (AHA) studies were supported.

- **Ohio University Innovation Strategy**: One supported Innovation Strategy study was supported through close-out.

- **Investigator-initiated studies**: The CTRU supported investigator-initiated studies.

**RESEARCH THROUGH THE AGES**

People of all ages played a role in studies at the CTRU. In fact, we had participants that spanned nine decades.
The CTRU was involved in study development and/or implementation with faculty and staff from 5 colleges and 3 institutes across Ohio University. Information on current and completed studies can be accessed on the CTRU website: https://www.ohio.edu/medicine/research/ctru/current-studies.cfm.

B. Student Interactions

The CTRU strives to expand student research experiences and offers a supportive learning environment where students can make meaningful contributions working with faculty investigators and CTRU staff. The program was developed by CTRU staff to provide a structured format for students to interact with personnel in all areas of the CTRU, learn the fundamentals of clinical research, and observe specific studies based on their area(s) of interest. Student knowledge of clinical research is assessed by pre- and post-measures.

CTRU personnel also played a role in the education and development of undergraduate, graduate, and medical students through lectures, tours, and equipment demonstrations.

C. External Partnerships and Community Engagement

External partnerships play a key role in collaborative research. The CTRU continued research partnerships with the OhioHealth Research Institute, the OhioHealth Physician Group Heritage College, Holzer Health System, Ohio State University, Nationwide Children’s Hospital, OrthoNeuro and other entities. New partnerships were established with the clinical research units at MetroHealth Medical Center, University Hospitals, Cleveland Clinic and with Northern Kentucky University. These partnerships help strengthen relationships and broaden opportunities for faculty and students to conduct research.

Another important initiative of the CTRU is community outreach and engagement. Clinical research cannot happen without volunteers; educating the community about what clinical research is, why it is important, and sharing opportunities for research participation is vital for study recruitment success. This also provides more visibility for OU investigators and gives community members ways to contribute. The CTRU has consistently participated in health fairs and local events as a way to reach the community. Some of the events have included Athens City/County Health Department Senior Safety Day and the Rocky Boots Employee Wellness Fair.
Spring of 2018 brought an exciting opportunity to the Heritage College for the first Research, Exploration & Discovery (RED) Day. The CTRU was heavily involved in planning and participated by hosting an Open House and tour of our unit as part of the event. The theme focused on collaboration, and the CTRU was able to highlight many services offered to researchers.

In April 2018, the CTRU attended the Ohio Osteopathic Symposium (OOS). As an exhibitor, clinical research was discussed with current and future physicians and details were shared about the CTRU services. The CTRU arranged for a local community member, Bryan Hinkle, to share his experience in a Chicago based clinical trial for a chronic disease. Bryan and CTRU medical director, Dr. Timothy Law, spoke about clinical research from the perspectives of both a participant and physician/researcher.

The CTRU is always looking for new ways to share information. This year, working with University Communications & Marketing, a video was created to educate others about our services: [https://www.youtube.com/watch?v=wRKs_tLZSM8&feature=youtu.be](https://www.youtube.com/watch?v=wRKs_tLZSM8&feature=youtu.be).

Diligent efforts continued over the year to build on previous strategies. In September 2015, Ohio University joined Research Match, a national database that matches potential research volunteers with researchers who are recruiting people to participate in their studies. Promotion of ResearchMatch ([www.researchmatch.org](http://www.researchmatch.org)) continued this year within the community to build volunteer registration. CTRU staff manage ResearchMatch accounts for qualifying investigators who wish to utilize this recruitment tool. In the past
year, over 70 registrants, within a 50 mile radius of the CTRU, were added to database.

Dissemination of the CTRU newsletter is done quarterly to share new and current studies, research events, and staff or researcher highlights. Over the course of the last year, 13,691 newsletters were distributed to individuals within Ohio University, external partners, and community members who have expressed interest in receiving this information.

Other ways information is shared with campus and the community include the CTRU website and social media accounts. 3,520 people accessed our website in the past year for information about clinical research and/or the CTRU (www.ohio.edu/medicine/research/ctru). Additionally, the CTRU Facebook followers nearly doubled. When considering all of the different methods used to share information about our unit- talks, community events, emails, newsletters, etc. – The CTRU exceeded 45,000 points of contact for the year.

D. Planning for the Future
As part of the CTRU mission to create the best possible environment for clinical research, visibility and support for clinical investigators will remain a priority. Future goals include increased collaborations with external partnerships including industry, healthcare systems and community agencies. The CTRU will continue to strive to educate the community about clinical research opportunities, creating awareness of Heritage College scholarly activity.
## LIST OF ABBREVIATIONS IN APPENDICES

<table>
<thead>
<tr>
<th>Unit</th>
<th>Description</th>
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<tbody>
<tr>
<td>Acad Aff</td>
<td>Academic Affairs</td>
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<tr>
<td>Adm Fin</td>
<td>Administration and Finance</td>
</tr>
<tr>
<td>BMS</td>
<td>Department of Biomedical Sciences</td>
</tr>
<tr>
<td>Chem Bio</td>
<td></td>
</tr>
<tr>
<td>Eng</td>
<td>Chemical and Biomolecular Engineering (Russ College)</td>
</tr>
<tr>
<td>CHP</td>
<td>Community Health Programs</td>
</tr>
<tr>
<td>CLEV</td>
<td>Heritage College Cleveland Campus</td>
</tr>
<tr>
<td>Dean</td>
<td>Heritage College Dean's Office</td>
</tr>
<tr>
<td>DI</td>
<td>Diabetes Institute</td>
</tr>
<tr>
<td>EBI</td>
<td>Edison Biotechnology Institute</td>
</tr>
<tr>
<td>EECS</td>
<td>Electrical Engineering and Computer Science (Russ College)</td>
</tr>
<tr>
<td>Fam Med</td>
<td>Department of Family Medicine</td>
</tr>
<tr>
<td>HCOM</td>
<td>HCOM College</td>
</tr>
<tr>
<td>Med Infor</td>
<td>Medical Informatics</td>
</tr>
<tr>
<td>OB/GYN</td>
<td>Obstetrics and Gynecology</td>
</tr>
<tr>
<td>OMM</td>
<td>Department of Osteopathic Manipulative Medicine</td>
</tr>
<tr>
<td>ORG</td>
<td>Office of Research and Grants</td>
</tr>
<tr>
<td>ORSP</td>
<td>Office of Research and Sponsored Programs (VPR)</td>
</tr>
<tr>
<td>PedS</td>
<td>Pediatrics</td>
</tr>
<tr>
<td>RCS</td>
<td>Rehabilitation and Communication Sciences (CHSP)</td>
</tr>
<tr>
<td>RUSP</td>
<td>Office of Rural and Underserved Programs</td>
</tr>
<tr>
<td>Soc Med</td>
<td>Department of Social Medicine</td>
</tr>
<tr>
<td>Soc Pub</td>
<td></td>
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<tr>
<td>Hlth</td>
<td>Social and Public Health (CHSP)</td>
</tr>
<tr>
<td>Spec Med</td>
<td>Department of Specialty Medicine</td>
</tr>
<tr>
<td>Stud Aff</td>
<td>Student Affairs</td>
</tr>
<tr>
<td>VPR</td>
<td>Vice President for Research</td>
</tr>
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</table>
## APPENDIX A: FY2018 Heritage College Reporting Faculty and Staff

<table>
<thead>
<tr>
<th>Name/Degree(s)</th>
<th>Academic Rank</th>
<th>Primary (&amp; Secondary) Appointment(s)</th>
<th>Area of Expertise / Research Interest</th>
</tr>
</thead>
<tbody>
<tr>
<td>Darlene Berryman, PhD, RD, LD</td>
<td>Professor</td>
<td>Department of Biomedical Sciences</td>
<td>Obesity, Diabetes, Adipose Tissue</td>
</tr>
<tr>
<td>Elizabeth A. Beverly, PhD</td>
<td>Assistant Professor</td>
<td>Department of Family Medicine, Diabetes Institute</td>
<td>Diabetes, Behavioral Medicine, Qualitative Methodology, Medical Education</td>
</tr>
<tr>
<td>Sharon Casapulla, EdD</td>
<td>Assistant Professor</td>
<td>Department of Family Medicine, Department of Social Medicine, Translational Biomedical Sciences</td>
<td>Education Research/Health Disparities</td>
</tr>
<tr>
<td>Bhakti Chavan, MPH, MBBS</td>
<td>Research Assistant</td>
<td>Department of Social Medicine</td>
<td>Maternal and Child Health, Reproductive Health and Global Health</td>
</tr>
<tr>
<td>Xiaozhuo Chen, PhD</td>
<td>Associate Professor</td>
<td>Department of Biomedical Sciences</td>
<td>Cancer Metabolism and Therapeutics/Diabetes Therapeutics</td>
</tr>
<tr>
<td>Brian Clark, PhD</td>
<td>Professor</td>
<td>Biomedical Sciences, OMNI, Division of Geriatric Medicine</td>
<td>Motor Function, Aging Systems, Translational Physiology</td>
</tr>
<tr>
<td>Leatha A Clark, PT DPT, MS</td>
<td>Clinical Research Scientist</td>
<td>Department of Biomedical Sciences, Adjunct Research Assistant Prof – Department of Family Medicine</td>
<td>Aging Systems</td>
</tr>
<tr>
<td>Karen Collins, MPA</td>
<td>N/A</td>
<td>Office of Research and Grants</td>
<td>Medical Education</td>
</tr>
<tr>
<td>Leslie Consitt, PhD</td>
<td>Assistant Professor</td>
<td>Department of Biomedical Sciences, Diabetes Institute, OMNI</td>
<td>Skeletal Muscle Physiology, Metabolism</td>
</tr>
<tr>
<td>Karen Coschigano, PhD</td>
<td>Associate Professor</td>
<td>Department of Biomedical Sciences, Diabetes Institute</td>
<td>Molecular Biology, Biochemistry, Gene regulation</td>
</tr>
<tr>
<td>Ann Dietrich, MD</td>
<td>Associate Clinical Professor</td>
<td>Department of Pediatrics</td>
<td></td>
</tr>
<tr>
<td>David Drozek, DO</td>
<td>Associate Professor</td>
<td>Department of Specialty Medicine</td>
<td>Lifestyle Medicine</td>
</tr>
<tr>
<td>Wei-Ming Duan, MD, PhD</td>
<td>Associate Lecturer</td>
<td>Department of Biomedical Sciences</td>
<td>Anatomy, Neuroanatomy, Neuroscience</td>
</tr>
<tr>
<td>Name/Degree(s)</td>
<td>Academic Rank</td>
<td>Primary (&amp; Secondary) Appointment(s)</td>
<td>Area of Expertise / Research Interest</td>
</tr>
<tr>
<td>--------------------------------</td>
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<td>------------------------------------------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Lisa Forster, MS</td>
<td>Administration</td>
<td>Primary Care Research Initiatives, Department of Family Medicine</td>
<td>Health Communication</td>
</tr>
<tr>
<td>Berkeley Franz, PhD</td>
<td>Assistant Professor</td>
<td>Department of Social Medicine</td>
<td>Community-Based Health, Religion and Health, Health Policy</td>
</tr>
<tr>
<td>Mario Grijalva, PhD</td>
<td>Professor</td>
<td>Department of Biomedical Sciences, Director, Infectious and Tropical Disease Institute</td>
<td>Tropical Diseases: Biology, Epidemiology and Control Molecular and Cellular Biology Medical Entomology Immuno-parasitology Research Capacity Development</td>
</tr>
<tr>
<td>Emily Hill Guseman, PhD</td>
<td>Assistant Professor</td>
<td>Diabetes Institute, Department of Family Medicine</td>
<td>Pediatric Obesity Prevention and Treatment</td>
</tr>
<tr>
<td>Zelalem T. Haile, PhD, MPH</td>
<td>Assistant Professor</td>
<td>Department of Social Medicine</td>
<td>Maternal, Infant and Child Health; Sexual and Reproductive Health; and Global Health</td>
</tr>
<tr>
<td>Amber Healy, DO</td>
<td>Assistant Professor</td>
<td>Director of Diabetes Fellowship Program</td>
<td>Diabetes Care Delivery</td>
</tr>
<tr>
<td>Calvin B. L. James, PhD</td>
<td>Associate Professor</td>
<td>Department of Biomedical Sciences, Diabetes Institute</td>
<td>Virology/ Role of Coxsackievirus in Type 1 Diabetes</td>
</tr>
<tr>
<td>Blythe Jonas, MA</td>
<td>N/A</td>
<td>Admissions and Student Affairs</td>
<td>N/A</td>
</tr>
<tr>
<td>Anna Kerr, PhD</td>
<td>Assistant Professor</td>
<td>Department of Family Medicine</td>
<td>Health Communication/Primary Care Research</td>
</tr>
<tr>
<td>John J. Kopchick, PhD</td>
<td>Goll Ohio Professor of Molecular and Cellular Biology</td>
<td>Director of the Growth, Diabetes and Obesity Section, Edison Biotechnology Institute, Department of Biomedical Sciences</td>
<td>Growth Hormone Receptor (GHR) Antagonant</td>
</tr>
<tr>
<td>Kevin Y. Lee, PhD</td>
<td>Assistant Professor</td>
<td>Department of Biomedical Sciences</td>
<td>Adipose Tissue, Obesity, Metabolism</td>
</tr>
<tr>
<td>Chunmin Lo, PhD</td>
<td>Assistant Professor</td>
<td>Department of Biomedical Sciences, Diabetes Institute</td>
<td>Obesity and Diabetes</td>
</tr>
<tr>
<td>Randall Longenecker, MD</td>
<td>Professor</td>
<td>Department of Family Medicine</td>
<td>Rural Health Professions Education</td>
</tr>
<tr>
<td>Kelly D. McCall, PhD</td>
<td>Associate Professor (tenured)</td>
<td>Department of Specialty Medicine</td>
<td>Auto-immune inflammatory diseases</td>
</tr>
<tr>
<td>Mark McGee, MD</td>
<td>Assistant Clinical Professor</td>
<td>Department of Specialty Medicine</td>
<td>Psychiatry</td>
</tr>
<tr>
<td>Name/Degree(s)</td>
<td>Academic Rank</td>
<td>Primary (&amp; Secondary) Appointment(s)</td>
<td>Area of Expertise / Research Interest</td>
</tr>
<tr>
<td>----------------------------------------</td>
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<td>-------------------------------------------------------------------</td>
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</tr>
<tr>
<td>Nicholas H.E. Mezitis, MD, PhD</td>
<td>Associate Professor</td>
<td>Department of Specialty Medicine</td>
<td>Internal Medicine, Diabetes, Endocrinology, Nutrition</td>
</tr>
<tr>
<td>Erin R. Murphy, PhD</td>
<td>Associate Professor</td>
<td>Department of Biomedical Sciences</td>
<td>Bacteriology</td>
</tr>
<tr>
<td>Kelly L Nottingham, MPH</td>
<td>Adjunct Assistant Professor, Family Medicine</td>
<td>Department of Family Medicine, Primary Care Research Initiatives</td>
<td>Primary Care, Public Health, Practice Based &amp; Community Engaged Research, Minimally Disruptive Medicine</td>
</tr>
<tr>
<td>Felicia V. Nowak, MD,PhD</td>
<td>Associate Professor</td>
<td>Department of Biomedical Sciences, Department of Specialty Medicine</td>
<td>Neurodevelopment and Neurodegeneration; Obesity Epigenetics; Diabetes</td>
</tr>
<tr>
<td>Craig Nunemaker, PhD</td>
<td>Associate Professor</td>
<td>Department of Biomedical Sciences, Diabetes Institute</td>
<td>Diabetes, Islet Biology</td>
</tr>
<tr>
<td>Patrick M. O'Connor, PhD</td>
<td>Professor</td>
<td>Department of Biomedical Sciences</td>
<td>Comparative Biology/Functional Morphology, w/ Focus on Skeletal/Dental Tissue Development And Evolution</td>
</tr>
<tr>
<td>Sherri Oliver, MPA</td>
<td>N/A</td>
<td>Community Health Programs/Area Health Education Center</td>
<td>Community Health</td>
</tr>
<tr>
<td>Lynn Petrik, BSN, RN, CCRC</td>
<td>N/A</td>
<td>Office of Research and Grants, Clinical and Translational Research Unit</td>
<td>Clinical Research Nurse</td>
</tr>
<tr>
<td>Nicole Qualls, JD, MPH</td>
<td>N/A</td>
<td>Office of Academic Affairs</td>
<td>Graduate Medical Education</td>
</tr>
<tr>
<td>Rosellen Roche, MD, PhD</td>
<td>Associate Professor</td>
<td>Department of Social Medicine/Department of Family Medicine</td>
<td></td>
</tr>
<tr>
<td>Sarah Rubin, PhD</td>
<td>Lecturer</td>
<td>Department of Social Medicine</td>
<td>Maternal and Child Health; Health Disparities</td>
</tr>
<tr>
<td>Ron Russ DO, FACOFP</td>
<td>Associate Clinical Professor, Clinical Campus Assistant Dean</td>
<td>Department of Family Medicine, HCOM-Cleveland Clinical Education</td>
<td>Clinical Medicine</td>
</tr>
<tr>
<td>Vishva M Sharma, PhD</td>
<td>Research Scientist</td>
<td>Department of Biomedical Sciences, Diabetes Institute</td>
<td>Diabetes &amp; Metabolic Diseases</td>
</tr>
<tr>
<td>Name/Degree(s)</td>
<td>Academic Rank</td>
<td>Department of Social Medicine, Director, Comparative Health Systems Program – Cuba, Ohio University</td>
<td>Area of Expertise / Research Interest</td>
</tr>
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<tr>
<td>Daniel Skinner, PhD</td>
<td>Assistant Professor</td>
<td>Department of Social Medicine, Director, Comparative Health Systems Program – Cuba, Ohio University</td>
<td>Health Policy and Medical Education</td>
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<tr>
<td>Yuriy Slyvka MD, PhD</td>
<td>Associate Lecturer</td>
<td>Department of Biomedical Sciences</td>
<td>Obesity Diabetes Type 2 Epigenetics</td>
</tr>
<tr>
<td>Nancy J. Stevens, PhD</td>
<td>Professor</td>
<td>Department of Biomedical Sciences</td>
<td>Ecology and Evolution</td>
</tr>
<tr>
<td>Melissa Kay Thomas, PhD</td>
<td>Assistant Professor</td>
<td>Department of Family Medicine</td>
<td>Health Disparities in Rural Appalachia Ohio</td>
</tr>
<tr>
<td>Nathan Wages, PhD</td>
<td>Post-Doctoral Fellow</td>
<td>Ohio Musculoskeletal &amp; Neurological Institute, Department of Biomedical Sciences</td>
<td>Clinical and Translational Physiology</td>
</tr>
<tr>
<td>Susan H Williams, PhD</td>
<td>Professor</td>
<td>Department of Biomedical Sciences</td>
<td>Anatomy, Functional Morphology and Biomechanics</td>
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<tr>
<td>Lawrence Witmer, PhD</td>
<td>Professor</td>
<td>Department of Biomedical Sciences</td>
<td>Comparative Organismal Biology</td>
</tr>
<tr>
<td>Jacqueline H. Wolf, PhD</td>
<td>Professor</td>
<td>Department of Social Medicine</td>
<td>History of Medicine/History of Birth and Breastfeeding Practices in the United States/History of Medical Overuse</td>
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<tr>
<td>Yunpeng Wu, MD, PhD</td>
<td>Associate Clinical Professor</td>
<td>Department of Specialty Medicine</td>
<td>Sleep Disorders</td>
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<tr>
<td>Fran Wymbs, PhD</td>
<td>Assistant Professor</td>
<td>Department of Family Medicine</td>
<td>Clinical Psychology, Children, Adolescents, Primary Care, ADHD, Engagement in Evidence-Based Treatments for Families with Social, Emotional, and Behavioral Problems</td>
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## APPENDIX B: FY2018 Heritage College Grant and Contract Income

### Table 1 – Heritage College Research Grant and Contract Income

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<thead>
<tr>
<th>Name</th>
<th>Unit</th>
<th>Sponsor Name</th>
<th>% Resp</th>
<th>Total Direct and Indirect Costs Received in FY 2018</th>
<th>Total Indirect Costs Received by Ohio University in FY 2018</th>
<th>Project Title</th>
<th>PI Name</th>
<th>PI Unit</th>
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<td>Benencia, Fabian</td>
<td>BMS</td>
<td>Pfizer Laboratories</td>
<td>20</td>
<td>$19,932.40</td>
<td>$4,360.20</td>
<td>2017 US Aspire Endocrine</td>
<td>Berryman, Darlene</td>
<td>BMS</td>
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<tr>
<td>Berryman, Darlene</td>
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<td>Pfizer Laboratories</td>
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Total: $4,830,523.00 $0.00
## Table 4 – Heritage College Department of Higher Education Subsidy Support

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$7,083,939.00  $0.00
### Table 5 – Heritage College Instruction and Training Grant and Contract Funding

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<td>$0.00</td>
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$580,111.00 $27,206.50
## Table 6 – Heritage College Scholarship and Fellowship Grant and Contract Funding

| Name             | Unit       | Sponsor Name                           | % Resp | Total Direct and Indirect Costs Received in FY 2018 | Total Indirect Costs Received by Ohio University in FY 2018 | Project Title                              | PI Name                      | PI TYPE   |
|------------------|------------|----------------------------------------|--------|-----------------------------------------------|-------------------------------------------------------------|-------------------------------------------|--------------------------|
| Shaub, Tracy     | Fam Med    | The Doctors Company Foundation         | 1      | $15.00                                        | $0.00                                                       | 2018 Doctors Foundation Awards Program    | Shaub, Tracy Jaramillo, Andrea | Fam Med    |
| Jaramillo, Andrea| Fam Med    | The Doctors Company Foundation         | 99     | $1,485.00                                     | $0.00                                                       | 2018 Doctors Foundation Awards Program    | Shaub, Tracy Jaramillo, Andrea | Fam Med    |
| Shaub, Tracy     | Fam Med    | Greater Cincinnati/Northern Kentucky Healthcare Foundation, Inc. | 1      | $5.00                                         | $0.00                                                       | 2018 Doctors Foundation AAFP Award Program | Shaub, Tracy Kuhlman, Amanda | Fam Med    |
| Kuhlman, Amanda  | Fam Med    | Greater Cincinnati/Northern Kentucky Healthcare Foundation, Inc. | 99     | $495.00                                       | $0.00                                                       | 2018 Doctors Foundation AAFP Award Program | Shaub, Tracy Kuhlman, Amanda | Fam Med    |

|                            |            |                                        |        | Total Indirect Costs Received by Ohio University in FY 2018 | $2,000.00                                                   | $0.00                                     |


## APPENDIX C: FY2018 Heritage College External Grant and Contract Proposals

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<td>Ohio Department of Health</td>
<td>CO-PI</td>
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<td>Support Addiction Recovery in Rural Appalachia</td>
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<td>Role</td>
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<td>Pending</td>
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<td>Evaluating the Efficacy of Family Navigation and the Impact on Outcomes of Infants Born with NAS</td>
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APPENDIX D: FY2018 Heritage College Publications

BOLD indicates Heritage College Faculty
* indicates Heritage College Staff
BLUE indicates Ohio University Collaborator
Underline indicates Ohio University student

Peer-Reviewed


35. Drozek, D. A rural kid’s cooking camp emphasizing a plant-based diet demonstrated improved nutritional knowledge and motivation for healthy eating, American Journal of Lifestyle Medicine, Jan 2018.


Medical Students’ Knowledge and Attitudes toward Skin Cancer and Sun-Protective Behaviors. Accepted to Journal of the American Osteopathic Association, 2018, 118(7):444-454.


92. McGraw-Tatum MA, Groover MT, George NE, Urse JS, Heh V*. A Prospective, Randomized Trial Comparing Liposomal Bupivacaine vs Fascia Iliaca Compartment Block for Postoperative Pain Control in Total Hip


140. Venkatesh A, Nandigam H, Muccioli M, Singh M, Loftus T, Lewis D, Pate M, Benencia F. Regulation of


**Books**


**Book Chapters**


7. **Luong Q and Lee KY.** “The Heterogeneity of White Adipose Tissue” Adipose Tissue, pp.35-46. DOI: 10.5772/intechopen.71377


# Appendix E: FY2017 Heritage College Intramural Funding

## Table 1 – 1804 Grad/Faculty Awards

<table>
<thead>
<tr>
<th>PI Last Name</th>
<th>PI First Name</th>
<th>Dept</th>
<th>College</th>
<th>Type</th>
<th>Co-Is</th>
<th>Title</th>
<th>Amt Requested</th>
<th>Recomm. Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wyatt</td>
<td>Sarah</td>
<td>Env Plt Bio</td>
<td>A&amp;S</td>
<td>Grad</td>
<td>John Kopchick (HCOM) Darlene Berryman (HCOM) Monica Burdick (Engineering) Erin Murphy (HCOM) Morgan Vis (A&amp;S) Zhihua Hua (A&amp;S)</td>
<td>Acquisition of Covaris Instrumentation to Enhance Research Infrastructure</td>
<td>$63,545</td>
<td>$63,545</td>
</tr>
</tbody>
</table>

## Table 2 – Baker Awards

<table>
<thead>
<tr>
<th>Type</th>
<th>Proposal #</th>
<th>PI Last Name</th>
<th>PI First Name</th>
<th>Dept</th>
<th>Title</th>
<th>Amt. Requested</th>
<th>Amt. Funded</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Baker</td>
<td>BA 18-02</td>
<td>Skinner</td>
<td>Franz</td>
<td>Social Med</td>
<td>Medical Urbanism</td>
<td>$9,602</td>
<td>$9,002</td>
<td>Funded</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Daniel</td>
<td>Berkeley</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Baker</td>
<td>BA 18-10</td>
<td>Chertok</td>
<td>Haile</td>
<td>Nursing Social Med (OU-Dublin)</td>
<td>Timing of Lactogenesis II among Women with and without Gestational Diabetes</td>
<td>$12,000</td>
<td>$12,000</td>
<td>Funded</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ilana</td>
<td>Zelalem</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Table 3 – Student Enhancement Awards (SEA)

<table>
<thead>
<tr>
<th>Student’s Name</th>
<th>Mentor’s Name (PI)</th>
<th>Title</th>
<th>Mentor’s Department</th>
<th>Amount Funded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nassif, James</td>
<td>Larry Witmer</td>
<td>Assessing the Form and Function of the Hearing Apparatus in Dinosaurs</td>
<td>Biomedical Sci</td>
<td>$5,689</td>
</tr>
<tr>
<td>Olson, Rachel</td>
<td>Susan Williams</td>
<td>Comparative Insights into the Anatomy, Function, and Biomechanics of the Mammalian Tongue</td>
<td>Biomedical Sci</td>
<td>$5,700</td>
</tr>
<tr>
<td>Shriwas, Pratik</td>
<td>Xiaozhuo Chen</td>
<td>Characterization of a Novel Anticancer Agent In Vitro</td>
<td>Biomedical Sci</td>
<td>$5,696</td>
</tr>
</tbody>
</table>

### Table 4 – Provost’s Undergraduate Research Funds (PURF)

<table>
<thead>
<tr>
<th>Mentor Name</th>
<th>Mentor Dept.</th>
<th>Student Name</th>
<th>Title</th>
<th>Amt. Funded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Berryman, Mark</td>
<td>HCOM-Biomedical Sciences</td>
<td>Gomez, Sal</td>
<td>Does CLICS bind directly to protein phosphatase 1?</td>
<td>$ 1,500</td>
</tr>
</tbody>
</table>

### Table 5 – Kopchick Awards

<table>
<thead>
<tr>
<th>Award Type</th>
<th>Mentor Name</th>
<th>Mentor Dept.</th>
<th>Student Name</th>
<th>Total Budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grad Fellowship</td>
<td>Kelly McCall</td>
<td>Biomedical Sciences</td>
<td>Ashley Patton</td>
<td>$15,000</td>
</tr>
<tr>
<td>Grad Fellowship</td>
<td>Kevin Lee</td>
<td>Biomedical Sciences</td>
<td>Quyen Luong</td>
<td>$15,000</td>
</tr>
<tr>
<td>Grad Fellowship</td>
<td>Darlene Berryman</td>
<td>Biomedical Sciences</td>
<td>Elizabeth Jensen</td>
<td>$15,000</td>
</tr>
<tr>
<td>Grad Fellowship</td>
<td>Xiaozhuo Chen</td>
<td>Biomedical Sciences</td>
<td>Pratik Shriwas</td>
<td>$9,998.00</td>
</tr>
<tr>
<td>UG Award</td>
<td>Kevin Lee</td>
<td>Biomedical Sci</td>
<td>Mitchell Harberson</td>
<td>$1,500</td>
</tr>
<tr>
<td>UG Award</td>
<td>Chunmin Lo</td>
<td>Biomedical Sci</td>
<td>Sydney Pence</td>
<td>$1,500</td>
</tr>
</tbody>
</table>
### Table 6 – Undergraduate Travel Awards

<table>
<thead>
<tr>
<th>Student Name</th>
<th>Dept.</th>
<th>Award Amount</th>
<th>Mentor Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barnhart, Corrine</td>
<td>Specialty Med</td>
<td>$500</td>
<td>David Drozek</td>
</tr>
</tbody>
</table>
APPENDIX F: FY2018 Heritage College Oral Presentations, Posters, Published Abstracts, Professional Speaking Engagement, Invited Research Presentations at Conferences, Research Seminars, and Special Research Efforts (e.g. Sabbatical Research, Visiting Scientist)

**BOLD** indicates Heritage College Faculty
* indicates Heritage College Staff
**BLUE** indicates Ohio University Collaborator
Underline indicates Ohio University student

**Berryman, Darlene**
- **Berryman DE** (April 6, 2018) Innovations that impact lives, the future of diabetes (panel discussion). BioOhio, Nelsonville, OH
- **Berryman DE** (April 13, 2018) Diabetes: the other hard-hitting epidemic in rural Appalachian Ohio and West Virginia. Annual Meeting of the Society of Behavioral Medicine, New Orleans, LA
- **Berryman DE** (February 12, 2018) Growth hormone and adipose tissue tissue paradox: lean and “unhealthy” versus obese and “healthy” Department of Endocrinology, Erasmus MC, Rotterdam, The Netherlands
- **Berryman DE** (February 15, 2018) Growth hormone and adipose tissue fibrosis in mouse models. Endocrinology Division, Aarhus University, Aarhus, Denmark.
- **Berryman DE** (February 28, 2018) Growth hormone and the adipose tissue paradox: quantity versus quality. Department of Chemistry, John Carroll University, Cleveland, OH
- **Berryman, DE** (July 26, 2017) Conducting research in a teaching intensive faculty position. Growth Hormone/Prolactin Family in Biology and Disease. FASEB Summer Conference. Steamboat Springs, CO
- **Berryman DE**. (June 16, 2018) Big fat myths about weight and diet. Women’s Leadership Symposium. Ohio State University.
- **Berryman DE**. (November 15, 2017) Big fat myths about obesity. Central Ohio Dietetics Association Meeting, Dublin, OH
Beverly, Elizabeth

- **Cuevas KM**, Balbo J, Duval K, **Beverly EA**. Neurobiology of Sexual Assault and Osteopathic Considerations for Trauma Informed Care and Practice. Poster presented at the Ohio Osteopathic Symposium, April 28, 2018.

Casapulla, Sharon

- **Casapulla, S**. Evaluating the Rural and Urban Scholars Pathways Program: Outcomes after 4 Years. (April, 2018). RTT Collaborative Annual Meeting, Spokane, WA
• **Casapulla, S., Kropf, K.,** Randolph, C. Evaluating the Rural and Urban Scholars Pathways Program: Outcomes after 4 Years. (February, 2018). Workshop presented at the Society for Teachers of Family Medicine Annual Medical Education Conference. Austin, TX

• Cronin, C.E., **Casapulla, S.,** & Garlington, S. (June, 2018). Structural competency in health services administration: Exploring local needs. Poster presented at the annual meeting of the Association of University Programs in Health Administration, Philadelphia, PA. Poster Session Award: 3rd place.


**Chavan, Bhakti**

• Alkhalileh D., **Chavan B., Haile ZT.** Association Between Stressful Life Events and Excessive Gestational Weight Gain Among Women With Normal Prepregnancy Body Mass Index. Abstract approved for presentation at the 2017 North American Primary Care Research Group, November 2017, Montreal, Canada.

• **Gachett C., Chavan B., Haile ZT.** Correlation Between Self-Reported Hearing Conditions and Clinically Based Diagnosis of Hearing Abnormalities in US Adults. Abstract approved for presentation at the 2017 North American Primary Care Research Group, November 2017, Montreal, Canada.


• **Moran M., Chavan B., Haile ZT.** The Relationship Between Risky Sexual Behavior and Barrier Methods of Contraception Use Among College Students. Abstract approved for presentation at the 2017 North American Primary Care Research Group, November 2017, Montreal, Canada.

• **Nishimura S., Chavan B., Haile ZT.** Association Between Food Allergies and Asthma in US Adults. Abstract approved for presentation at the 2017 North American Primary Care Research Group, November 2017, Montreal, Canada.

• **O'Day J., Chavan B., Haile ZT.** The Relationship Between Maternal Postpartum Depression and Symptoms of Childhood Depression and Anxiety at Year Six. Abstract approved for presentation at the 2017 North American Primary Care Research Group, November 2017, Montreal, Canada.

**Chen, Xiaozhuo**

• **Pratik Shriwas et al.,** Screening and identification of new generation glucose transporter inhibitors as anticancer therapeutics, Appalachian Regional Cell Conference 2017, Athens, Ohio, November 2017. **David Cottrill, et al.** Inhibition of glucose transport by α-PGG and 6Cl-TGQ decreases oxidative stress and increases viability of glucose stressed INS-1 832/13 cells. Appalachian Regional Cell Conference 2017


• **Xiaozhuo Chen**, seminar: ATP: Oldest Biomolecule with Newest Discovered Roles in Human Diseases. West Virginia State University, Charleston, WV. March 6, 2018.


• Xuan Wang, Yunsheng Li, Yanrong Qian, Yanyang Cao, Pratik Shriwas, Haiyun Zhang, **Xiaozhuo Chen.** Extracellular ATP induces different types of drug resistances in cancer cells through ATP internalization-mediated intracellular ATP level increase. American Association of Cancer Research (AACR) Annual Meeting, Chicago, Illinois USA, April 14-18, 2018.


**Clark, Brian**

• Age of Champions. Invited Speaker. Open Academy of Medicine. Venice, Italy., 2017
- How to Diagnose Sarcopenia. Invited Speaker. ICFSR Task Force on Drug and Nutrition Trials for Frailty and Sarcopenia Managing Sarcopenia. Miami, FL., 2018
- Neuromuscular changes with aging and sarcopenia. Invited Keynote Speaker. International Conference on Frailty and Sarcopenia Research. Miami, FL., 2018
- Potential strength and power endpoints for muscle mass agent in sarcopenia. Invited Speaker. REGN 1033-2466 Combo Skeletal Muscle Mass Augmentation Round Table., 2018

Clark, Leatha
- Co-Investigator - THE POTENTIAL CONTRIBUTION OF INTRINSIC MOTONEURON EXCITABILITY TO MUSCLE WEAKNESS AND AGING , Proceedings from the 8th World Congress on Biomechanics, Nathan P. Wages, Ph.D., Leatha A. Clark, DPT*, M.S., Sherif M. Elbasiouny, Ph.D. and Brian C. Clark, Ph.D., Abstract # P26666, Dublin Ireland July 8-12, 2018.
- Co-Investigator - MUSCULAR, VISUOSPATIAL PROCESSING, AND NEUROMOTOR FACTORS AS PREDICTORS OF PHYSICAL FUNCTION IN OLDER ADULTS , Nathan P. Wages, Ph.D., Leatha A. Clark, DPT*, M.S, Andrew M. Bryant, M.A., Julie A. Suhr, Ph.D., Todd M. Manini, Ph.D., and Brian C. Clark, Ph.D., #OC15, 8th International Conference on Frailty & Sarcopenia Research, March 1-3, 2018, Miami – USA. The Journal of Frailty and Aging (JFA). 2018
- Co-Investigator - Relationship between patient-reported outcome measures and leg extensor muscle weakness in older adults., Janet E. Simon, PhD,1,2 Brian C. Clark, PhD,1Anoop Balachandran PhD,, Leatha A. Clark DPT MS*,Simon Moskowitz, Todd M. Manini PhD, #OC40, 8th International Conference on Frailty & Sarcopenia Research, March 1-3, 2018, Miami – USA. The Journal of Frailty and Aging (JFA). 2018
- Co-Investigator and presenter - Impairment in neural activation is a key contributor to clinically meaningful muscle weakness (i.e., Dynapenia) in Elderly Women., Clark, LA*, S Amano*, DW Russ, TD Law, and BC Clark. 8th International Conference on Frailty & Sarcopenia Research, March 1 -3, 2018, Miami – USA. Biology of Frailty and Aging P2. The Journal of Frailty and Aging (JFA). 2018

Coschigano, Karen

Drozek, David
- Alexandria Defabio, OMS III, Randi Amstadt, DO, Masato Nakazawa, PhD, Godwin Dogbey, PhD*, David Drozek, DO, Body Mass Index Change as a Predictor of Biometric Changes Following a Lifestyle Modification Program, NAPCRG, Montreal, CA, November 17-21, 2017.
- Christopher Sosnofsky-OMSII, BS, Katrina Hamilton, BA, Godwin Dogbey, PhD*, David Drozek, DO, Trimethylamine N-oxide and a Plant-based Diet: A Pilot Study, NAPCRG, Montreal, Canada, November 17-21, 2017.


• Godwin Dogbey, PhD*, Katrina Hamilton, BA, Snow Adler, OMS-II, David Drozek, DO, The effect of email on persistence of lipid and glucose changes after lifestyle modification, NAPCRG, Montreal, Canada, November 17-21, 2017.

• Health Equity in Southeast Ohio, Is there Another Option for Healthcare? Appalachian Health Summit, Athens, Ohio, May 10, 2018.


• Invited to present at the Patient Centered Outcomes Research Initiative Cardiovascular Disease Research Appalachian Regional Conference, Johnson City, TN, Aug 30, 2018.

• James Hubert, OMSII, Katrina Hamilton, BA, Godwin Dogbey, PhD*, David Drozek, DO, Relationship between vitamin D and chronic diseases in impoverished communities in Lima, Peru. Accepted for presentation American College of Lifestyle Medicine Annual Conference, Tucson, AZ, Oct 22-25, 2017, withdrawn due to scheduling conflict.

• Jose Manuel Vela Ruiz, Ricardo Medrano, Carolina Vilca, Claudia Torres, David Drozek, Lucy Correa-Lopez, Jhony A De la Cruz-Vargas, Lifestyle Associated with Presence of Helicobacter pylori in the North of Lima, Peru, International Conference on Lifestyle Medicine, Lima, Peru, November 30-December 1, 2017.

• Katrina Hamilton, Peggy Zoccola, Laura Jensen*, David Drozek, Biopsychosocial Correlates of Pain Intensity and Daily Functioning in Individuals with Chronic Pain, 2018 American Psychosomatic Society Annual Meeting, Louisville, KY March 7-10, 2018.

• Kelsea Killin, David Drozek, DO, John Paes, DO, Prevalence of Dyslipidemia in People Living in Poverty in Northern Lima, Peru, International Conference on Lifestyle Medicine, Lima, Peru, November 30-December 1, 2017.


• Ricardo Medrano Amuy, Claudia Torres Otarola, Carolina Vilca Tapullima, Lucy Correa Lopez, David Drozek, Jhony De la Cruz Vargas, Index of Body Mass as a Risk Factor to Develop Anemia in a Population of 9 Districts of the North of the City of Lima, Peru 2017, International Conference on Lifestyle Medicine, Lima, Peru, November 30-December 1, 2017.

• Tyler Sauerbeck, Laura Jensen*, David Drozek, Disease prevalence of children living in poverty in northern Lima, Peru, Ohio Osteopathic Symposium, Columbus, OH, April 28, 2018.
Forster, Lisa


Franz, Berkeley


- 2017 “Hospital-led Community Health Needs Assessments in Appalachian Ohio: Public Health Implications for Diabetes and other Chronic Illnesses” for the Lunchtime Learning Seminar at O’Bleness Hospital. Athens, OH.

- 2018 “An Introduction to the Social Determinants of Health” for the P.U.L.S.E. Summer Nursing Education Program. O’Bleness Hospital. Athens, OH.

- 2018 “Hospital-led Community Health Needs Assessments in Appalachian Ohio: Public Health Implications for Diabetes and other Chronic Illnesses” for the Lunchtime Learning Seminar at O’Bleness Hospital. Athens, OH.


Grijalva, Mario

- Anthony Brusnahan, Maria José Carrasco, Claudia Nieto, Rosellen Roche, and Mario J. Grijalva. Interrelationship between Occupational and Physical Wellness in the Context of Neglected Tropical Disease. 45th NAPCRG Annual Meeting took place November 17-21 in Montreal, Quebec, 2017


- Castillo F., Moncayo AL., Yumiseva CA, Grijalva MJ., Villacís AG. Bionomics characteristics of Pantrongylus howardi (Neiva, 1911) a endemic species of Manabí, and its possible distribution in Ecuador. XLI Jornadas Nacionales de Biología 23 and 25 of November. Quito- Ecuador, 2017

- Development of research capacity in Ecuador. CiSeAL. University of Glasgow, December. 2017.


**Guseman, Emily**

- **Guseman EH**, Whipps J, **Beverly EA**. First year osteopathic medical students’ knowledge and attitudes toward physical activity and the integration of lifestyle counseling in primary care. Poster presented at the annual meeting of the Society of Behavioral Medicine, New Orleans, LA, April 2018.
- **Swan A**, Ivanov NN, Baah N, Jensen LL*, **Guseman EH, Beverly EA**. Osteopathic Medical Students’ Experiences with Chronic Skin Conditions and their Subsequent Psychosocial Impact. Poster presented at the Ohio Osteopathic Symposium, April 28, 2018

**Haile, Zalalem**

- Alkhalaileh D., **Chavan B., Haile ZT**. Association between Stressful Life Events and Excessive Gestational Weight Gain among Women with Normal Prepregnancy Body Mass Index. North American Primary Care Research Group, November 2017, Montreal, Canada.


• Haile, ZT. (June 2018). Lectures on: Basic analytical techniques; Developing a research plan; Quantitative Analysis using SAS; Analysis of secondary data; Using existing data to answer research questions; Methods for analysis of existing data; Developing analytical plan. Botswana Research Training Program, June 12-24, 2018. Gaborone, Botswana

• Ice GH., Gast J., Bianco J., Marape M., Maruapula S., Kamanda C., Harper E., Keakabetse, Haile, ZT. Nutrition, body image and chronic disease among Batswana adults. 43rd Annual Meeting of the Human Biology Association, April 2018, Austin, TX.


• Moran M., Chavan B., Haile ZT. The Relationship between Risky Sexual Behavior and Barrier Methods of Contraception Use among College Students. North American Primary Care Research Group, November 2017, Montreal, Canada.

• Nishimura S., Chavan B., Haile ZT. Association between Food Allergies and Asthma in US Adults. 2017 North American Primary Care Research Group, November 2017, Montreal, Canada.

• O'Day J., Chavan B., Haile ZT. The Relationship between Maternal Postpartum Depression and Symptoms of Childhood Depression and Anxiety at Year Six. North American Primary Care Research Group, November 2017, Montreal, Canada.

• Slemmer A., Law, T., Haile ZT. Perceptions of Vaccines among the Amish, Mennonite, and Plain Communities. Ohio Osteopathic Symposium, April 2018, Columbus, OH.

• Wickramanayake, S., Chavan, B., Haile ZT. Racial/Ethnic Differences in Receipt of Counselling on Domestic Violence during Prenatal Care. Ohio Osteopathic Symposium, April 2018, Columbus, OH.


James, Calvin

• Presentation (Capital University, Columbus, OH) Coxsackievirus B-4: Role as an environmental trigger in Type 1 Diabetes

Jonas, Blythe


Kerr, Anna


Kopchick, John


• “GH, Mini Mice, Football, Dirty Shorts and a New Drug”, Miami University, Oxford, Ohio, April 19, 2018.

• “Growth Hormone, Little Mice, Football, and a New Drug”, Tri Beta, Ohio State University, Columbus, Ohio, October 5, 2017.

• “Growth Hormone, Little Mice, Football, and a New Drug”, Tri Beta, Ohio State University, Columbus, Ohio, October 5, 2017.

• “If Cells Could Talk: Growth Hormone and Crosstalk Between Metabolic Organs”, Novo Nordisk Foundation Center for Basic Metabolic Research, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark, August 21, 2017.

• “If Cells Could Talk: Growth Hormone and Crosstalk Between Metabolic Organs”, Novo Nordisk Foundation Center for Basic Metabolic Research, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark, August 21, 2017.

• “Mouse Models of GH Action”, Erasmus University, Rotterdam, The Netherlands, February 12, 2018.

• “Mouse Models of GH Action”, The University of Aarhus Medical School, Aarhus, Denmark, February 15, 2018.

• Basu, R., Wu, S., Kopchick, J.J. Effects of modulation of the growth hormone axis in human melanoma cells. The 8th International Congress of the GRS and IGF Society, Tel Aviv, Israel, November 6-9, 2017.


• Berryman DE, Householder LA, Comisford R, Troike KT, Wilson C, Henry BE, List EO, Kopchick JJ. Increasing fibrosis: a novel means by which growth hormone may limit white adipose tissue (WAT) expansion. The 8th International Congress of the GRS and IGF Society, Tel Aviv, Israel, November 6-9, 2017.

• Brittain AL., Menon, RK. and Kopchick, JJ. The role of growth hormone action in the glomerulus: studies of the podocyte-specific growth hormone receptor gene-deleted mouse. The 8th International Congress of the GRS and IGF Society, Tel Aviv, Israel, November 6-9, 2017.

• Brooks NE, Hjortebjerg, Henry BE, List EO, Kopchick JJ, Berryman DE. Fibroblast growth factor 21, fibroblast growth factor receptor 1 and β-Klotho expression in bovine GH transgenic and GH receptor
knockout mice. The 8th International Congress of the GRS and IGF Society, Tel Aviv, Israel, November 6-9, 2017.

- Buchman M, List EO, Berryman DE, Wilson C, Kopchick JJ. Analysis of collagen content of various tissues in insulin resistant bovine GH transgenic mice. The 8th International Congress of the GRS and IGF Society, Tel Aviv, Israel, November 6-9, 2017.


- Funk KR, List EO, Berryman DE. Gase G, Buchman M, Hata M, Kopchick JJ. Isolated mitochondria from liver and brain of long-lived growth hormone receptor gene disrupted mice demonstrate reduced respiration rates. 8th International Congress of the GRS and IGF Society, Tel Aviv, Israel, November 6-9, 2017.

- Henry BE, Benencia F, Comisford R, List EO, Kopchick JJ, Berryman DE. Identification and analysis of immune cell populations in white adipose tissue depots of growth hormone receptor knockout mice. The 8th International Congress of the GRS and IGF Society, Tel Aviv, Israel, November 6-9, 2017.

- Invited Selection Committee Member & Presentation, Grants for Growth Innovation, Munich, Germany, June 11, 2018.


- Invited Symposium Speaker, Impact of the GH-IGF axis on adipose tissue and obesity, The 19th Brazilian Neuroendocrine Congress Sao Paulo, Brazil, June 5, 2018.


disrupted mice (AdGHRKO) generated with the adiponectin-Cre have enhanced insulin sensitivity despite obesity. Seattle, Washington, September 14-17, 2017.


- **Troiike KM, Henry BE, Gase GC, Young JA, List EO, Kopchick JJ, Berryman DE** Quantification of UCP1 and oxygen consumption rate in adipose tissue depots of bGH mice. The 8th International Congress of the GRS and IGF Society, Tel Aviv, Israel, November 6-9, 2017.

- **Young JA, Stevens A, Kopchick JJ.** Intestinal Fibrosis in Response to GH. The 8th International Congress of the GRS and IGF Society, Tel Aviv, Israel, November 6-9, 2017.


Lee, Kevin

- “Heterogeneity of Adipocyte Subpopulations: Implications for Growth Hormone Action” Aarhus University Hospital. Aarhus, Denmark. (February 15, 2018)

- “Intrinsic Heterogeneity of White Adipocytes” Cleveland State University; Cleveland, OH (October 20, 2017).

- “Intrinsic Heterogeneity of White Adipocytes” Denison College; Granville, OH (November 11, 2017).


- “Intrinsic Heterogeneity of White Adipocytes” Kent State University. Kent, OH. (April 26, 2018).

- “Intrinsic Heterogeneity of White Adipocytes” Marshall University, Huntington, WV. (March 6, 2018).

- “Intrinsic Heterogeneity of White Adipocytes” Ohio State University; Columbus, OH (September 29, 2017).

- “Intrinsic Heterogeneity of White Adipocytes” West Virginia State University. Huntington, WV. (April 13, 2018).

- “Intrinsic Heterogeneity of White Adipocytes” Work-in-progress Seminar. Ohio State University; Columbus, OH (September 29, 2017).

- “Mechanisms of Growth Hormone-Mediated Lipolysis” Erasmus Medical Center. Rotterdam, Netherlands. (February 12, 2018)


- Wilms’ Tumor 1 (Wt1)-derived Adipocytes are Associated with Adipose Tissue Inflammation. Quyen Luong (presenter). Poster Presentation. November 2017. Appalachian Regional Cell Conference. Ohio University, Athens. OH


Lo, Chunmin
• Oral presentation at the department of Biology in West Virginia State University, March 30, 2018. Apolipoprotein A-IV and cholecystokinin interact to control glucose and energy homeostasis.

Longenecker, Randall
• Longenecker R. Rural Health Professions Education Research: Design and Dissemination Studio. Workshop at NOSORH Region A Meeting, Charlottesville, VA, June 12, 2018.
• Longenecker R. Rural Health Professions Education Research: Design and Dissemination Studio. Preconference to The RTT Collaborative Annual Meeting, Spokane, WA, April 11, 2018.

McCall, Kelly

Murphy, Erin
• “RNA-Mediated Regulation in Bacteria”. Capital University. Columbus, OH. April 2018.
• “RNA-Mediated Regulation of Shigella Virulence Gene Expression: Not Too Hot...Not Too Cold...Just Right”. Otterbein University. Westerville, OH. November 2017.

Nottingham, Kelly
• Anna Kerr; Sue Meek*; Kristin Kerwin; Stacy Lee*; Lisa Forster*; Kelly Nottingham*. “Feasibility of Nurse-Led Family Navigator Program in Rural Appalachian Community.” North American Primary Care Research Annual Conference, Montreal, Canada – Research in Progress – Nov 2017 [poster presentation]
• Kelly Nottingham*; Sherri Oliver*; Amy Lipka; Emily Quesinberry. “Live Healthy Appalachia Cooking Coaches: Evaluating a community-based cooking course.” North American Primary Care Research Annual Conference, Montreal, Canada – Research in Progress – Nov 2017 [poster presentation]
• Thomson, N; Klaus, B; Lechleiter, D; and Nottingham, K.* “Creating a Patient Centered Research Community (PCRC) to Support Rural Mental Health” National Association for Rural Mental Health, San Diego, CA, Aug 2017. [Oral presentation/workshop]
• Todd Fredricks; Brian Plow; Elizabeth Beverly; Sebastian Diaz; Anna Kerr; Lisa Forster*; Kelly Nottingham*. The Veteran’s Project. North American Primary Care Research Annual Conference, Montreal, Canada – Research in Progress – Nov 2017 [poster presentation]

Nowak, Felicia
• “Porf-2 = Arhgap39 = Vilse: A Pivotal Role in Learning and Memory”, seminar presented to the Department of Neuroscience, Kenyon College, Gambier, OH, 26 April, 2018.

Nunemaker, Craig
• “Islets in Overdrive: glycolytic hyperactivity as a driving force in Type 2 Diabetes.” October 27, 2017, Cleveland State University, Cleveland, OH.
• Gelin L, Li J, Corbin KL*, Jahan J, Nunemaker CS. Metformin inhibits islet insulin secretion and disrupts intracellular calcium in a dose-dependent and duration-dependent manner near the therapeutic range. Appalachian Regional Cell Conference, Ohio University, December 2, 2017. Placed 2nd in poster competition.


Oliver, Sherri

Petrik, Lynn
• “Handling a Needlestick Injury in a Research Setting: Accident to Innovation,” Al-Farabi Kazakh National University, Almaty, Kazakhstan, April 20, 2018.
• “Handling a Needlestick Injury in a Research Setting: Accident to Innovation,” Kazakh National Medical University, Almaty, Kazakhstan, April 23, 2018.

Qualls, Nicole
• 2018 Association of Hospitals in Medical Education Institute: “Perfecting the Self Study: An Imperfect Art”.

Roche, Rosellen
• Vagedes, R., Rachhi, N., Lehan, N., Roche, R., and Graham, D., 2018. Service-Based Learning to Create a Community-Engaged Physician at the Ohio Osteopathic Symposium, Columbus, Ohio.
• 38th Forum for Behavioral Science in Family Medicine Chicago, IL Paper: (with Chrisman-Khawam) Primary Care, 3-year UME/GME Continuum Education: Promoting a Patient-Centered Model, 2017.

Rubin, Sarah

Skinner, Daniel
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• “Ohio Common Ground for Action: The Opioid Crisis,” Institute for Democratic Engagement and Accountability (participant), The Ohio State University, Columbus, OH, November 7, 2017.
• Columbus Roundtable on Opioid Crisis, Sponsored by Ohio State Representative Sprague, October 17, 2017.
• Panel on Social Justice in Health Care, Benjamin Rush Institute National Leadership Conference, Columbus, OH, March 9, 2018.

Slyvka, Yuri


Stevens, Nancy


Thomas, Melissa

• Thomas, M.K. (2017, October). Speaking with our hearts: Developing community-led programs (or collaborations) in Amish Country. Concurrent session speaker at the Appalachia Translational Research Network (ATRN) Summit, Hershey, PA.
Wages, Nathan

- Co-Author, Is the Magnitude of Cross Education Dependent on Initial Strength Levels, Motor Control, National Strength and Conditioning Association, Indianapolis, Indiana, July 11-14, 2018
- PI, Muscular, Visuospatial Processing, and Neuromotor Factors as Predictors of Physical Function in Older Adults, Oral Communication 15, International Conference on Frailty & Sarcopenia Research, Miami, Florida, March 1-3, 2018
- PI, The Potential Contribution of Intrinsic Motoneuron Excitability to Muscle Weakness and Aging, Motor Control, World Congress of Biomechanics, Dublin, Ireland, July 8-12, 2018

Williams, Susan


Witmer, Larry

- Departmental seminar: Department of Biological Sciences seminar series, Sam Houston State University, 9 November 2017. “Fleshing out the past: exploring dinosaur anatomy and function with advanced 3D modeling.”
- Departmental seminar: Ecology, Evolution, and Organismal Biology (EEOB) seminar series, Iowa State University, 26 October 2017. “Fleshing out the past: exploring dinosaur anatomy and function with advanced 3D modeling.”

• Nassif, J. P., and L. M. Witmer. 2018. Understanding the consequences of anatomically extreme single-ossicle middle-ear systems in extinct reptiles. 41st Annual Midwinter Meeting of the Association for Research in Otolaryngology, 2018 February; San Diego, CA.


**Wolf, Jackie**

• **Jacqueline H. Wolf,** “Health Policy and End-of-Life Care in the United States,” Health Policy Fellowship, May 4, 2018, Chicago, IL.

• **Jacqueline H. Wolf,** “Impact of Workforce Practice Patterns on Cost and Quality of Care: Lessons from the Increase in Cesarean Sections,” Health Policy Fellowship, February 24, 2018, Phoenix, AZ.


• **Jacqueline H. Wolf,** Panel Chair, “Caring for Body, Mind, and Soul,” American Association for the History of Medicine annual meeting, May 12, 2018, Los Angeles, CA.

APPENDIX G: FY2018 Heritage College Honors and Awards

Fellowship Awards:
Drozek, David
- Fellow of the American College of Lifestyle Medicine, to be inducted October 2017.

Thomas, Melissa
- Fellow, 2017-2018 Society of Behavioral Medicine Leadership Institute

Named Endowments:
Clark, Brian
- Harold Clybourne, DO Endowed Research Chair

Witmer, Larry
- Chang Ying-Chien Endowed Professor of Paleontology (since 2007)

Other Research Awards:
Forster, Lisa
- Recipient of Award of Distinction, Integrated Campaign, Academy of Interactive and Visual Arts for The Veterans Project [Documentary film] (2017) – Alisa Warren (Lead Designer/Social Medial Manager); Todd Fredricks, DO (Content Producer); Zac Vance (Graphic Designer); Lisa Forster (Communication Specialist), Kelly Nottingham (Administrative Coordinator)

Franz, Berkeley

Haile, Zelalem
- 2018 Outstanding Research Mentor, CPC I, Distinguished Osteopathic Commitment Awards, Ohio University Heritage College of Osteopathic Medicine
- 2018 Outstanding Research Mentor, CPC II, Distinguished Osteopathic Commitment Awards, Ohio University Heritage College of Osteopathic Medicine

Longenecker, Randall
- Recognized as a rural “Researcher“ by Federal Office of Rural Health Policy, https://www.ruralhealthresearch.org/researchers/randall-longenecker

Nottingham, Kelly
- Recipient of Award of Distinction, Integrated Campaign, Academy of Interactive and Visual Arts for The Veterans Project [Documentary film] (2017) – Alisa Warren (Lead Designer/Social Medial Manager); Todd Fredricks, DO (Content Producer); Zac Vance (Graphic Designer); Lisa Forster (Communication Specialist), Kelly Nottingham (Administrative Coordinator)

Rubin, Sarah
- 2018 Distinguished Osteopathic Commitment Award. Outstanding Research Mentor, OU-HCOM
- 2017 Distinguished Osteopathic Commitment Award. Outstanding Research Mentor, OU-HCOM

Skinner, Daniel
- 2012-2018 Ambassador Program, Patient-Centered Outcomes Research Institute, Alexandria, VA

Stevens, Nancy
- Presidential Research Scholar, Ohio University
APPENDIX H: FY2018 Heritage College Scholarly Review

Editorial Review Boards:

**Berryman, Darlene**
- 2015-present: Editorial Review Board, Endocrinology

**Beverly, Elizabeth**
- Review Board Member, Teaching and Learning in Medicine

**Duan, Wei-Ming**
- Cell Transplantation
- Experimental Neurology
- Journal of Neurorestoratology

**Grijalva, Mario**
- Journal Parasites and Vectors

**Kopchick, John**
- Endokrynologia Polska (2005 – present)
- Pituitary (2010 – present)

**McCall, Kelly**
- Editorial board member for *Integrity and Ethics* (5/2014 – Present)
- Editorial board member for the *Journal of Antivirals & Antiretrovirals* (8/4/2010 – Present)
- Editorial board member of the *Journal of the Pancreas* (3/20/14 - Present)

**Nowak, Felicia**
- Journal of Diabetes Mellitus, 2011-present

**Nunemaker, Craig**
- Journal of Diabetes Research
- Biological Procedures Online

**Skinner, Daniel**
- 2018-Present *World Medical & Health Policy* (Wiley-Blackwell)
- 2018-Present *Journal of Medical Education and Curricular Development* (Sage)

**Stevens, Nancy**
- Ohio University Press Editorial Board

**Thomas, Melissa**
- Health Education and Behavior
- Journal of Rural Health
- Journal of Women’s Health
- Journal of Amish and Plain Anabaptist Studies: Special Edition-Health and Health Care

**Wolf, Jackie**
- Editorial board member of the Journal of Human Lactation

Associate or Senior Editor:

**Beverly, Elizabeth**
- Associate Editor, Journal of the American Osteopathic Association

**Haile, Zelalem**
- Associate Editor: BMC Public Health
- Academic Editor: PLOSoNE

**McCall, Kelly**
- Editor for *Journal of the Pancreas* (3/20/14 - Present)

**O’Connor Pat**
- Senior Editor: Journal of Vertebrate Paleontology (Taylor and Francis), 01/2014 through 03/2018.
Skinner, Daniel
- 2015-Present Associate Editor for the Americas, Critical Public Health

Williams, Susan
- Integrative Organismal Biology, Associate Editor

Wolf, Jackie
- Guest editor of the January 2018 special issue of the Journal of the History of Medicine and Allied Sciences on the history of 20th century childbirth

**External Grant Reviewer:**

Berryman, Darlene
- 2017 : Grant Reviewer, Pilot Feasibility Application, UAB Nutrition and Obesity Research Center (NORC)
- 2017 : Grant Reviewer, Research and Development Excellence Program, University of Kentucky

Consitt, Leslie
- ZonMw – The Netherlands Organisation for Health Research and Development and Dutch Diabetes Research Foundation
- The Medical Research Council – UK Research and Innovation

Coschigano, Karen
- American Association of University Women’s International Fellowship Panel

Guseman, Emily
- Michigan Health Endowment

Longenecker, Randall
- Microresearch reviews for the Collaborative for Rural Primary care Research, Education, and Practice (Rural PREP)

McCall, Kelly
- NIH Reviewer

Stevens, Nancy
- National Science Foundation Division of Social and Behavioral Sciences, National Science Foundation Division of Earth Sciences, National Science Foundation Postdoctoral Fellowship Awards, National Geographic Society Committee for Research and Exploration, LSB Leakey Foundation

Williams, Susan
- National Science Foundation (Division of Behavioral and Cognitive Sciences) Austrian Science Foundation (FWF)

Witmer, Larry
- NSF

Wolf, Jackie
- NIH

**Study Sections:**

Clark, Brian
- 2017 Ad Hoc Member, Skeletal Muscle and Exercise Physiology Study Section, NIH
- 2017 Ad Hoc, University of Florida Claude D. Pepper Older Americans Independence Center Scholars Program Reviewer
- 2014-2020 Standing Member, Motor Function and Speech Rehabilitation Study Section, NIH
- 2017 Ad Hoc, NCCIH Training and Education Review Panel, NIH
- 2017 Ad Hoc, Small Business Musculoskeletal Rehabilitation Sciences, NIH
- 2017 Ad Hoc, Program Evaluation of NIH Peer Review Process: The Role of Anonymization
- 2018 Ad Hoc, SEP for U01 (RFA-AG-18-019) Study Section Panel on “Enhancing Central Neural Control of Mobility in Aging”, NIH

Grijalva, Mario
- NIH – Vector Biology Study Section

McCall, Kelly
- SBIR/STTR Special Emphasis Panel, Endocrinology, Metabolism, Nutrition and Reproductive Sciences (most recently reviewed June 2018 and will likely review again in November 2018)

**Nunemaker, Craig**
- R13 NIH Conference Grant Applications (ZDK1 GRB-7 (M1) 1).
- NIH, Special Emphasis Panel/Scientific Review Group 2017/10 ZRG1 DKUS-H.
- NIH, ZDK1 GRB-2 (O1), Fellowships in Diabetes, Endocrinology and Metabolism.

**Williams, Susan**
- Ad hoc panel member Oral, Dental, and Craniofacial Sciences Study Section, NIH

**Expert Reviewer:**
**Berryman, Darlene**
- 2018-present : Danish Diabetes Academy Committee for Talent Development, Danish Diabetes Academy, Odense, Denmark

**Beverly, Elizabeth**
- Review Panel Member, Journal of Pyschosocial Nursing and Mental Health

**Clark, Brian**
- 2018 REGN 1033-2466 Combo Skeletal Muscle Mass Augmentation Round Table, Regeneron Pharmaceuticals
- 2018 Expert Panel Member, Sarcopenia Definitions and Outcomes Consortium

**Franz, Berkeley**
- Abstract Reviewer, American Public Health Association Annual Meeting, Medical Care Section.
- Abstract Reviewer, American Public Health Association Annual Meeting.

**Guseman, Emily**
- Pediatric Exercise Science
- European Journal of Pediatrics
- Biological Research for Nursing

**Kerr, Anna**
- 2018 Paper Reviewer, National Communication Association, Health Communication Division
- 2018 Judge, Ohio Osteopathic Symposium Competitive Poster Session
- 2018 Chair, Kentucky Conference on Health Communication Research Panel
- 2018 Abstract Reviewer, Kentucky Conference on Health Communication
- 2018 Ad Hoc Reviewer, Health Communication
- 2017 Ad Hoc Reviewer, Health Communication
- 2017 Ad Hoc Reviewer, Journal of Pediatric Nursing

**Lee, Kevin**
- Ad hoc reviewer to: Journal of Diabetes Research; Journal of Experimental Biology; Life Sciences: Physiological Genomics

**Lo, Chunmin**
- Biochemical and Biophysical Research Communications Oncotarget

**McCall, Kelly**
- Reviewer for the *Journal of Immunology*
- Reviewer for the *Journal of Oncology*
- Reviewer for the *International Journal of Nanomedicine*
- Reviewer for the *Journal of Inflammation Research*
- Reviewer for the *International Journal of Molecular Sciences*
- Reviewer for *Life Sciences*
- Reviewer for *Cancer Research*
- Reviewer for *Diabetes*
- Reviewer for *Cell Communication and Signaling*
• Reviewer for *British Medical Journal (BMJ)*
• Reviewer for *Cell Biochemistry & Biophysics*
• Reviewer for *Molecular Biology Reports*
• Reviewer for *Combinatorial Chemistry & High Throughput Screening*

**Nottingham, Kelly**

• NAPCRG 2018 Annual Conference – Abstract Reviewer (2018)
• Patient Centered Outcomes Research Translation Center (PCOR-TC) Content Reviewer (2017-Present)

**Nowak, Felicia**


**O’Connor, Pat**

• National Science Foundation Panel-Graduate Research Fellowship Program, January 2018.

**Skinner, Daniel**

• BMC Medical Education
• Politics, Groups, and Identities
• J. Health Care for the Poor and Underserved
• J. American Osteopathic Association
• Arts and Humanities in Higher Education
• J. Health Politics, Policy, and Law
• Women’s Studies Quarterly
• Int’l J. of Health Policy and Management
• Critical Public Health
• Medical Anthropology Quarterly
• New Political Science
• Gender & Politics
• The Review of Politics
• J. of Communication Inquiry
• Pearson (textbook)

**Stevens, Nancy**

• Panelist: National Science Foundation Postdoctoral Fellowship Awards

**Williams, Susan**

• Dysphagia (2)
• Journal of Experimental Biology (3)
• Journal of Experimental Zoology (2)
• American Journal of Physical Anthropology (1)
• Journal of Neurophysiology (1)
• Journal of Anatomy (1)
• Anatomical Record (2)
• Brain Behavior and Evolution (1) [does not include reviews of revised papers]

**Wolf, Jackie**

• Chair of NIH review panel for National Library of Medicine Scholarly Works in Biomedicine and Health Grant, July 2017
APPENDIX I: FY2018 Heritage College Student Trainee and Post-Doctoral Trainee Information

Berryman, Darlene

- Elizabeth Jensen, DO/PhD, Translational Biomedical Sciences, HCOM fellowship
  - Jensen E (Berryman, Advisor) (2017) Analysis of Gut Function and Microbiota in Bovine Growth Hormone Transgenic Mice as a Model of Gut Dysbiosis and Intestinal Disease, Kopchick MCB/TBS Graduate Support Fund, $10,000
- Caitlin Parker, MS, Nutritional Sciences, AHSW stipend
- Kaitlin Denison, MS, Nutritional Sciences, no funding (graduated Fall 2017; had left the university and came back to defend; was funded by AHSW stipend when in Athens)
- Claire Phillips, MS, Nutritional Sciences, (Student has left the university; finishing up her writing and plans to defend Summer of 2018; was funded by AHSW stipend when in Athens)
- Laycie Ball, BS, Undergraduate Honors student dietetics; funded by PACE
- Sarah Beach, BS, undergraduate Honors student, no funding
- Zachary Jackson, OMSI, RSAF
- Delane Geitgey, Undergraduate HTC Biological Sciences, PACE and HTC Summer apprenticeship
- Cody Wilson, Undergraduate Biological Sciences, Diabetes Amvets
- Josch Busken, Undergraduate Exercise Physiology, Diabetes Institute
  - Busken J (Berryman, Advisor) (2017) Kopchick MCB/TBS Undergraduate Support Fund, $1500
- Maya Sattler, Undergraduate HTC chemistry, PACE
- Jaycie Kuhn, Undergraduate Biological Sciences, PACE

Beverly, Elizabeth

- Sophia Mort, DO/PhD, Ohio University Heritage College of Osteopathic Medicine, TBS
- Nedyalko Ivanov, OMS IV, Ohio University Heritage College of Osteopathic Medicine, No source of support
- Kayla Prokopakis, OMS IV, Ohio University Heritage College of Osteopathic Medicine, No source of support
- Kristen Cuevas, OMS III, Ohio University Heritage College of Osteopathic Medicine, No source of support
- Sydney Cryder, OMS IV, Ohio University Heritage College of Osteopathic Medicine, No source of support
- Aili Swan, OMS III, Ohio University Heritage College of Osteopathic Medicine, No source of support
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- Kyra Stepney, OMS III, Ohio University Heritage College of Osteopathic Medicine, No source of support

- Armika Tatum, OMS III, Ohio University Heritage College of Osteopathic Medicine, No source of support

- Alicia Rodgers, OMS II, Ohio University Heritage College of Osteopathic Medicine, No source of support

Chen, Xiaozhuo

- Yanyang Cao (BIOS student supported by MCB)
  - Yanyang Cao, Maria Evers, Xuan Wang, Xiaozhuo Chen. Extracellular ATP induces EMT and metastatic activities in non-small lung cancer cells. American Association of Cancer Research (AACR) Annual Meeting, Chicago, Illinois USA, April 14-18, 2018

- Pratik Shriwas (BIOS student supported by MCB)
  - Ren, Yulin; Chen, Wei-Lun; Lantvit, Daniel; Sass, Ellen; Shriwas, Pratik; Ninh, Tran Ngoc; Chai, Heebbyung; Zhang, Xiaoli; Soejarto, Djaja; Chen, Xiaozhuo; Lucas, David; Swanson, Steven; Burdette, Joanna; Kinghorn, A. Douglas. Cardiac Glycoside Constituents of Streblus asper with Potential Antineoplastic Activity. Journal of Natural Products. (2017). 80:648-658. (Ren YL the first author, my former postdoctoral fellow, Pratik Shriwas, my current PhD student)

- David Cottrill (BIOS student supported by Translational Research)

- Haiyun Zhang (BIOS student supported by MCB)

- Jingwen Song (BIOS student supported by MCB)

- Dr. Xuan Wang (Bios student supported by the MCB program)
  - Wang X, Li Y, Qian Y, Cao Y, Shriwas P, Zhang H, Chen X. Extracellular ATP, as an energy and phosphorylating molecule, induces different types of drug resistances in cancer cells through ATP internalization and intracellular ATP level increase. Oncotarget. 2017 September 23;8:87860-87877. doi: 10.18632/oncotarget.21231. Corresponding author, impact factor: 5.168 (Wang X, my former graduate student who just completed her PhD study in 2017; Qian Y, my former postdoctoral fellow; Cao, Shriwas, Zhang H are my current PhD students in the lab)

- Maria Evers (from HTC)

- Greg Ceja (from Chemistry)

- Hailey Borrasca (from public Health)

- Qiming Zhao, Undergraduate student from the Captial Normal University, the OU MCB-CNU student training program, from the Capital Normal University, supported by the Chinese government and MCB

Clark, Brian

- Dallin Tavoain, PhD Student (3rd year, TBS program). OHF Fellowship

- Nathan Wages, PhD, Post-Doctoral Fellow. Funded off NIH grants
• Nate Wages: Oral abstract talk at the International Conference for Frailty and Sarcopenia Research in March 2018. Miami, FL
• Nate Wages: Poster abstract at the World Congress of Biomechanics in July 2018. Dublin, Ireland.
• Kwasi Ampomah, Med Student. Support: N/A
• Simon Moskowitz, Undegrad, HTC fellowship

Consitt, Leslie
• Eric Weir, Undergraduate Junior, College of Health Sciences and Professions, PACE
• Courtney Dudley, Undergraduate Sophomore, College of Arts and Sciences, Biological Sciences Major, Research Volunteer

Coschigano, Karen
• Debra Walter, graduate
  • Debra Walter, Rosemary Oaks, Ramiro Malgor, Frank Schwartz, Kelly McCall, Karen Coschigano. Implications of Short Term Coxsackievirus Infection in Non-Obese Diabetic Mouse Kidneys. Submitted for presentation at the American Society of Nephrology’s 2017 annual meeting in New Orleans in November.
  • Debra Walter, two first place poster presentation awards at the Ohio University Research and Creative Activities EXPO, April, 2017
• Avery Bogart, undergraduate
• Emma Chubb, undergraduate

Franz, Berkeley
• Program to Aid Career Exploration mentor- Madeleine Shtrahman- Undergraduate
• Honors Tutorial College Research Apprenticeship mentor- Jessica Roth- Undergraduate
• Research and Scholarly Advancement Fellow co-mentor- Michael Wright- OMS-II
• Research and Scholarly Advancement Fellow co-mentor- Rachel Kamat- OMS-II

Grijalva, Mario
• Patricia Mora, Graduate, Translational Biomedical Sciences, Development of a tool to evaluate knowledge of Chagas in the adolescent population in the communities in the South of Ecuador. Ohio University.
• Maria Jose Carrasco, Graduate, International Development Studies, Weaving a Meaningful Place. A Participatory Evaluation of a Community Center in Southern Ecuador. Ohio University,
• Cristina Valderrama, Graduate, Communication and Development, Characterization of Communications Networks in Natural Disasters: A Case Study of the Earthquake in Bahia de Caraquez, Ecuador in 2016, Ohio University,
• Anthony Brusnahan, Medical Student, Interrelationship between Occupational and Physical Wellness, Poverty, and Neglected Tropical Disease. Ohio University

Guseman, Emily
• Jonathon Whipps, MS, Graduate Student, Translational Biomedical Sciences program, supported by startup funds
  • Whipps J†, Byra M, Gerow KG, Guseman EH. Evaluation of nighttime media use and sleep patterns in first-year students. Am J Health Behav. 2018 May 1;42(3):47-55. doi: 10.5993/AJHB.42.3.5.

Haile, Zelalem
• Research Mentor, Lindsey Snider (OMS-II). RSAF.
  • Project: Relationship between care givers emotional and mental health and child’s flourishing behavior.
• Research Mentor, John Allen (OMS-II).
  • Project: The influence of having access to regular source of care on utilization of sunscreen in the United States.
• Research Mentor, Tamara Mahmoud (OMS-II).
  o Project: Association between Acculturation and Hyperuricemia in the United States.
• Research Mentor, Ashley Cremona-Simmons (OMS-III), Third Year Research Rotation.
  o Project: Association between Pregnancy Intention and Gestational Weight Gain.
• Research Mentor, Shenali Wickramanayake (OMS-III), Third Year Research Rotation.
  o Project: Racial/Ethnic Differences in Receipt of Domestic Violence Counselling During Prenatal Care

Kopchick, John
• Jonathan Young 2012 – Present – Graduate Student
• Alison Brittain 2013 – Present – Graduate Student
• Kevin Funk 2014 – Present – Graduate Student
• Silvana Duran 2014 – Present – Graduate Student
• Ocema Karam 2016 – Present – Graduate Student
• Colin Kruse 2017 – Present – Graduate Student
• Reeto Basu 2016 – Present – Post Doc
• Cody Wilson 2014 – Present (Amvets) – Undergraduate Student
• Patrick Ruz 2015 – Present (Amvets) – Undergraduate Student
• Nick Madama-Baumgaertel 2016-Present (PACE) – Undergraduate Student
• Samuel Mathes 2016-Present (Amvets) – Undergraduate Student
• Gabrielle Tharp 2016-Present (HTCF Summer Intern) – Undergraduate Student
• Joshua Bailey 2016-Present (PACE) – Undergraduate Student
• Savannah McKenna 2016-Present (PACE) – Undergraduate Student
• Nathan Arnett 2015-Present (Amvets) – Undergraduate Student
• Josh Busken 2016 – (volunteering) – Undergraduate Student
• Mark Loudner2016-Present (Amvets) – Undergraduate Student

Lee, Kevin
• Quyen Luong, Graduate Student, MCB, Ohio University, OHF Fellowship
  o Luong Q and Lee KY. “The Heterogeneity of White Adipose Tissue” Adipose Tissue, pp.35-46. DOI: 10.5772/intechopen.71377
  o Wilms’ Tumor 1 (Wt1)-derived Adipocytes are Associated with Adipose Tissue Inflammation. Quyen Luong (presenter). Poster Presentation. November 2017. Appalachian Regional Cell Conference. Ohio University, Athens. OH
  o Second Place, Poster Presentation, Appalachian Regional Cell Conference. To Quyen Luong (Graduate Student), Ohio University. November, 2017
  o First Place, Poster Presentation, Ohio University Expo. To Quyen Luong (Graduate Student) Ohio University. April 2018.
  o John J. Kopchick Fellowship Award to Quyen Luong. “Determining the Spatial Distribution of Adipocyte Subpopulations”. 2017-18. Award total: $15,000
• Lauren Guest, Undergraduate, Biological Sciences, Ohio University, PACE
• Mitchell Harberson, Undergraduate, Biological Sciences, Ohio University, John J Kopchick Fellowship
Second Place, Poster Presentation, Ohio University Expo. To Mitchell Harberson (Undergraduate Student) Ohio University. April 2018.


Andrew Colborn, Undergraduate, Biological Sciences, Ohio University. PIGrant Funding

Brian Harper, Undergraduate, Biological Sciences, Work Study/American Diabetes Association Minority Undergraduate Fellowship


Katherine Schott, Undergraduate, Biological Sciences, Ohio Universisty, PACE

Medical Student Seed Funding to Mara Leyendecker. Office of Research and Grants, OU-HCOM. 2018-19. Award total: $3000

Mara Leyendecker, Medical Student, OU-HCOM, Work Study/Medical Student Seed Funding

Lo, Chunmin

Sydney Pence, undergraduate student, Department of Biology, Ohio University


John Kopchick Undergraduate Student support fund, November, 2017;

Fullbright award to Switzerland, April 2018;

Poster presentation first place at the Appalachian Regional cell conference 2018

Erin Binne, undergraduate student, Department of Biology, Ohio University

Zachary Larussa, undergraduate student, Department of Biology, Ohio University

Jace Fish, undergraduate student, Department of Biochemistry, Ohio University

Zhijun Shen, Post Doc, Department of Biomedical Sciences, Ohio University

McCall, Kelly

Sarah Benner, PhD Candidate, MCB Program/College of Arts & Sciences

Agency- Ohio University John J. Kopchick Molecular and Cellular Biology (MCB)/Translational Biomedical Sciences (TBS) Research Fellowship Award, Award Period – November 2016- December 31, 2017, Title – Inflammatory profile in the pancreas of NOD and TLR3 knockout NOD mice before and after Coxsackievirus B4 infection, Award Amount - $15,000, Investigators – S. Benner (PI), K. McCall, Role – Faculty Research Mentor

Ashley Patton, DO/PhD Student, HCOM & MCB Program/College of Arts & Sciences

Agency- Ohio University John J. Kopchick Molecular and Cellular Biology (MCB)/Translational Biomedical Sciences (TBS) Research Fellowship Award, Award Period – September 28, 2017- September 27, 2018, Title – Interferon Regulatory Factor 3 (IRF3): A potential link between inflammation and lipid metabolism in a model of high fat diet-induced nonalcoholic fatty liver disease, Award Amount - $15,000, Investigators – A. Patton (PI), K. McCall, Role – Faculty Research Mentor

Samantha Shaw, PhD Student, MCB Program/College of Arts & Sciences

Debra Walter, PhD Candidate, MCB Program/College of Arts & Sciences

Debra Walter won 1st place in the BioSci-G3 category at the Ohio University Student Research & Creative Activity Expo, April, 2018 for her presentation entitled, “Coxsackievirus Infection and Type 1 Diabetes in Non-Obese Diabetic Mouse Kidneys”.

Debra Walter won 1st place in the Diabetes Institute category at the Ohio University Student Research & Creative Activity Expo, April, 2018 for her presentation entitled, “Coxsackievirus Infection and Type 1 Diabetes in Non-Obese Diabetic Mouse Kidneys”.

Molly Carrier, Undergraduate Honor’s Tutorial College

Brennan Uhrig, DO Student, HCOM
Matthew Colpo, Undergraduate, Honors tutorial college, support from The Endocrine Society Summer Undergraduate Research Fellowship
- Matthew Colpo received a Summer Undergraduate Research Fellowship from The Endocrine Society for Summer, 2018, for his proposal titled “Establishment of a Null Mouse Model for Arhgap39/Porf-2, a Potential Mediator of Diabetes-related Cognitive Dysfunction”.

Ghadir Sindi, MS, PhD candidate, BMS/BIOS, support from the Kingdom of Saudi Arabia

Xinhao Liu, PhD candidate, MCB Program, support from MCB, SEA

Nunemaker, Craig
- Ishrat Jahan, postdoctoral fellow, OU-HCOM, support by PI.

William Koch, DO/PhD student, TBS, OU-HCOM, supported by TBS.

Lindor Gelin, medical student
  - Lindor Gelin, presenter, “Metformin inhibits islet insulin secretion and disrupts intracellular calcium in a dose-dependent and duration-dependent manner near the therapeutic range.” Appalachian Regional Cell Conference, Ohio University, December 2, 2017. Placed 2nd in poster competition.

Jiewen Li1, medical student, 2017

Daniel Rochester, medical student, 2018

Hannah West (PACE)

Cara Schildmeyer (volunteer)

Emma Zgonc (volunteer)

Emily Herrberg (PACE)

O’Connor, Pat
- Waymon Holloway, Ph.D. Candidate, Department of Biological Sciences, OHF Fellow (from the first round of the OHF supported graduate studentships), 5th year student, defense scheduled for 17 August 2018 (has accepted at teaching postdoc at the SUNY Stony Brook Medical School to begin at the end of August 2018).

Samuel Guthertz, Ph.D. student, Department of Biological Sciences, partial funding through O’Connor NSF RA buyouts (one semester in 2017/18 and one semester in 2018/19) and partial funding through BMS graduate student teaching assistantship in anatomy/neuroscience, 2nd year student.

Eric Lund, Ph.D. student, Ohio University Individualized Interdisciplinary Program (Biology and Geology). Part-time student/part-time laboratory technician (NSF Funded).

Cory Barresi, OU PACE Student. 2016-2018. Role in lab: working in fossil preparation laboratory: mechanical preparation of fossil collected as part of three different NSF grants (TZ, TZ, and Madagascar).

James Fox, OU Undergraduate student. 2017/18. Role in lab: working in fossil preparation laboratory: mechanical preparation of fossil collected as part of three different NSF grants (Antarctica, Tanzania, and Madagascar Projects). Salary paid by PMO NSF (Tanzania and Antarctica NSF grants).

Rubin, Sarah
MacKenzie Reece, OMS-1, RSAF Fellow, OUHCOM Seed grant

Danielle Thornsberry, OUHCOM PCA fellow, unfunded

Crystal Pristell, OMS-I; Penina Gross-Richmond, OMS-I, RSAF fellows, OURC grant

Emmanuel Akpan OMS-1, OU+REACH Program

Jessica Roth, Undergraduate, Honors Tutorial College Research Apprenticeship

Madeleine Shtrahman, Undergraduate, Program to Aid Career Exploration

Dr. Matthew R. Borths, Postdoc, National Science Foundation Postdoctoral Award
  - Over the past year, Dr. Borths has given a number of invited lectures at Duke University Evolutionary Anthropology Department, Harvard University Museum of Comparative Zoology, University of Southern California Department of Integrative Anatomy, SUNY-Oswego Department of Biology, COSI outreach, and a jointly-delivered OU Science Café with PI Stevens.
  - Following his postdoc in my lab, Matthew has been offered a permanent position at Duke University as Director of Fossil Primates Collection, beginning in September 2018.

Ms. Karie Whitman, Lab Manager, GVS project coordination support
  - Following her lab manager position in my lab, Karie has been awarded a Fulbright to continue her research on food security and public health in Madagascar, beginning in October 2018.

Rachel Olson, PhD Student, BIOS, Funding: BMS/NSF

Jasmine Croghan, PhD Student BIOS, Funding: BMS


  - Catherine Early: NSF Graduate Research Internship Program (GRIP) Award

James P. Nassif, Doctoral student. 2015 – present. “Evolution of the middle ear and peripheral hearing mechanism in dinosaurs and their extant relatives.”
  - James Nassif: NSF Graduate Research Fellowship Program (GRFP) Award
  - James Nassif: NSF Graduate Research Internship Program (GRIP) Award

Arianna Delgadillo, Undergraduate Scholar, Colorado State University, National Science Foundation Research Experience for Undergraduates

Kayla Burd, Undergraduate Scholar, Florida Atlantic University, National Science Foundation Research Experience for Undergraduates
Appendix J: FY2018 Heritage College Research-Related Service

Research Related Advisory Boards/Councils/Board of Directors:

**Beverly, Elizabeth**
- Chair Diabetes Special Interest Group at Society of Behavioral Medicine, 2017-present

**Chen, Xiaozhuo**
  - Inventors: Xiaozhuo Chen and Stephen Bergmeier, Issuance date: June 19, 2018

**Clark, Brian**
- 2018 Expert Panel Member, Sarcopenia Definitions and Outcomes Consortium
- CFSR Task Force on Drug and Nutrition Trials for Frailty and Sarcopenia Managing Sarcopenia.

**Drozek, David**
- Member of the Advisory Board of a Patient Centered Outcomes Research Institute (PCORI) Cardiovascular Disease Research Agenda Project for the Central Appalachian region, January 2018 to present.
- Member of Inaugural Advisory Panel of the American College of Lifestyle Medicine, Lifestyle Medicine Economic Research Consortium, October 6, 2017 to present.

**Duan, Wei-Ming**
- Member of International Advisory Committee of 15th International Symposium on Neural Transplantation and Restoration

**Forster, Lisa**
- 2018 Angeles Doc “Best Long Documentary” for The Veterans’ Project
- 2018 Columbus International Film & Animation Festival
- 2018 BEA Festival of Media Arts “Best of Competition” faculty long-form documentary
- 2017 Academy of Interactive and Visual Arts Award of Distinction, Integrated Campaign
- Student(s): Matthew Rasch OMS III, Alisha Cope OMS III, Alexander Merk OMS II, Emily Nelson OMS II, Alexander Hoerig OMS II, Robert Patterson OMS II, Aaron Stover OMS III Project: A national survey on health professionals’ knowledge and attitudes about service dogs Principal investigator: Fredricks Role: Support development of protocol, survey, IRB, and implementation of project Outcome: ongoing project
- Student: August Runyon OMS II Project: An examination of first and second year medical students’ perspective on social media use and previous training regarding e-professionalism Principal investigator: Shaub Role: Support development of protocol, survey, IRB and implementation of project Outcome: ongoing project Student(s): Braden Crouse OMS II, Raymond Vaio OMS III Project: Injuries and concussions among roller derby athletes and their pain management practices Principal investigator: Law Role: Support development of protocol, survey, IRB and implementation of project Outcome: ongoing project
- Student: Tiffany Downs OMS II Project: Student perspectives on the effects of the Heritage College’s postbaccalaureate program on their first year of medical school Principal investigator: Roche Role: Support development of protocol, interview guide, IRB and implementation of project Outcome: ongoing project
- Student: Ryan Schropp Project: Medical podcasts: a survey examining content creation practices from a professional and ethical framework Principal investigator: Fredricks Role: Support development of protocol, survey, IRB and implementation of project Outcome: ongoing project
- Student: Mara Leyendecker Project: Rotations: a medical student autoethnography about the intersection of journalism ethics and the osteopathic core competencies Principal investigator: Fredricks Role: Support development of protocol and implementation of project Outcome: ongoing project
- Student(s): Michael Hudock, OMS-II & Paige Lewis, Undergraduate/Pre-Med Project: Evaluating Osteopathic Manipulative Medicine Outpatient Clinics, 2017-Present Principal investigator: Law Role: Support developing protocol, survey, and implementation of the project Outcome: Ongoing project with expectations to add locations Project Period: 2017-Present
- Student(s): Mitchell D’Aloia OMS III, Nick Pochedly OMS II Project: Identifying Barriers and opportunities to transform health care for gender minorities Principal investigator: Thomas Role: Support developing
protocol, survey, IRB and implementation of research. Outcome: ongoing; obtained funding from Rural Prep Microgrants Project. Period: 2017-Present

**Franz, Berkeley**

- 2017: Faculty Judge, Heritage College of Osteopathic Medicine – College of Health Sciences and Professions Student Research Fair
- 2017: Faculty Judge, Ohio University Global Health Case Competition

**Grijalva, Mario**

- Director, Ecuador Field Research and Service Learning (Tropical Disease Research) Summer 2018. June 14-July 2. Quito and Cariamanga, Ecuador

**Guseman, Emily**

- Board of Directors – North American Society for Pediatric Exercise Medicine Pediatric Special Interest Group Co-Chair – American College of Sports Medicine

**Kerr, Anna**

- 2017 Board Member (Invited), Social Science and Clinical Research Alliance Kentucky Conference on Health Communication / DC Health Communication Conference National Cancer Institute; Office of Behavioral and Social Sciences Research (R13CA168316)

**Kopchick, John**

- Elected to Growth Hormone Research Council (2006 - present)
- Growth Hormone Research Society Council Member (2017-2018)
- Member of 2018 Acromegaly Consensus Meeting, Prague, Czech Republic (June, 2018)
- Member of Scientific Advisory Board, Edison Biotechnology Institute, Ohio University, Athens, Ohio (2006 – present)
- Ohio Science and Engineering Roundtable Executive Committee, 1991-present

**Lo, Chunmin**

- Director of Mouse Metabolic Phenotyping core

**Longenecker, Randall**

- Rural PREP Grand Rounds, a novel interprofessional and intergenerational team-based learning event allowing synchronous participation of teams in sites across the US, available as an asynchronous TBL package to be used by any rural program
- Rural PREP Professional Development webinars, focused on the professional development of rural student researchers and their mentors
- Rural PREP research Design & Dissemination Studios, an active learning workshop implemented often as a preconference to a national meeting of stakeholders in rural health professions education, intended to improve proposed research studies, interpret the results of studies in progress, and disseminate and apply completed projects
- Microresearch – Small funding amounts to medical students, resident physicians, nurse practitioner students, and physician assistant students who wish to pursue a research interest in rural health or health professions education, providing peer support and mentoring and engaging rural communities in research and training.

**Murphy, Erin**

- Local co-organizer (along with Peter Coschigano) of the Annual Ohio Branch American Society for Microbiology Meeting, Athens, OH – April, 2018
- Co-organizer of the Annual Wind River Conference on Prokaryotic Biology (International Meeting with 200 attendees), Estes Park CO – June, 2018
- Secretary/Treasurer – Ohio Branch American Society of Microbiology
- Executive Board Member – Ohio Branch American Society of Microbiology

**Nottingham, Kelly**

- Co-director, Front Porch Project (2015-Present)
- North American Primary Care Research Group (NAPCRG) member (2014-Present)
- North American Primary Care Research Group (NAPCRG) Communications Committee Member (2015-Present)
- Appalachian Translational Research Network (ATRN) Leadership Committee (2015-Present)
• Diabetes Institute at Ohio University Executive Board, Healthcare Partner representative (2015-Present)
• 2018 Angeles Doc “Best Long Documentary” for The Veterans’ Project
• 2018 Columbus International Film & Animation Festival
• 2018 BEA Festival of Media Arts “Best of Competition” faculty long-form documentary
• 2017 Academy of Interactive and Visual Arts Award of Distinction, Integrated Campaign
• Student(s): Michael Hudock, OMS-II & Paige Lewis, Undergraduate/Pre-Med Project: Evaluating Osteopathic Manipulative Medicine Outpatient Clinics Principal Investigator: Law Role: Support developing protocol, survey, and implementation of the project Outcome: Initial data collection completed, planning to expand data collection sites Project Period: 2017-Present
• Student(s): Snow Adler, OMS-II Project: A comparison of the effectiveness of video and live instruction for teaching abdominal aorta screening ultrasound to medical students Principal Investigator: Fredricks Role: Support developing survey, editing of protocol, editing & guidance for abstract submission Outcome: Completed project; Submitted abstract to NAPCRG Project Period: 2017-2018
• Student(s): Nick Pochedly, OMS-I; Mitchell D’Aloia, OMS-II Project: Identifying Barriers and Opportunities to Transform Health Care for Gender Minorities Principal Investigator: Thomas Role: Support in developing protocol, survey and IRB submission. Support submitting 2 grants for funding of project. Outcome: Obtained funding from Rural Prep Microgrants ($4000) and initiating project to start data collection in mid-August Project Period: 2017 – Present
• Student(s): Taylor Woodyard, Undergraduate Project Title: Food insecurity impact on birth weight among high-risk pregnant women Principal Investigator: Thomas Role: Support in developing protocol, data collection tool, connecting with family navigator program, and IRB submission. Outcome: Data collection completed and study is in data analysis phase Project period: 2017-Present
• Student(s): Matthew Ferry, OMS-II Project title: Describing Osteopathic Manipulative Medicine Inpatient Consults Principal Investigator: Eland Role: Support in developing protocol, data collection tool and OU and Ohio Health IRB submission. Managed IRB submission and communication. Served as primary contact and support for data extraction from Ohio Health. Outcome: NAPCRG Student Poster Presentation (Nov. 2017); data collection complete and currently cleaning data in order to move into data analysis phase Project Period: 2017-Present
• Student(s): Destiny Jamison, OMS-IV (PCA) Project Title: A Case of Posterior Thoracic Meningocele in a 38 week Newborn Principal Investigator: Rutter (Mentor) Role: Edited abstract for submission to pediatric conference Outcome: Poster presentation and was awarded for case study Project Period: 2018
• Student(s): Destiny Jamison, OMS-IV (PCA) Project Title: A Participatory Photovoice Study Exploring Girlhood in Rural Appalachia Principal Investigator: Casapulla (Mentor) Role: Edited abstract for submission for a conference Outcome: Poster presentation Project Period: 2018
• Student(s): Anthony Brusnahan, OMS-II Project Title: Interrelationship between Work and Wellness in Loja, Ecuador Principal Investigator: Roche/Grijalva (Mentor) Role: Served as second qualitative data analyst and contributing to manuscript development and writing Outcome: NAPCRG Student Poster Presentation (Nov 2017); manuscript in development Project Period: 2017 to Present
• Student(s): Maggie Dade, OMS-III Project Title: Health Providers Knowledge, Attitudes, Barriers and Norms to Placement of Long Acting Reversible Contraceptives in Ohio: A Pilot Study Principal Investigator: Broecker/C. Thompson Role: Support in developing protocol and survey. Provide support in data collection and financial incentive payments. Assisted in writing manuscript Outcome: Published manuscript and abstracts submitted
• Student(s): Nicholas Racchi, OMS-II Project title: The social, cultural and economic influences on healthy food purchasing within urban Peru Principal investigator: Drozek/Graham Role: Edited abstract Outcome: Submitting abstract to NAPCRG Project period: 2018
• Student(s): Ryan Vagedes, OMS-II; Nick Racchi, OMS-II Project title: Longitudinal evaluation of co-curricular service learning to create community-engaged primary care osteopathic physicians Principal Investigator: Roche/Graham Role: Edited Abstract Outcome: Submitting abstract to NAPCRG Project period: 2018
• Student(s): Michaella Thomas, OMS-III Project title: Sustainability of housing and preventative healthcare programs for the homeless Principal investigator: Roche/Law Role: Edited abstract Outcome: Submitting abstract to NAPCRG Project period: 2018
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- Student(s): Suma Kolla, OMS-II Project title: Autism and Rural Appalachia Principal investigator: Casapulla (mentor) Role: Provided guidance and suggestions regarding recruitment & collaboration with Family Navigator program Outcome: IRB approved study Project period: 2018
- Student(s): Natalee Noche (3rd year resident, South Pointe Hospital) Project Title: Impact of Palliative Medicine curriculum in medical education Principal Investigator: Laura Shoemaker, DO (Cleveland Clinic) Role: Insight about qualitative research methods and connecting resident with Anna Kerr, PhD Outcome: Met and provided materials and connection with Dr. Kerr Project Period: 2018
- Student(s): Matthew Rasch OMS III, Alisha Cope OMS III, Alexander Merk OMS II, Emily Nelson OMS II, Alexander Hoerig OMS II, Robert Patterson OMS II, Aaron Stover OMS Project: A national survey on health professionals’ knowledge and attitudes about service dogs Principal investigator: Fredricks ROLE: Support development of protocol, survey, IRB, and implementation of project Outcome: ongoing project
- Student(s): Braden Crouse OMS II, Raymond Vaio OMS III Project: Injuries and concussions among roller derby athletes and their pain management practices Principal Investigator: Law Role: Support development of protocol, survey, IRB and implementation of project Outcome: ongoing project

Nowak, Felicia
- I received approval for a sabbatical from August 22, 2017 to May 15, 2018. During this time I attended the International Conference on Learning and Memory in Huntington Beach, CA, April 18-22.
- I also met with a behavioral neuroscientist colleague, Hewlet McFarlane, Professor of Neuroscience, at Kenyon College in Gambier, OH, regarding our collaborative project to characterize ArhGAP39/Porf-2 Null Mice.
- I successfully renewed my Physicians and Surgeons License from the State of California in September 2017. This required earning 50 Continuing Medical Education credits and cost $810.
- Established collaboration with Oliver Rando, PhD, Professor, Department of Biochemistry and Molecular Pharmacology, University of Massachusetts Medical School, Worcester, MA. Promoter Methylation Analysis of Mesenteric Adipose Tissue Differentially Expressed Genes in Offspring of High Fat Diet Fed Obese Mouse Sires. Xinhao Liu went there subsequently to complete his dissertation research.

Rubin, Sarah
- Content Expert, FirstYear Cleveland Infant Mortality Research group

Russ, Ron
- Preceptor Reward and Recognition Task Force Co-Chair, OUHCOM

Skinner, Daniel
- 2017-Present Co-facilitator, Dublin Campus Journal Club
- 2017 Judge, Review Panel for Global Health Case Competition (Global Health Initiative)
- 2017 Judge, Health Policy Poster Presentations, Osteopathic Medical Education Conference, Philadelphia, PA

Stevens, Nancy
- Executive Committee Member, Society of Vertebrate Paleontologists
- Research Affiliate, Palaeontology Division, National Museums of Kenya (MOU in place) Ongoing field research through Tanzania Commission for Science and Technology MOU signed between Ohio University and Conservation Through Public Health, Uganda

Witmer, Larry
- 2015 – present: Member, Editorial Board of MorphoMuseumM, an open-access scientific journal
• NKH (Japan), “T. rex – An Evolutionary Journey,” shoot April 2016, Air April 2017

Wymbs, Fran
• Advisory Board for Center for Intervention Research in Schools
## Appendix K: FY2018 Heritage College Technology Transfer

### Table 1 - Invention Disclosures

<table>
<thead>
<tr>
<th>Title</th>
<th>Lead Inventor</th>
<th>Inventors</th>
<th>Department(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use of recombinant human FSP27/CIDEC protein or pharmaceutical compositions comprising one or more FSP27 medicaments for the treatment of human cancers including liver, pancreas, and kidney</td>
<td>John J Kopchick</td>
<td>John J Kopchick, Reetobrata Basu, Vishva Mitra Sharma, Vishwajeet Puri</td>
<td>Edison Biotechnology Institute, OUHCOM Biomedical Sciences</td>
</tr>
<tr>
<td>A novel insulin secretagogue for the treatment of diabetes</td>
<td>Craig S Nunemaker</td>
<td>Craig S Nunemaker, Ishrat Jahan</td>
<td>OUHCOM Biomedical Sciences</td>
</tr>
<tr>
<td>Portable &amp; Wearable Sensor System for Continuous Non-invasive Monitoring of Blood Glucose Level</td>
<td>Savas Kaya</td>
<td>Savas Kaya, Soumyasanta Laha, Vishwajeet Puri</td>
<td>OUHCOM Biomedical Sciences</td>
</tr>
<tr>
<td>Use of Recombinant FSP27 (CIDEC) to Improve Angiogenesis and Insulin Resistance in Endothelial Cells to Protect Humans against Cardiovascular Disease</td>
<td>Vishwajeet Puri</td>
<td>John J Kopchick, Noyan Gokce, Shakun Karki, Vishva Mitra Sharma, Vishwajeet Puri</td>
<td>OUHCOM Biomedical Sciences</td>
</tr>
<tr>
<td>A media supplement protect islets from cell death and damage and enhance insulin secretion prior to islet transplantation.</td>
<td>Craig S Nunemaker</td>
<td>Craig S Nunemaker, Ishrat Jahan</td>
<td>OUHCOM Biomedical Sciences</td>
</tr>
<tr>
<td>Peptide-based Inhibitors of Growth Hormone Action</td>
<td>Justin M. Holub</td>
<td>John J Kopchick, Justin M. Holub, Reetobrata Basu</td>
<td>College of Arts &amp; Sciences Chemistry and Biochemistry, Edison Biotechnology Institute, OUHCOM Biomedical Sciences</td>
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</table>

### Table 2 - Patents Filed

<table>
<thead>
<tr>
<th>Status</th>
<th>Title</th>
<th>Inventors</th>
<th>Department(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filed</td>
<td>Systems and Methods for Establishing the Stiffness of a Ulna Bone Using Mechanical Response Tissue Analysis</td>
<td>Joseph Oberhauser, Lyn Bowman</td>
<td>College of Arts &amp; Sciences Biological Sciences, OUHCOM Biomedical Sciences</td>
</tr>
<tr>
<td>Published</td>
<td>Compositions and Methods for Treating Traumatized Tissues Using Zinc Chelators</td>
<td>Yang Li</td>
<td>College of Arts &amp; Sciences Biological Sciences, OUHCOM Biomedical Sciences, OUHCOM Specialty Medicine</td>
</tr>
</tbody>
</table>
### Filed

<table>
<thead>
<tr>
<th>Status</th>
<th>Title</th>
<th>Inventors</th>
<th>Department(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Filed</td>
<td>IMIDAZOLE AND THIAZOLE COMPOSITIONS FOR MODIFYING BIOLOGICAL SIGNALING</td>
<td>Crina Orac, Douglas Goetz, Frank Schwartz, Kelly McCall, Mark McMills, Stephen Bergmeier</td>
<td>College of Arts &amp; Sciences Chemistry and Biochemistry, OUHCOM Specialty Medicine, Russ College of Chemical and Biomolecular Eng</td>
</tr>
<tr>
<td>Filed</td>
<td>Methods of Treatments Cancers Using Fat Specific Protein 27 (FSP27) Compositions</td>
<td>John Kopchick, Reetobrata Basu, Vishva Sharma, Vishwajeet Puri</td>
<td>Edison Biotechnology Institute, OUHCOM Biomedical Sciences</td>
</tr>
<tr>
<td>Filed</td>
<td>Methods for Regulating Free Fatty Acid Flux using Fat Specific Protein 27 (FSP27) Compositions</td>
<td>John Kopchick, Vishva Sharma, Vishwajeet Puri</td>
<td>OUHCOM Biomedical Sciences</td>
</tr>
<tr>
<td>Filed</td>
<td>Networked dispensing device for prevention and control of prescription drug abuse</td>
<td>Aili Guo, Jianchao (Jim) Zhu, Stuart Randle, Vishwajeet Puri</td>
<td>OUHCOM Biomedical Sciences, OUHCOM Specialty Medicine, Russ College of Electric Eng and Computer Sci</td>
</tr>
<tr>
<td>Filed</td>
<td>Devices and Methods for Classifying Diabetic and Macular Degeneration</td>
<td>Frank Schwartz, H. Bryan Riley, Mehmet Celenk, Nikita Gurudath</td>
<td>OUHCOM Specialty Medicine, Russ College of Electric Eng and Computer Sci</td>
</tr>
</tbody>
</table>

### Table 3 - Issued Patents

<table>
<thead>
<tr>
<th>Patent Number</th>
<th>Title</th>
<th>Inventors</th>
<th>Department(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9,750,723</td>
<td>Prevention and Treatment of Non-Alcoholic Fatty Liver Disease</td>
<td>Douglas Goetz, Frank Schwartz, Kelly McCall, Ramiro Malgor</td>
<td>College of Arts &amp; Sciences Chemistry and Biochemistry, OUHCOM Biomedical Sciences, OUHCOM Specialty Medicine, Russ College of Chemical and Biomolecular Eng</td>
</tr>
<tr>
<td>9,948,218</td>
<td>Motion Based Identity Authentication of an Individual with a Communications Device</td>
<td>Chang Liu, Lee Hong</td>
<td>OUHCOM Biomedical Sciences, OUHCOM Specialty Medicine, Russ College Electric Eng and Computer Sci</td>
</tr>
<tr>
<td>9,921,741</td>
<td>Motion Based Identity Authentication of an Individual with a Communications Device</td>
<td>Chang Liu, Lee Hong</td>
<td>OUHCOM Biomedical Sciences, OUHCOM Specialty Medicine, Russ College of Electric Eng and Computer Sci</td>
</tr>
</tbody>
</table>
## APPENDIX L: FY 2018 Research and Scholarly Advancement Fellowship Program

### Summer 2018 – (16 faculty mentors/21 students)

<table>
<thead>
<tr>
<th>Student</th>
<th>Faculty Mentor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Duna Alkhalaileh</td>
<td>Zelalem Haile, PhD</td>
</tr>
<tr>
<td>Nisarg Bakshi</td>
<td>Todd Fredricks, DO</td>
</tr>
<tr>
<td>Jennifer Brubaker</td>
<td>Stephanie Valente, DO</td>
</tr>
<tr>
<td>Cody Criss</td>
<td>Timothy Law, DO</td>
</tr>
<tr>
<td>Drew Elson</td>
<td>David Drozek, DO</td>
</tr>
<tr>
<td>Matthew Ferry</td>
<td>David Eland, DO</td>
</tr>
<tr>
<td>Cameron Gatchett</td>
<td>Zelalem Haile, PhD</td>
</tr>
<tr>
<td>Lindor Gelin</td>
<td>Craig Nunemaker, PhD</td>
</tr>
<tr>
<td>Tyler Gerwig</td>
<td>Brian Clark, PhD</td>
</tr>
<tr>
<td>Penina Gross-Richmond</td>
<td>Sarah Rubin, PhD</td>
</tr>
<tr>
<td>Rachel Kamat</td>
<td>Berkeley Franz, PhD</td>
</tr>
<tr>
<td>Jiewen Li</td>
<td>Craig Nunemaker, PhD</td>
</tr>
<tr>
<td>Kathleen Long</td>
<td>Jen-Tzer Gau, MD, PhD</td>
</tr>
<tr>
<td>Michael Moran</td>
<td>Zelalem Haile, PhD</td>
</tr>
<tr>
<td>Scott Nichimura</td>
<td>Zelalem Haile, PhD</td>
</tr>
<tr>
<td>Brad Palocko</td>
<td>Tracy Shaub, DO and Anna Kerr, PhD</td>
</tr>
<tr>
<td>Crystal Pristell</td>
<td>Sarah Rubin, PhD</td>
</tr>
<tr>
<td>Christopher Pristell</td>
<td></td>
</tr>
<tr>
<td>Christopher Wasco</td>
<td>Brian Clark, PhD</td>
</tr>
<tr>
<td>Michael Wright</td>
<td>Berkeley Franz, PhD and Daniel Skinner, PhD</td>
</tr>
</tbody>
</table>
## APPENDIX M: FY 2018 Research and Scholarly Awards Committee Membership

<table>
<thead>
<tr>
<th>Voting Members, 2016-2017</th>
<th>Representation</th>
<th>Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kelly McCall, PhD, Chair</td>
<td>Clinical</td>
<td>2nd Term Ends 6/30/18 (A)</td>
</tr>
<tr>
<td>Aili Guo, MD, PhD</td>
<td>Clinical</td>
<td>1st Term Ends 6/30/19 (E)</td>
</tr>
<tr>
<td>Tim Law, DO</td>
<td>Clinical</td>
<td>2nd Term Ends 6/30/19 (E)</td>
</tr>
<tr>
<td>Joe Bianco, PhD</td>
<td>Non-Clinical</td>
<td>1st Term Ends 6/30/19 (E)</td>
</tr>
<tr>
<td>Jen-Tzer Gau, MD, PhD</td>
<td>Clinical</td>
<td>2nd Term Ends 6/30/19 (A)</td>
</tr>
<tr>
<td>Brian Clark, PhD</td>
<td>Non-Clinical</td>
<td>1st Term Ends 6/30/19 (E)</td>
</tr>
</tbody>
</table>

### Ex-Officio Members (Non-Voting)

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Darlene Berryman, PhD</td>
<td>Interim Associate Dean for Research and Innovation</td>
</tr>
<tr>
<td>Jessica Wingett, MA</td>
<td>Executive Director, Office of Research and Grants</td>
</tr>
<tr>
<td>TBD</td>
<td>Biostatistician</td>
</tr>
</tbody>
</table>

### Administrative Support

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jody Van Bibber</td>
<td>Interim Executive Assistant</td>
</tr>
</tbody>
</table>