Department of Pharmaceutical Sciences

2017 Annual Report*

* Report is for the 2017 calendar year
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### Short Term Goals

- **S1:** Increase faculty satisfaction regarding administrative support for research through added personnel, strengthened policies, & advocacy.
- **S2:** Revitalize the graduate curriculum by improving course content, offering development opportunities, and advancing curricular assessment.
- **S3:** Recognize individual differences in strengths, interests, and careers in part by implementing a differential workload policy and by workload recognition to maximize scholarly, instructional, and service-related goals.

### Long-Term Goals

- **L1:** Plan for and position the department for increased collaborative research.
- **L2:** Offer excellent foundational training in the pharmaceutical sciences to PharmD students by working with Pharmacy Practice, sharing in the governance and operation of this program, and achieving successful re-accreditation in 2017.
- **L3:** Position programs to earn acclaim within the university, regionally and nationally as world class training programs for high caliber graduate students, postdoctoral fellows, and other trainees.

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I. Executive Summary

The Department of Pharmaceutical Sciences is a multidisciplinary academic unit formed from the faculty of pharmacy in 1982 to advance the disciplines of medicinal chemistry, pharmacology/toxicology and pharmaceutics. The Department offers MS and Ph.D. degrees in Pharmaceutical Sciences. In addition, our Faculty provide extensive instruction in the professional Doctor of Pharmacy (PharmD) program. In 2017, the Department had 23 exceptional Faculty members and 45 productive graduate students. The Faculty have broad interests, with notable strengths in diabetes, neuroscience, cancer, environmental toxicology and infectious disease research.

Dr. George Corcoran has served as chair and chief administrative officer of the department since 1996. Additional leadership and management are provided by Directors, the faculty, and robust standing committees. Many policies critical to the operation of the Department are proscribed by collectively bargained union contracts and the Department is guided by our strategic plan and specific approved policies.

In 2017, the Faculty were highly productive. According to the American Association of Colleges of Pharmacy (AACP) 2014 Research Survey, the Department ranks 37th in NIH funding, with 63% of Faculty funded. The total number of research publications/abstracts in 2017 from our Department is greater than those of our comparator schools. In 2017, the PSC Faculty had a national presence while at the same time embracing the community through the urban mission of the University. Wayne State is one of a small handful recognized by the Carnegie Foundation as a Doctoral university with Very High Research Activity and extensive Community Engagement.

The Department’s graduate program includes degrees offered at both the Ph.D. and MS levels. The Ph.D. program in Pharmaceutical Sciences continues to be highly multi-disciplinary and all students are required to take courses in each of the three disciplines. In 2017, the Department had 23 students in our Ph.D. program funded by Departmental and Graduate School resources and mentor NIH grant support. The Department is unique among similarly ranked programs in also offering a multi-disciplinary, research-intensive, entry-level MS program. Over the past 3 years, the number of MS students in the program has ranged from 8-22. These students are consistently highly successful, and the academic quality of MS students is comparable to those entering the Ph.D. program.

The Department does not have an undergraduate program per se. The primary non-graduate teaching is conducted in the PharmD program. Our faculty coordinate courses in the PharmD program and contribute to teaching throughout the curriculum. The Department offers the Summer Undergraduate Research Fellowship (SURF) program, which provides a research-intensive program for 6-10 highly motivated students. The majority of our SURF students are from Michigan and SURF graduates have been successful in advancing to graduate or professional programs. In 2017, the department hosted 4 SURF students.
II. Who We Are and What We Do: At a Glance

Who We Are

Faculty: 51 (23 Full-Time, 1 Part-Time, 24 Adjunct, 4 Emeritus).
Staff: 4
Graduate Students: 40 (21 Ph.D. Candidates, 192 MS Candidates)
Postdoctoral Scholars: 14
Research Assistants / Associates / Scientists: 6
PharmD / SURF / Undergraduate / Intern / Volunteer / Other Researchers: 72

What We Do

Degrees Granted: 16 (5 Ph.D., 11 M.S.)
Honors / Awards: 11 (9 University, 2 College)
Professional / Scientific Leadership: 127 (66 External, 61 Internal)
Scientific Review Panels: 66 (17 NIH)
Editorial Boards: 60 (2 Editors, 3 Associates, 1 Senior, 1 Review, 1 Regional, 1 Honorary, 1 Guest, 50 Board Members)
Grants: 50 (28 Federal, 16 Foundation, 6 University/College)
Invited Presentations: 19
Publications: 109 (34 Papers, 2 Book Chapters, 4 Patents/Disclosures, 53 Abstracts)
Department Seminars: 20

III. 2017 in Review

This review attempts to capture essence of the department in 2017 through its programs, activities, accomplishments, progress, culture and life. It is organized under the framework of the Department Strategic Plan 2012-2017 short-term and long-term goals. The Chair oversees implementation of the PSC 2012-2017 Strategic Plan by champions and lead stakeholders in all areas.

Short Term Goals

1. Increase faculty satisfaction regarding administrative support for research through added personnel, strengthened policies, & advocacy.

   In the area of key personnel, the department has been able to maintain excellent administrative support thanks to the continual efforts of our staff. Key PSC staff, including the Administrative Assistant, the Departmental Secretary, and assistance from two Student Assistants, have helped our department continue to perform in a highly productive manner. A challenge however that we continue to face is high office workload, and the growing workload
associated with the maturation of four relatively recent faculty additions to our department and their growing laboratories. Competition for department time and other resources continue to expand at an unprecedented rate, and this over-demand on our staff member's time should be a real concern as we strive to expand into the future. In addition, advancement of the department research mission has also been hindered due to recurring budget cuts and intensive risk mitigation policies.

Recent roles of faculty in the department has either shifted to adapt for changes in college oversight, or helped provide constant leadership to assist the chair. Dr. Stemmler, who was appointed Associate Chair in 2016, was retitled to Director of Research for PSC. Dr. David Pitts served in his second year as PSC Director of Curriculum, and Dr. Steven Firestine continues service as the Director of the Graduate Program.

Departmental faculty have been nominated for and received a disproportionate number of awards in 2017, with Dr. Anjan Kowluru became the first University Distinguished Professor in the history of the college and one of only 19 university wide, was elected Vice President of the Academy of Scholars, and received the College Excellence in Research Faculty Award, Dr. Firestine received the Pharmacy Faculty Recognition Award in Pharmaceutical Sciences, and was awarded sabbatical leave for Fall 2017. Dr. Liu received several awards in 2017 before moving to the department from Purdue University. Dr. Commissaris received the Pharmaceutical Sciences Teacher of the Year Award, and Dr. Moszczynska received a Tuition Incentive Award.

2. Revitalize the graduate curriculum by improving course content, offering development opportunities, and advancing curricular assessment.

Changes in curriculum, suggested by the PSC Graduate Program Committee for our graduate program, were enacted in 2017, with changes associated in the seminar courses PSC7850, 7860, 7870 and 7880, and in PSC 7020. The class of 2017 PhD candidates included x department supported GRAs and xx PhD candidates on other support, for a total of 21 PhD candidates in our program; 5 of whom graduated in 2017. The department's first MD/PhD candidate also graduated in 2017. Our trainees received a large number of awards in 2017 including Ms. Suhadine Gamage and Ms. Zoha Siddiqua Congressional Hearings Best Presentation Awards, Ms. Qian Lin the College Research Forum Best Student Poster in the Basic Sciences for her outstanding work with mentor Dr. Steven Firestine, Dr. Sau Samaresh 3rd Place Postdoctoral Scholar Award and Mr. Daniel Feldman a 1st Place Doctoral Student Award at the university Graduate and Postdoctoral Research Symposium, Ms. Divyasri Damacharla the George C. Fuller Endowed Scholarship Award and Ms. Dan Luo and Ms. Dongyue Yu the 2017 Frank O. Taylor Scholarships.

The department continues to implement adjustments to our department that were suggested by the Assessment Committee in response to the Pharmaceutical Sciences Self-Study, presented it to the faculty for approval in February 2016. Internal and external evaluation team reports cited strengths including: 1. superb students who are comparable to those in nationally elite programs, 2. outstanding and growing research program driven by a well-funded faculty with productivity that meets or exceeds both comparator and aspirational schools, 3. research-intensive entry level MS program that is unique among Pharmaceutical
Sciences programs, 4. outstanding time-to-graduation (one year shorter than WSU average) as well as outstanding retention (25% above WSU and 30% above national average), 5. maintenance of program quality and growth in size despite nearly annual budget cuts, and 6. program leadership and administrative structure. Areas requiring attention or investment were 1. The number of GRAs / faculty member, 2. staff support, 3. numbers of domestic and diverse students and systematic recruiting, 4. some policies and procedures, 5. replacement of retired and departed faculty, and 6. opportunities for student teaching. The department was among the most active in the university wide BEST and ReBuild programs, extending experiences to careers outside academics. Revised formal descriptions, policies and charges were prepared for the Appointment, Awards, Budget, Faculty Search, Promotion, and Tenure committees, and the Biosafety Officer and Associate Chair.

New deadlines established for forming thesis and dissertation committees, completing written qualifying examinations, completing the prospectus and oral qualifying examinations, and transferring from MS to the PhD program and the Graduate Program Policies and Procedures were developed in 2016 and successfully implemented in the 2017 calendar year. The 17th Summer Undergraduate Research Fellowship (SURF) program was held in 2017, with 4 SURF students participating in the program.

The department appointed its first Director of Education, Dr. David Pitts, in July 2016 and Dr. Pitts continues to grow in this capacity in 2017. His responsibilities of the Director include: 1) overseeing planning for improving PhD, MS, SURF, Postdoctoral, PharmD/PhD, MD/PhD, and future curricula, 2) assisting in assessing effectiveness and outcomes of curricula, 3) advising on teaching workload, 5) coordinating faculty mentoring, and 6) serving as education liaison outside the department. He has taken a leadership role in the PharmD Research Scholars track.

3. Recognize individual differences in strengths, interests, and careers in part by implementing a differential workload policy and by workload recognition to maximize scholarly, instructional, and service-related goals.

Department faculty and the Division of Pharmacy Workload Committee implemented the new workload policy in 2013. The policy was used in 2013 and 2014, with the understanding that it was provisional and would be revised. Dr. Dutta continues to serve in the leadership role in advancing the workload committee activities in 2017.

Long-Term Goals

1. Plan for and position the department for increased collaborative research.

While internal and external collaborations involving PCS faculty have remained steady over recent years, external funding has fluctuated substantially. External funding in the 2017 calendar year of $2.46M rose slightly over $2.38M in 2017. Five faculty have 3 or more grants, with special notice going to Dr. Chen with NIH grants totaling $13 million and Dr. Kowluru grants totaling $5 million. The number of laboratories engaged in research and
training reached a historic high at 15, and all faculty roster positions (22) were filled for the first time. Most grant funding to the college comes from highly competitive NIH investigator-initiated R01 awards and other federal agencies to pharmaceutical sciences faculty. In January, Dr. Wanqing Liu joined our department from Purdue University, bringing with him a NIH/NIDDK R01 grant through 2021 for $1,912,508.

The department reinvigorated new research partnerships with KCI, Engineering, Infectious Diseases, iBio and companies. A diabetes working group involves Drs. Kowluru, Yi, Chen, Stemmler, Wang, Lau, and Monks. The department continues to support the revised Research Enhancement Plan approved presented in 2016 to increase the number and ratio of supported GRAs.

Our NIH awards are complemented by funding from the Veterans Administration, American Heart and American Diabetes foundations, and competitive internal research programs supported by Wayne State. A top goal of the department and college is to establish one or more multi-investigator grants. Areas that are existing strengths and poised for national competitiveness include diabetes / obesity / metabolic syndrome, neurosciences, cancer, infection, and drug discovery and design. The pharmacy program has taken several steps to advance this goal.

2. Offer excellent foundational training in the pharmaceutical sciences to PharmD students by working with Pharmacy Practice, sharing in the governance and operation of this program, and achieving successful re-accreditation in 2017.

Our faculty play leadership roles on the PharmD Accreditation Steering Committee and other PharmD committees including chairing the curriculum and co-chairing the admissions committees. The PharmD program was successfully reaccredited in 2016 through 2018, and based on interim reports was extended to 2023 by ACPE.

3. Position programs to earn acclaim within the university, regionally and nationally as world class training programs for high caliber graduate students, postdoctoral fellows, and other trainees.

The PhD program attracts and graduates excellent scientists. Recent PhD graduates have taken postdoctoral positions in top programs including at Harvard, MIT, CalTech, and U of M. The number of graduate students doubled over the previous two years is expected increase slightly again next year. Further growth by introducing new MS and BS programs is under consideration. This includes admitting Plan B or Plan C MS candidates. Pharmacy worked with the Registrar to create a mechanism for admitted PharmD students to earn a BS in Health Sciences with a concentration in Pharmaceutical Sciences upon completion of their P1 year and accruing at least 120 credit hours of courses work.

Other Progress:

Communication: Department faculty meetings remain at a frequency of 5-7 per year to cultivate more interaction, deliberation, and collective decision-making. A significant number
of Congratulations email are distributed to make department members aware of the successes of their colleagues.

IV. Departmental Faculty and Staff

Faculty

Hanley N. Abramson, Ph.D., Professor
Deepak K. Bhalla, Ph.D., Professor and Interim Dean of the College
Fei Chen, Ph.D., Professor
Randall L. Commissaris, Ph.D., Associate Professor
George B. Corcoran, Ph.D., Professor and Chairman
Aloke K. Dutta, Ph.D., Professor
Steven M. Firestine, Ph.D., Professor
Fusao Hirata, Ph.D., Professor
Arun K. Iyer, Ph.D., Assistant Professor
Anjan Kowluru, Ph.D., Professor and Associate Dean for External Scientific Affairs
Serrine Lau, Ph.D., Professor and Dean of EACPHS
Wanqing Liu, Ph.D., Associate Professor
Zhengping Yi, Ph.D., Professor
Hani Zaher, Ph.D., Part-Time Instructor

Adjunct Faculty

Jacob V. Aranda, Adjunct Professor, SUNY Downstate, New York
Hossam Ashour, Adjunct Assistant Professor, Pharmacy Practice
Amit Banerjee, Past Assistant Professor Research
David J.P. Bassett, Adjunct Professor, Family Medicine
Michael R. Bleavins, Adjunct Associate Professor, MI Technology & Research Institute
Kyle Burghardt, Adjunct Assistant Professor, Pharmacy Practice
Christine Davie, Adjunct Assistant Professor, Pharmacy Practice
Merlin E. Ekstrom, Adjunct Associate Professor, WSU
Peter D. Frade, Associate Professor, Fundamental and Applied Sciences
Bradford R. Hepler, Adjunct Assistant Professor, Wayne County Office of Medical Examiner
Daniel Isenschmid, Adjunct Assistant Professor, NMS Laboratories, Willow Grove, PA.
Edward Kerfoot, Adjunct Professor, Occupational and Environmental Health Sciences
Paul Kilgore, Adjunct Professor, Pharmacy Practice
Ladislau C. Kovari, Adjunct Associate Professor, Biochemistry
Robert E. Levine, Adjunct Professor, Wellness and High-Performance Strategies
Jing Li, Adjunct Associate Professor, Karmanos Cancer Institute
Emily T. Martin, Adjunct Assistant Professor, University of Michigan
Howard J. Normile, Adjunct Associate Professor, Health Care Sciences
Allen J. Rosenspire, Adjunct Associate Professor, Microbiology and Immunology
Michael J. Rybak, Adjunct Professor, Pharmacy Practice
Paul M. Stemmer, Associate Professor, Institute of Environmental Health Sciences
Bonita G. Taffe, Adjunct Assistant Professor, State of Michigan Bureau of Laboratories
David M. Thomas, Adjunct Professor, Oakland University William Beaumont School of Medicine
William D. Watt, Adjunct Professor, Occupational and Environmental Health Sciences

Emeritus Faculty
Martin Barr
Raymond J. Dauphinais
Janardan B. Nagwekar
Henry Wormser

Staff
Angela Bumphus, Secretary
Latoya Rice, Administrative Assistant
Dhanashri Pawale, Student Assistant

V. Research Personnel in Training

Pharmaceutical Sciences Ph.D. Candidates

Alsaab, Hashem: Graduate Research Assistant, Advisor Dr. Arun Iyer
Alghanem, Lana: Graduate Research Assistant, Advisor Dr. Anna Moszczynska
Alzharni, Rami: Graduate Research Assistant, Advisor Dr. Arun Iyer
Alzhrani, Majed: Graduate Research Assistant, Advisor Dr. Zhengping Yi
Bhise, Ketki: Graduate Research Assistant, Advisor Dr. Arun. Iyer
Batelu, Sharon: Graduate Research Assistant, Advisor Dr. Timothy Stemmler
Damacharla, Divyasri: Graduate Research Assistant, Advisor Dr. Zhengping Yi and Anjan Kowluru
(Graduated in 2017)
Elmabruk, Asma: Graduate Research Assistant, Advisor Dr. Alok Dutta
Gamage, Suhadinie: Graduate Research Assistant, Advisor Dr. Anjan Kowluru
Killinger, Bryan: Graduate Research Assistant, Advisor Dr. Anna Moszczynska (Graduated 2017)
Lewis, Briana: Graduate Student, Advisor Dr. Timothy Stemmler
Li, Lingzhi: Graduate Research Assistant, Advisor Dr. Fei Chen (Graduated in 2017)
Liao, Yi: Graduate Research Assistant, Advisor Dr. Zhihui Qin
Lin, Qian: Graduate Research Assistant, Advisor Dr. Steven Firestine
Luo, Dan: Graduate Research Assistant, Advisor Dr. Alok Dutta (Graduated in 2017)
Nguyen, Huong: Graduate Research Assistant, Advisor Dr. Terrence Monks
Qi, Yue: Graduate Research Assistant, Advisor Dr. Zhengping Yi (Graduated in 2017)
Sharma, Akil: Graduate Research Assistant, Advisor Dr. Anna Moszczynska
Wadgaonkar, Priya: Graduate Research Assistant, Advisor Dr. Anjan Kowluru
Zhang, Qian: Graduate Research Assistant, Advisor Dr. Fei Chen

Ph.D. Candidates outside PSC Training with PSC Faculty
Tagett, Rebecca: Ph.D. Candidate, Co-Advisor Dr. Zhengping Yi

MD / Ph.D. Candidates
Streeter, Cale: Graduate Research Assistant, Advisor Dr. Steven Firestine (Graduated in 2017)

Pharmaceutical Sciences M.S. Candidates
Alali, Kauthar: Advisor Dr. Randall Commissaris
Alla, Lakshmi: Advisor Dr. David Pitts (Graduated in 2017)
Ashok Kumar, Srinivas: Advisor Dr. Fei Chen (Graduated in 2017)
Baidwan, Sartaj: Advisor Dr. Anjan Kowluru (Graduated in 2017)
Gawde, Kaustubh: Advisor Dr. Arun Iyer (Graduated in 2017)
Monshi, Manahil: Advisor Dr. David Pitts (Graduated in 2017)
Ou, Siyu: Advisor Dr. Zhihui Qin (Graduated in 2017)
Patel, Anjali: Advisor Dr. Timothy Stemmler
Pawale, Dhanashri: Advisor Dr. Zhengping Yi (Graduated in 2017)
Ravipati, Pranay: Advisor Dr. Alok Dutta (Graduated in 2017)
Sharma, Marcella: Advisor Dr. Steven Firestine
Siddiqua, Zoha: Advisor Dr. David Pitts
Simon, Matthew: Advisor Dr. Steven Firestine
Sulaiman, Shukurat: Advisor Dr. Zhengping Yi (Graduated in 2017)
Taneja, Rimzim: Advisor Dr. Randall Commissaris
Tatiparti, Katyayani: Advisor Dr. Arun Iyer
Wang, Yihan: Advisor Dr. Jiemei Wang
Wang, Zhaoxian: Advisor Dr. Arun Iyer (Graduated in 2017)
Yu, Dongyue: Advisor Dr. Anna Moszczynska (Graduated in 2017)

Postdoctoral Scholars
Clarkston, Heather: Ph.D., Advisor Dr. Zhengping Yi
Damacharla, Divyasi: Ph.D., Advisor Dr. Anjan Kowluru/ Dr. Zhengping Yi
Das, Banibrata: Ph.D., Advisor Dr. Aloke Dutta
Dinda, Bidyut: Ph.D., Advisor Dr. Aloke Dutta
Khan, Sabbir: Ph.D., Advisor Dr. Anjan Kowluru
Li, Lingzhi: Ph.D., Advisor, Dr. Fei Chen
Mottillo, Emilio: Ph.D., Advisor Dr. Zhengping Yi
Qi, Yue: Ph.D., Advisor Dr. Zhengping Yi
Shukkur, Muhammed Farooq Abdul: Advisor Dr. Jemei Wang
Thakur, Chitra: Ph.D., Advisor Dr. Fei Chen
Thamiselvan, Vijayalakshmi: Ph.D., Advisor Dr. Anjan Kowluru
Varshney, Pallavi: Ph.D., Advisor Dr. Anjan Kowluru
Yedlapudi, Deepthi: Advisor Dr. Terrence Monks/Aloke Dutta
Zhang, Xiang: Ph.D., Advisor Dr. Jemei Wang

Research Assistants / Associates / Scientists

Ma, Yongpan: Supervisor Dr. Randall Commissaris
Mekala, Naveen Kumar: Ph.D. Research Associate, Supervisor Dr. Anjan Kowluru
Sharma, Shiv: Ph.D. Research Scientist, Supervisor Dr. Steven Firestine
Swift, Aaron: Sr. Systems Administrator, Supervisor Dr. Randall Commissaris
Xu, Liping: Ph.D., Research Technician, Supervisor Dr. Aloke Dutta
Zhang, Xiangmin: Ph.D. Research Scientist, Supervisor Dr. Dr. Zhengping Yi

PharmD / SURF / Undergraduate / Intern / Volunteer / Other Researchers

PharmD
Alkeilani, Asmaa: Advisor Dr. David Pitts
Althabte, Anas Jamal: Advisor Dr. Fei Chen
Baidun, Sonya: Advisor, Dr. Arun Iyer
Burghardt, Kyle: Advisor Dr. Zhengping Yi
Calme, Griffin Robert: Advisor Dr. Zhengping Yi
Chamaa, Dana: Advisor, Dr. Randall Commissaris
Chehab, Fatme: Advisor, Dr. Randall Commissaris
Clancey, Scott: Advisor Dr. Anjan Kowluru
Clarkston, Heather: Advisor, Dr. Randall Commissaris
Dagher, Joseph: Advisor Dr. George Corcoran
DeLor, Jeremy: Advisor Dr. Duska Separovic
Doane, Alison: Advisor, Dr. Arun Iyer
Donovan, Justine Tyler: Advisor, Dr. Arun Iyer
El-Husseini, Hadi: Advisor Dr. David Pitts
Emlaw, Brianna: Advisor, Dr. Arun Iyer
Garbo, Rawan: Advisor, Dr. Randall Commissaris
Griffin, Hannah: Advisor Dr. Anjan Kowluru
Gropcaj, Endrit: Advisor Dr. Anjan Kowluru
Haider-Ahmad, Batoul: Advisor, Dr. Randall Commissaris
Haddad, Justin: Advisor, Dr. Arun Iyer
Hana, Rand: Advisor, Dr. Arun Iyer
Hanna, Andrew: Advisor, Dr. Arun Iyer
Hijazi, Aida: Advisor, Dr. Randall Commissaris
Husseini, Alexandra: Advisor Dr. David Pitts
Jain, Ritika: Advisor Dr. Anjan Kowluru
Jamal, Suzanne: Advisor Dr. David Pitts
Jarbou, Natalia: Advisor Dr. Anjan Kowluru
Kahn, Mashal: Advisor Dr. David Pitts
Khalil, Ali: Advisor, Dr. Arun Iyer
Khan, Mashal: Advisor Dr. David Pitts
Kim, Austin: Advisor, Dr. Randall Commissari and Dr. Anjan Kowluru
Matti, Faddy Yousif: Advisor Dr. Fei Chen
McKay, Candice: Advisor, Dr. Arun Iyer
Mikhail, Sandra: Advisor Dr. Fei Chen
Muma, Alexandra: Advisor Dr. Anjan Kowluru
Nabil, Ghazal: Advisor Dr. Arun Iyer
Nasser, Husseine: Advisor, Dr. Randall Commissaris
Nofar, Thomas: Advisor Dr. Fei Chen
Neelam, Osto: Advisor, Dr. Arun Iyer
Petrovic, Alex: Advisor, Dr. Arun Iyer
Pierson, Benjamin: Advisor, Dr. Arun Iyer
Sawyer, Jessica: Advisor, Dr. Randall Commissaris
Stewart, Jessica: Advisor Dr. Anjan Kowluru
Yacoub, Rand: Advisor Dr. Anjan Kowluru
Zofchak, Kristen: Advisor Dr. Anjan Kowluru

SURF (Summer Undergraduate Research Fellow)
Ferger, Kelly: Advisor Dr. Timothy. Stemmler
Yetukuri, Amoolya: Advisor Dr. David Pitts
Annie, Nelson: Advisor Dr. Arun Iyer
St. Amour, Miranda: Advisor Dr. Timothy. Stemmler

Undergraduate
Bassett, Lukas: Undergraduate Researcher, Advisor Dr. Zhengping Yi
Buchanon, Brando: Undergraduate Researcher, Advisor Dr. Randall Commissaris
Clarkston, Amanda: Undergraduate Researcher, Advisor Dr. Zhengping Yi
Ghosh, Preetha: Undergraduate Researcher, Advisor Dr. Zhengping Yi
Issa, Fatima: Undergraduate Researcher, Advisor Dr. Zhengping Yi
Khraizat, Laila: Undergraduate Researcher, Advisor Dr. Steven Firestine
Koujane, Ayah: Undergraduate Researcher, Advisor Dr. Zhengping Yi
Maassen, Philip: Undergraduate Researcher, Advisor Dr. Fei Chen
Malone, Ki-Jana: Undergraduate Researcher, Advisor Dr. Randall Commissaris
Mason, Zachary: Undergraduate Researcher, Advisor Dr. Timothy Stemmler
Mohammad, Mohammad: Undergraduate Researcher, Advisor Dr. Randall Commissaris
Murdock, Brianna: Undergraduate Researcher, Advisor Dr. Randall Commissaris
O’Meara, Megan: Undergraduate Researcher, Advisor Dr. Jemei Wang
Parker, Jasmine: Undergraduate Researcher, Advisor Dr. David Pitts
Patros, Jennifer: Undergraduate Researcher, Advisor Dr. Steven Firestine
Rockwell, Ryan: Undergraduate Researcher, Advisor Dr. Steven Firestine
Smith, Christofer: Undergraduate Researcher, Advisor Dr. Randall Commissaris
Tiwana, Talha: Undergraduate Researcher, Advisor Dr. Fei Chen
Yacoub, Simon: Undergraduate Researcher, Advisor Dr. Zhengping Yi

Volunteer
Alghanem, Lana Jamil: Volunteer, Advisor Dr. Anna Moszczynska

Other Researchers
Ammar, Amina: Research Assistant, University of Michigan Dearborn, Supervisor Dr. Randall Commissaris
Bazylianska, Viktoria: Fulbright Research Scholar, Supervisor Dr. Anna Moszczynska
Kesamneni, Srikar: Summer High School Student, Supervisor Dr. Arun Iyer

VI. Graduate Degrees Conferred in 2017

PhD Conferred

Dr. Dan Luo:
Advisor: Dr. Alok Dutta
Thesis Title: Approach towards the development of novel disease modifying therapeutics for parkinson’s disease
Current: Postdoctoral Fellow, Wayne State University, Detroit, MI

Dr. Divyasri Damacharla:
Advisor: Dr. Anjan Kowluru/Dr. Zhengping Yi
Thesis Title: Protein phosphatase-2A in human skeletal muscle and pancreatic beta-cells in diabetes
Current: Postdoctoral Fellow, Wayne State University, Detroit, MI

Bryan Killinger:
Advisor: Dr. Anna Moszczynska
Thesis Title: Axonal Transport, Parkin, And A-Synuclein; Novel Therapeutic Targets To Treat Methamphetamine Neurotoxicity
Current: Postdoctoral Fellow, Van Andel Institute

Lingzhi Li:
Advisor: Dr. Fei Chen
Thesis Title: Underlying mechanisms of arsenic-induced tumorigenesis: from epigenetics to malignancy
Current: Postdoctoral Fellow, Beckman Institute City of Hope, CA.

Dr. Yue Qi:
Advisor: Dr. Zhengping Yi
Current: Postdoctoral Fellow, Wayne State University, Detroit, MI

MS Conferred

Dhanashri Pawale:
Advisor: Dr. Zhengping Yi
Thesis Title: Regulation of protein phosphatase 1 regulatory subunit 12 in insulin resistant human myotubes.
Current: Clinical Research Specialist, Indiana University School of Medicine and Riley Children's Hospital

Dongyue Yu:
Advisor: Dr. Anna Moszczynska
Thesis Title: The Role of Line-1 Transposable Element In Methamphetamine Neurotoxicity In The Neurogenic Zones
Current: Graduate Research Assistant, University of Maryland, Baltimore

Kaustubh Gawde:
Advisor: Dr. Arun Iyer
Thesis Title: Synergistic Combination of Di-Fluorinated Curcumin and Paclitaxel Formulated Using Folate Decorated Bovine Serum Albumin Nanocarrier For Targeting Ovarian and Cervical Cancer
Current: Formulation Scientist, KVK Tech, Pennsylvania

Lakshmi Alla:
Advisor: Dr. David Pitts
Thesis Title: An Evaluation of endocrine disrupting effects of emerging contaminants using Daphnia pulex and Danio rerio
Current: Editorial Assistant Intern at OMICS International USA, Hyderabad, India

Manahil Monshi:
Advisor: Dr. David Pitts
Thesis Title: Endocrine-Disrupting Properties of Pharmaceuticals and Personal Care Products (PPCPs): An Evaluation Using Aquatic Model Organisms.
Current: Yanbu National Hospital, Saudi Arabia
Pranay Ravipati:
Advisor: Dr. Aloke Dutta
Thesis Title: Mechanism of a Multifunctional Dopamine Agonist Against Rotenone Induced Toxicity: Implication in Parkinson's Disease Therapy
Current: Unknown

Sartaj Baidwan:
Advisor: Dr. Anjan Kowluru
Thesis Title: Metformin, glucotoxicity and islet dysfunction
Current: Attending Doctor of Pharmacy Program at Ferris State University, Big Rapids, MI

Shukurat Oluwatoyin Sulaiman:
Advisor: Dr. Zhengping Yi
Thesis Title: Protein Phosphatase 2A PP2A Function and Regulation in Human Skeletal Muscle Cells in Insulin Resistance.
Current: Clinical Research Coordinator at University of California San Diego, San Diego, CA

Siyu Ou:
Advisor: Dr. Zhihui Qin
Thesis Title: Design and Synthesis of Enzalutamide-Isothiocyanate Hybrid Drug As Anti-Prostate Cancer Agent
Current: Research Assistant, Wayne State University

Srinivas Ashok Kumar:
Advisor: Dr. Fei Chen
Thesis Title: Pathological And Prognostic Role of Mdg In Pancreatic Cancer
Current: Associate Scientist at L'Oréal, New York, NY

Zhaoxian Wang:
Advisor: Dr. Arun Iyer
Thesis Title: Redox Responsive Cerium Oxide Nanoparticles and Cd44 Targeted Nanomicelles For Selective Cancer Therapy
Current: Graduate Research Assistant, University of Kansas

VII. Honors and Awards

University

Dutta, Aloke: Outstanding Graduate Mentor, Wayne State University.
Firestone, Steven: Faculty Recognition Award in Pharmaceutical Sciences, Wayne State University
Kowluru, Anjan: Distinguished Professor, Wayne State University
Kowluru, Anjan: Engraved plaque of appreciation for service as the Secretary/Treasurer from the Metropolitan Detroit Research and Education Foundation [MDREF] Board.
Kowluru, Anjan: Outstanding Performance Rating, John D Dingell VA Medical Center, Detroit, MI
Liu, Wanqing: Chaney Scholar Award, College of Pharmacy, Purdue University
Liu, Wanqing: MCMP Research Enhancement Award, Purdue University
Liu, Wanqing: Annual Excellence in Research Awards, Purdue University
Moszczynska, Anna: Tuition Incentive Program Award

College

Commissaris, Randall: Pharmaceutical Sciences Teacher of the Year”, WSU College of Pharmacy, Class of 2017
Kowluru, Anjan: Research Excellence Award, Eugene Applebaum College of Pharmacy and Health Sciences

VIII. Professional, Scientific and Other Leadership

External to University

Chen, Fei: Member, American Association for Cancer Research
Chen, Fei: Member, Society of Toxicology
Corcoran, George: Member, Society of Toxicology
Corcoran, George: Workshop Organizer and Chair, Medical Marijuana: Issues Facing the Regulatory, Medical, and Academic Environments
Corcoran, George: Member, National Toxicology Program Board of Scientific Counselors
Corcoran, George: Board Member Representative, National Toxicology Program Report on Carcinogens: Cobalt
Corcoran, George: Member, Regulatory and Safety Evaluation Specialty Section
Corcoran, George: Member, Mechanisms Specialty Section
Commissaris, Randall: Member, American Association for the Advancement of Science
Commissaris, Randall: Member, Society for Neuroscience, National
Commissaris, Randall: Member, Society for Neuroscience, Michigan Chapter
Commissaris, Randall: Member, International Behavioral Neuroscience Society
Commissaris, Randall: Member, Rho Chi Pharmacy Society
Commissaris, Randall: Member, American Association of Colleges of Pharmacy
Commissaris, Randall: Member, New York Academy of Sciences
Commissaris, Randall: Member, Sigma Chi Scientific Society
Dutta, Aloke: Member, American Chemical Society.
Dutta, Aloke: Member, Society of Nuclear Medicine.
Dutta, Aloke: Member, Society for Neuroscience
Firestine, Steven: Member, American Chemical Society, Division of Biological Chemistry, Division of Medicinal Chemistry
Iyer, Arun: Member, Molecular Therapeutics Program, Karmanos Cancer Institute, WSU School of Medicine.
Iyer, Arun: Member, WSU-Pune University, Research Collaboration and Student Review Panel.
Iyer, Arun: Member, PhD Thesis committee, NIRMA University, Ahmedabad, India.
Iyer, Arun: Member, External P&T Committee, The University of KwaZulu-Natal, South Africa
Kowluru, Anjan: Member, Selection Committee for SFRBM 2016 Lifetime Achievement Awards
Kowluru, Anjan: Member, Selection Committee for SFRBM 2016 Fellows Selection Committee
Kowluru, Anjan: Adjunct Professor, Interdisciplinary Science and Technology Research Academy, University of Pune, Pune, India
Kowluru, Anjan: Adjunct Professor, Faculty of Health Sciences, School of Biomedical Sciences at Curtin University, Perth, Western Australia
Lau, Serrine: Member, Executive Committee, HESI
Lau, Serrine: Treasurer, HESI.
Lau, Serrine: Toxicology Forum Program Planning Committee
Lau, Serrine: Chair, Symposium “Fortuitous Protein Modification in Disease Pathogenesis and Treatment”, Division of Toxicology, ASPET, San Diego April 5, 2016.
Lau, Serrine: Member, International Life Sciences Institute (ILSI) Board of Trustees.
Lau, Serrine: Vice-President, Board of Trustees, HESI.
Liu, Wanqing: Member, American Society of Human Genetics
Liu, Wanqing: Member, American Association for Cancer Research
Liu, Wanqing: Member, American Society of Clinical Oncology
Liu, Wanqing: Member, American Association for the Study of Liver Diseases
Monks, Terrence: Professor and Chair, Department of Pharmacology and Toxicology, College of Pharmacy, University of Arizona Health Sciences Center, Tucson, AZ.
Monks, Terrence: Director, ROS and Disease Prevention Research Core, Southwest Environmental Health Sciences Center.
Monks, Terrence: Associate Dean for Research & Graduate Studies, College of Pharmacy, University of Arizona Health Sciences Center, Tucson, AZ.
Monks, Terrence: Chairman, Special Emphasis Panel (ZRG1 DKUS C 54) evaluating RO1 & R21 applications responding to PAR-14-203/204 “Environmental Contributors to Autism Spectrum Disorders”
Pitts, David: Member, American Society for Pharmacology and Experimental Therapeutics
Pitts, David: Member, International Brain Research Organization
Pitts, David: Member, International Association for Great Lakes Research
Pitts, David: Member, Neurobehavioral Teratology Society
Pitts, David: Member, Society for Neuroscience
Pitts, David: Member, Society of Toxicology
Pokorski, Philip: Member, American College of Forensic Examiners
Pokorski, Philip: Member, American Association for the Advancement of Science
Pokorski, Philip: Member, American Society of Clinical Pathologists
Pokorski, Philip: Member, Michigan Academy of Physician Assistants
Pokorski, Philip: Member, Rho Chi Pharmacy Society
Pokorski, Philip: Member, Mu Omicron Pi Chapter of Kappa Psi
Stemmler, Timothy: Member, Society for Bioinorganic Chemistry
Stemmler, Timothy: Member, American Heart Association
Stemmler, Timothy: Member, American Chemical Society
Stemmler, Timothy: Member, Friedreich’s Ataxia Research Alliance (FARA)
Wang, Jiemei: Member, American Heart Association
Wang, Jiemei: Member, Wound Healing Society
Wang, Jiemei: Member, American Society for Pharmacology and Experimental Therapeutics
Wang, Jiemei: Member, American Diabetes Association
Wang, Jiemei: Member, Rho Chi Pharmacy Honor Society
Yi, Zhengping: Member, American Diabetes Association
Yi, Zhengping: Member, American Society for Mass Spectrometry
Yi, Zhengping: Member, American Chemical Society

Internal (External to College)

Bhalla, Deepak: Joint appointments in Karmanos Cancer Institute, Wayne State University, Detroit, MI
Bhalla, Deepak: Non-voting Chair (Dean’s Representative), Promotion and Tenure Committee, College of Pharm. & Health Sci.
Bhalla, Deepak: Committee on Academic and Professional Progress for Pharmacy students, College of Pharm. & Health Sci.
Bhalla, Deepak: Health Care Sciences Faculty Search Committee, College of Pharm. & Health Sci.
Chen, Fei: Review Committee, Geological Department
Commissaris, Randall: Associate Professor, Psychiatry and Behavioral Neurosciences (Adjunct), School of Medicine, Wayne State University.
Corcoran, George: Co-Chair, WSU Chairs and Directors Development Committee.
Corcoran, George: Member, Technology Transfer and Commercialization Review Committee
Corcoran, George: Member, OVPR Research Enhancement Program Review Panel
Corcoran, George: Member, Postdoctoral Office Advisory Board
Corcoran, George: Academic Departments and Programs Review Committee
Dutta, Aloke: Member, University Advanced Patent Committee
Hirata, Fusao: Chair, WSU Radiation Safety and Radioisotope Committee.
Hirata, Fusao: Member, University Fellowship Review Committee
Iyer, Arun: Member, Molecular Imaging Program, Karmanos Cancer Institute
Iyer, Arun: Member, Molecular Therapeutics Program, Karmanos Cancer Institute
Iyer, Arun: Editorial Advisory Board Member, Current Smart Materials, Bentham Science
Iyer, Arun: Special Topics Editor, Frontiers in Pharmacology
Iyer, Arun: Mentor, AAPS WSU student Chapter
Iyer, Arun: Editorial Advisory Board Member, Current Pharmaceutical Design, Bentham Science
Iyer, Arun: Member, Summative Evaluations Committee
Iyer, Arun: Member, Health Outcome and Pharmacy Practice
Iyer, Arun: Member, PPS Facilitator
Iyer, Arun: Member, PCOA Facilitator
Kowluru, Anjan: Adjunct Professor, Institute for Environmental Health Sciences [IEHS]
Kowluru, Anjan: Professor of Internal Medicine, Division of Endocrinology and Metabolism, Wayne State School of Medicine.
Kowluru, Anjan: Associate Faculty, Department of Nutrition and Food Science
Kowluru, Anjan: Associate Faculty and Professor, Department of Surgery, Wayne State University School of Medicine
Kowluru, Anjan: Associate Faculty, Institute of Gerontology, Wayne State University
Kowluru, Anjan: Adjunct Professor, Center for Molecular Medicine and Genetics
Kowluru, Anjan: Distinguished Professor, Wayne State University
Kowluru, Anjan: Board Member, Metropolitan Detroit Research and Education Foundation [MDREF], John D. Dingell VA Medical Center, Detroit
Kowluru, Anjan: Voting Member, Detroit Research and Development Committee
Kowluru, Anjan: Voting Member, Subcommittee on Research Safety
Kowluru, Anjan: Voting Member, Institutional Biosafety Committee
Kowluru, Anjan: Member, Scientist Promotion Review Panel
Kowluru, Anjan: Voting Member, Research Review Committee
Kowluru, Anjan: Chief, Beta-Cell Biochemistry Laboratory
Kowluru, Anjan: Member, Diabetes and Obesity Team Science [DOTS] Program
Kowluru, Anjan: Acting ACOS-Research and Development, JDD VA Medical Center
Kowluru, Anjan: Research Integrity Officer, JDD VA Medical Center
Kowluru, Anjan: Secretary/Treasurer [acting], Metropolitan Detroit Research and Education Foundation [MDREF], John D. Dingell VA Medical Center, Detroit
Kowluru, Anjan: Deputy ACOS-Research
Kowluru, Anjan: Member, Outstanding Graduate Mentor Award and the Distinguished Graduate Faculty Award Selection Committee, Graduate School, Wayne State University
Kowluru, Anjan: Judge, Graduate and Post-Doctoral Research Symposium, Wayne State University
Kowluru, Anjan: Vice President [President Elect], Academy of Scholars, Wayne State University

Pitts, David: Co-Director, Urban Watershed Environmental Research Group (UWERG).
Pitts, David: Member, Healthy Urban Waters (HUW) Advisory Board
Stemmler, Timothy: Stanford Synchrotron Radiation Lightsource User’s Executive Committee, Stanford University, Palo Alto, CA
Stemmler, Timothy: Brookhaven National Laboratory/Case Western Reserve P30 Advisory Committee
Stemmler, Timothy: Faculty Mentoring Committee, Department of Chemistry, College of Charleston, Charleston, SC
Stemmler, Timothy: Asst. Dean of Grad School, Assoc. Dir of Postdoctoral Studies
Stemmler, Timothy: Director of Postdoctoral Office, WSU
Stemmler, Timothy: Associate Chair of Pharmaceutical Sciences, Wayne State University
Stemmler, Timothy: Member, University Budget Committee, Wayne State University
Stemmler, Timothy: Member, University Core’s Oversight Committee, Wayne State University
Stemmler, Timothy: Member, Masters of Public Health Advisory Committee, Wayne State University
Stemmler, Timothy: Member, Library Committee, Wayne State University
Stemmler, Timothy: Member, PhD Advisory Committee, Wayne State University
Stemmler, Timothy: Member, University Core Committee, Wayne State University
Stemmler, Timothy: Member, Research Procurements Committee, Wayne State University
Stemmler, Timothy: Member, Research Grant Review Committee, Wayne State University

IX. Scientific Review Panels

Bhalla, Deepak: Member, National Research Council Committee on Toxicology
Chen, Fei: External Assessor of Research Grants Council of Hong Kong
Chen, Fei: Reviewer, the Israel Science Foundation
Chen, Fei: Reviewer, National Medical Research Council of Singapore
Chen, Fei: Reviewer, Italian Ministry of Health in association with NIH
Chen, Fei: Reviewer, NIH ZCA1 SRB-5 (O2) S NCI Clinical and Translational R21 and Omnibus R03: SEP-5, Bethesda, MD
Chen, Fei: NIH ZES1 LAT-D (K2) 1 SEP for K01, K02, K08, K23, NIEHS, Research Triangle Park, NC
Chen, Fei: NIH SIEE Study Section, Ad Hoc
Chen, Fei: NIH ZES1 LAT-S (K8), NIEHS Special Emphasis Panel
Chen, Fei: DoD 2017 CDMRP PRMRP Focused Program – Metals Toxicology
Commissaris, Randall: Member Addiction Research Institute of Michigan.
Commissaris, Randall: American Society for Pharmacology and Therapeutics (ASPET)
Dutta, Aloke: Ad hoc member of NIH ZRG1 MDCN-C (94) “Drug Discovery for the Nervous System
Dutta, Aloke: Ad hoc committee member of NIH DDNS “Drug Discovery for the Nervous System” Reviewer of research proposals, Parkinson’s UK Foundation
Dutta, Aloke: Ad hoc committee member of NIH ZRG1BCMB-G (50) “Chemical Discovery for Substance Use Disorders”
Dutta, Aloke: Ad hoc committee member of NIH ETTN-D Special Emphasis Panel
Firestine, Steven: Grant Reviewer, National Institutes of Health, MSFA
Firestine, Steven: Grant Reviewer, National Institutes of Health, ZRG1 IDM-X(10)B.
Firestine, Steven: Chair, National Institutes of Health
Hirata, Fusao: Member, National Foundation of Sciences (USA) Scientific Council.
Hirata, Fusao: National Institutes of Health, Ad hoc Reviewer.
Hirata, Fusao: Member, Neurological Sciences, NIH Study Section 1988
Hirata, Fusao: Member, Veterans Administration, Medical Sciences
Iyer, Arun: Grant Reviewer, Cancer Research UK
Iyer, Arun: Grant Reviewer, Health Research Council of New Zealand
Iyer, Arun: Grant Reviewer, University of Missouri Research Board
Iyer, Arun: Member, American Association of Pharmaceutical Scientists (AAPS)
Iyer, Arun: Member, American Chemical Society (ACS)
Iyer, Arun: Member, American Association of Colleges of Pharmacy (AACP)
Iyer, Arun: Member, Society of Nuclear Medicine (SNM)
Iyer, Arun: Member, The Controlled Release Society (CRS)
Iyer, Arun: Member, Japanese Society of Drug Delivery System (DDS)
Iyer, Arun: Member, Society of Polymer Science, Japan (SPSJ)
Iyer, Arun: Member, Society of Polymer Science, India (SPSI)
Iyer, Arun: Member, Society of Molecular Imprinting, Sweden (SMI)
Kowluru, Anjan: Member, Center for Urban Resources to Environmental Stressors [CURES], Wayne State University
Kowluru, Anjan: Member, Advisory Committee for the Annual Research Day Symposium on “Precision translational medicine for improving veteran’s health care” held at Harry S. Truman Veterans Hospital, Columbia in May 2016
Kowluru, Anjan: Member, American Society for Experimental Biology and Medicine
Kowluru, Anjan: Member, American Diabetes Association
Kowluru, Anjan: Member, American Diabetes Association-Complications Interest Group
Kowluru, Anjan: Member, American Diabetes Association-Nutritional Sciences and Metabolism Group
Kowluru, Anjan: Member, Endocrine Society
Kowluru, Anjan: Member, European Association for the Study of Diabetes
Kowluru, Anjan: Member, European Association for the Study of Diabetes Islet Study Group.
Kowluru, Anjan: Member, European Association for the Study of Diabetes
Kowluru, Anjan: Life member, Atherosclerosis Society-India
Kowluru, Anjan: Member, Association for Research in Vision and Ophthalmology
Kowluru, Anjan: Life Member, Research Society for the Study of Diabetes-India
Kowluru, Anjan: Life Member, Free Radical Society-India
Kowluru, Anjan: Member, American Society of Cell Biology
Kowluru, Anjan: Member, American Physiological Society
Kowluru, Anjan: Member, Islet Society, Stockholm
Kowluru, Anjan: Member, Society for Free Radical Biology and Medicine
Kowluru, Anjan: Member, American Association of Pharmaceutical Sciences
Kowluru, Anjan: Member, AAPS-Clinical Pharmacology and Translational Research Section
Kowluru, Anjan: Member, AAPS-Drug Discovery and Development Interface Section
Kowluru, Anjan: Member, International Society for Eye Research
Kowluru, Anjan: Member, American Heart Association
Kowluru, Anjan: Recognized Reviewer, Biochemical Pharmacology
Kowluru, Anjan: Board Member, Metropolitan Detroit Research and Education Foundation [MDREF], John D. Dingell VA Medical Center, Detroit
Liu, Wanqing: Full member, study section, NIH ZRG1 F06 A Review Panel
Moszczynska, Anna: Member, Society for Neuroscience (SfN)
Moszczynska, Anna: Member, International Brain Organization (IBRO)
Moszczynska, Anna: Member, American Society for Pharmacology and Experimental Therapeutics (ASPET)
Moszczynska, Anna: Member, American Association of Colleges of Pharmacy (AACP)
Moszczynska, Anna: Member, International Society for Neurochemistry (ISN)
Moszczynska, Anna: Member, The Rho Chi Society
Moszczynska, Anna: Member, Society for Neuroscience Michigan Chapter (MiSfN)
Moszczynska, Anna: Member, Society for Toxicology (SOT)
Stemmler, Timothy: Grant Reviewer, NIH – ZRG1 BCMB-D (02)M Special Emphasis Panel
Stemmler, Timothy: Grant Reviewer, NSF – Biomolecules Study Section (Ad Hoc).
Stemmler, Timothy: Grant Reviewer, Friedreich’s Ataxia Research Alliance (Ad Hoc).
Stemmler, Timothy: Grant Reviewer, Reviewer, Petroleum Research Fund (Ad Hoc).
Stemmler, Timothy: Grant Reviewer, Stanford Synchrotron Radiation Laboratory.
Yi, Zhengping: Member, American Diabetes Association’s Research Grant Review Committee.
Yi, Zhengping: Member, NIH/NIDDK, Clinical and integrative Diabetes and Obesity (CIDO) Study Section.

X. Editorial Boards

Bhalla, Deepak: Editorial Board Member, Journal of Toxicology and Environmental Health
Bhalla, Deepak: Associate Editor, Inhalation Toxicology
Chen, Fei: Senior Editorial Board Member, American Journal of Cancer Research.
Chen, Fei: Editorial Board Member, Journal of Cancer Therapeutics and Research.
Chen, Fei: Editorial Board Member, Occupational Diseases and Environmental Medicine.
Chen, Fei: Editorial Board Member, Journal of Hepatocellular Carcinoma.
Chen, Fei: Editorial Board Member, Annals of Cancer Research.
Chen, Fei: Editorial Board Member, Toxicology and Applied Pharmacology.
Chen, Fei: Editorial Board Member, Scientific Reports
Corcoran, George: Editor, MO Journal Toxicology.
Corcoran, George: Associate Editor, Toxicology and Applied Pharmacology.
Corcoran, George: Guest Editor, Toxicology and Applied Pharmacology
Dutta, Aloke: Honorary Editorial Board Member, Research and Reports in Medicinal Chemistry.
Dutta, Aloke: Editorial Board Member, Current Medicinal Chemistry-Central Nervous System.
Dutta, Aloke: Editorial Board Member, The Open Bioactive Compounds Journal.
Dutta, Aloke: Editorial Board Member, Pharmaceutics.
Dutta, Aloke: Editorial Board Member, Neurotransmitter.
Firestine, Steven: Editorial Board Member, ACS Combinatorial Science.
Hirata, Fusao: Editorial Board Member, DNA and Biology.
Hirata, Fusao: Editorial Board Member, Journal of System Biology.
Hirata, Fusao: Editorial Board Member, International Journal of Clinical Pharmacology and Toxicology.
Hirata, Fusao: Editorial Board Member, SOJ Pharmacy & Pharmaceutical Sciences.
Hirata, Fusao: Editorial Board Member, Versita in Medicine, Pharmacy and Public Health.
Hirata, Fusao: Editorial Board Member, Austin Journal of Pharmacology and Therapeutics.
Hirata, Fusao: Editorial Board Member, J. Pharmacology Toxicology Research.
Iyer, Arun: Editorial Board Member, The Scientific Pages of Nanotechnology.
Kowluru, Anjan: Editorial Board Member, Recent Patents on Endocrine, Metabolic and Immune Drug Discovery.
Kowluru, Anjan: Editorial Board Member, Biochemical Pharmacology.
Kowluru, Anjan: Editorial Board Member, Metabolic & Functional Research on Diabetes.
Kowluru, Anjan: Editorial Board Member, Islets.
Kowluru, Anjan: Editorial Board Member, JOP- Journal of Pancreas.
Kowluru, Anjan: Editorial Board Member, Journal of Membrane Science and Technology.
Kowluru, Anjan: Editorial Board Member, Journal of Diabetes and Metabolism.
Kowluru, Anjan: Editorial Board Member, OA Diabetes [London].
Kowluru, Anjan: Review Editor, Frontiers in Diabetes.
Kowluru, Anjan: Regional Editor, Recent Patents on Endocrine, Metabolic and Immune Drug Discovery.
Merkel, Olivia: Editorial Board Member, Drug Delivery Letters.
Merkel, Olivia: Editorial Board Member, European Journal of Pharmaceutics and Biopharmaceutics.
Monks, Terrence: Editorial Board Member, Chemical-Biological Interactions.
Monks, Terrence: Associate Editor - Toxicology & Applied Pharmacology.
Moszczynska, Anna: Editorial board member, Scientific Reports (Nature Publishing Group)
Wang, Jiemei: Editorial Board Member, Archives of Biochemistry and Biophysics
Wang, Jiemei: Editorial Board Member, Scientific Report
Wang, Jiemei: Editorial Board Member, Human and Experimental Toxicology
Wang, Jiemei: Editorial Board Member, Kidney & Blood Pressure Research
Wang, Jiemei: Editorial Board Member, PLOS One
Wang, Jiemei: Editorial Board Member, International Journal of Molecular Science
Wang, Jiemei: Editorial Board Member, Journal of Human Hypertension
Wang, Jiemei: Editorial Board Member, Stem Cell Research & Therapy
Wang, Jiemei: Editorial Board Member, Advances in Pharmacological Sciences
Yi, Zhengping: Editorial Board Member, Journal of Data Mining in Genomics & Proteomics.
Yi, Zhengping: Editorial Board Member, International Journal of Clinical Pharmacology and Toxicology.
XI. Grants Awarded (Summarized in Table 1)

**Federal**

Chen, Fei: NIH 1R01 ES028263-01 Titled “Reduced reactive oxygen species and oxidative phosphorylation in arsenic-induced cancer stem cells”

Chen, Fei: NIH R01 ES020137 Titled “MicroRNA-190 and Oxidative Stress in Arsenic Carcinogenesis”

Chen, Fei (Co-I; Runge-Morris PI): NIH 1P30 ES020957 Titled “The Center for Urban Responses to Environmental Stressors (CURES)”

Commissaris, Randall (Dunbar PI): NIH (S06GM08167) Titled "MBRS/IMSD program at Wayne State University”

Firestine, Steve: NIH, NIAID, R01AI109139 Titled “Prophylaxis of Clostridium difficile infection”

Iyer, Arun (Co-I Amiji): NCI/NIH 1R21CA179652-01A1 Titled “Targeted Platinates/siRNA Combination Therapy for Resistant Lung Cancer”

Kowluru, Anjan: Department of VA MERIT Review 1O1BX00281 Titled “Novel Regulators of Islet Beta-Cell Function in Health and Diabetes”.

Kowluru, Anjan: Department of VA Senior Research Career Scientist Award 13S-RCS-006

Kowluru, Anjan: NIH R01EY022230 titled “NADPH Oxidase, Mitochondrial Dysfunction and Diabetic Retinopathy”.

Kowluru, Anjan: NIH R01EY022230 [supplemental award] titled “NADPH Oxidase, Mitochondrial Dysfunction and Diabetic Retinopathy”.

Kowluru, Anjan: Shared Equipment [ShEEP] Award from VA to purchase Vevo 3100 Ultrasound instrument.

Kowluru, Anjan: VA Merit Award [101BX002019] Titled “Diabetes: ERK5 and Vascular Inflammation”

Liu, Wanqing (PI: Crabb/Chalasani): NIAAA U01 (AA021840) Titled “Translational Research and Evolving Alcoholic hepatitis Treatment (TREAT-IU)”

Liu, Wanqing NIH/NIDDK R01 Titled “Role of fatty acid desaturase 1 (FADS1) gene variants and nonalcoholic fatty liver disease (NAFLD)”

Liu, Wanqing (PI Renbarger): NIH/NICHD U54 Titled “Genetic and Ontogenic Determinants for Pharmacogenes Expression in Children Livers”


Moszczynska, Anna: NIH R01DA034783 Titled “Proteasome and Parkin as Drug Targets Against Methamphetamine Toxicity”

Pitts, David: NSF-FSML 1624761, Co-PI, “HEART Field Station Improvements for Urban Watershed Research and Education”

Pitts, David: NIH R21-ES027199, Co-PI, Project Titled: “Rapid response to contaminants in Flint drinking water”

Stemmler, Timothy: NIH R01 GM107542 Titled “Mitochondria Cytosolm Interaction for Cytosolic Fe-S Cluster Assembly”
Stemmler, Timothy: NIH R01 DK068139 Titled “Structural Insights into the Function of Frataxin”

Stemmler, Timothy: NIH F30 DK101230 Titled “Characterizing Isu Scaffolding Protein and ISC Multiprotein Complex Structure and Function In Vitro”

Wang, Jiemei: NIH DK109036 Titled “Role of Inositol requiring enzyme 1 in regulating angiogenesis for diabetic wound repair”

Yi, Zhengping (Kowluru Co-I): NIH R01DK081750 Titled “Human Skeletal Muscle Proteome and Phosphoproteome in Obesity and Type 2 Diabetes”

Yi, Zhengping (Kowluru Co-I): NIH R01DK107666 Titled “Serine/threonine Protein Phosphatase 1 in Insulin resistance and Type 2 Diabetes”

Foundation

Firestine, Steve: President’s Research Enhancement Award Titled “Urban Center for Antimicrobial Resistance, Discovery, Education and Stewardship (UCARDES)”

Commissaris, Randall: Lear Corporation (Research Contract; Lear Corporation) Titled “Lear’s Dynamic Rear Impact Injury Mitigation Device: Driving Simulator Studies”

Iyer, Arun: ACS-IRG# 14-238-06 Titled “Polymer-lipid Hybrid Theranostic Nanoparticles for Targeted Cancer Therapy”

Kowluru, Anjan: Department of Veterans Affairs. Senior Research Career Scientist Award

Kowluru, Anjan: Department of VA Titled “Diabetes: ERK5 and Vascular Inflammation”

Liu, Wanqing: CURES Pilot Grant Titled “Heavy Metals and Nonalcoholic Fatty Liver Disease”

Liu, Wanqing (PI Overholser): “IUSM Center of Excellence in Cardiovascular Research”

Liu, Wanqing Indiana CTSI-CTR Titled “A Precision Therapeutic Approach for Nonalcoholic Steatohepatitis (NASH)”

Liu, Wanqing (PI: Overholser): Indiana CTSI-CTR Titled “Calcium-dependent transcriptional regulation of KCNH2”

Liu, Wanqing (PI: Overholser): American Heart Association Titled “Pathophysiological regulation of KCNH2 in heart failure”

Pitts, David (PI Tracie Baker): CURES grant (internal) Titled “The use of novel assay systems to evaluate cardiac, reproductive, and neurobehavioral effects of volatile organic chemicals (VOCs) in aquatic model organisms”

Pitts, David: Seed Grants for Project Development (Internal) Titled “Emerging and endocrine disrupting chemicals in Detroit drinking water”

Wang, Jiemei: American Heart Association 13SDG16930098 Titled “MicroRNA regulation of endothelial progenitor cell apoptosis in diabetic wound healing”

Qin, Zhihui: Department of Defense Prostate Cancer Research Program Idea Development Award for New Investigator Titled “Targeting prostate cancer cells by combined androgen receptor antagonism and oxidative stress induction”

Yi, Zhengping: American Diabetes Association 300385387 Titled “Protection against insulin resistance in obesity”

Zhang, Xiangmin: MDRC Titled “Recombinant attenuated bacteria as drug to initiate insulin synthesis in vivo”
University/College

**Firestine, Steve**: University of Las Vegas Titled “Prophylaxis of Clostridium difficile infection”

**Firestine, Steve**: Karmanos Cancer Center Titled “Development of Potent Small Molecule Inhibitors Targeting Rad6, a Principal Component of the Translesion DNA Synthesis Pathway”

**Iyer, Arun**: Faculty Research Award Program (FRAP) Titled “Polymeric Nanoparticles for Co-Delivery of Anti-infective Agents for Treating Bacterial Drug Resistance”

**Liu, Wanjing**: Purdue MCMP: Role of Genetic Changes in Fatty Acid Desaturase Levels in Parkinson's Disease

**Moszczynska, Anna**: GRA Award Titled “The role of striatal parkin in methamphetamine neurotoxicity and methamphetamine addiction”.

**Moszczynska, Anna (Co-PI: Burghardt)**: FRAP Collaborative Research Award Titled “The role of transposable elements in neurotoxic effect of chronic methamphetamine”

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**Table 1: PSC Grant Detailed Information** (*Total Award*)

<table>
<thead>
<tr>
<th>PSC Faculty</th>
<th>Sponsor</th>
<th>Grant Title</th>
<th>Start Date</th>
<th>End Date</th>
<th>Project Amount*</th>
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<tbody>
<tr>
<td>Chen, Fei</td>
<td>NIH</td>
<td>MicroRNA-190 and Oxidative Stress in Arsenic Carcinogenesis</td>
<td>9/1/12</td>
<td>5/31/17</td>
<td>$2,048,592</td>
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<tr>
<td>Chen, Fei</td>
<td>NIH</td>
<td>Reduced reactive oxygen species and oxidative phosphorylation in arsenic-induced cancer stem cells</td>
<td>08/15/2017</td>
<td>06/30/2022</td>
<td>$1,686,385</td>
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<td>Chen, Fei</td>
<td>NIH</td>
<td>The Center for Urban Responses to Environmental Stressors (CURES)</td>
<td>04/01/2017</td>
<td>03/30/2022</td>
<td>$7,500,000</td>
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<tr>
<td>Commissaris, Randall</td>
<td>NIH</td>
<td>MBRS/IMSD program at Wayne State University</td>
<td>04/01/2015</td>
<td>03/31/2019</td>
<td>$4,834,311</td>
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<tr>
<td>Commissaris, Randall</td>
<td>Lear Corporation</td>
<td>Lear's Dynamic Rear Impact Injury Mitigation Device: Driving Simulator Studies</td>
<td>09/01/2017</td>
<td>08/31/2018</td>
<td>$109,634</td>
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<td>Dutta, Aloke</td>
<td>NYU</td>
<td>Biogenic Amine Transporters: Mechanisms of Ligand Interactions</td>
<td>4/1/16</td>
<td>3/31/17</td>
<td>$20,000</td>
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<tr>
<td>Firestine, Steve</td>
<td>NIH/NIAID</td>
<td>Prophylaxis of Clostridium difficile infection</td>
<td>12/1/14</td>
<td>11/30/19</td>
<td>$1,308,864</td>
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<td>Name</td>
<td>Institution</td>
<td>Title</td>
<td>Start Date</td>
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<tr>
<td>Firestine, Steve</td>
<td>President's Research Award</td>
<td>Urban Center for Antimicrobial Resistance, Discovery, Education and Stewardship (UCARDES)</td>
<td>11/1/2015</td>
<td>10/31-2018</td>
<td>$892,296</td>
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<tr>
<td>Firestine, Steve</td>
<td>Karmanos Cancer Center</td>
<td>Development of Potent Small Molecule Inhibitors Targeting Rad6, a Principal Component of the Translesion DNA Synthesis Pathway</td>
<td>11/1/2016</td>
<td>9/30/2018</td>
<td>$50,000</td>
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<tr>
<td>Iyer, Arun</td>
<td>NCI/NIH</td>
<td>Targeted Platinates/siRNA Combination Therapy for Resistant Lung Cancer</td>
<td>04/2014</td>
<td>03/2017</td>
<td>$77,806</td>
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<td>Iyer, Arun</td>
<td>ACS</td>
<td>Polymer-lipid Hybrid Theranostic Nanoparticles for Targeted Cancer Therapy</td>
<td>09/01/2017</td>
<td>08/31/2018</td>
<td>$30,000</td>
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<tr>
<td>Kowluru Anjan</td>
<td>VA</td>
<td>Novel Regulators of Islet Beta-Cell Function in Health and Diabetes</td>
<td>7/1/15</td>
<td>6/30/19</td>
<td>$650,000</td>
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<td>Kowluru Anjan</td>
<td>VA</td>
<td>Senior Research Career Scientist Award</td>
<td>9/1/13</td>
<td>8/31/20</td>
<td>$1,320,000</td>
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<td>Kowluru Anjan</td>
<td>NIH</td>
<td>NADP Oxidase, Mitochondrial Dysfunction and Diabetic Retinopathy</td>
<td>4/1/12</td>
<td>3/31/18</td>
<td>$1,520,000</td>
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<td>Kowluru Anjan</td>
<td>NIH</td>
<td>NADP Oxidase, Mitochondrial Dysfunction and Diabetic Retinopathy [Administrative Supplement]</td>
<td>4/1/12</td>
<td>3/31/18</td>
<td>$50,500</td>
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<tr>
<td>Kowluru Anjan [Co-I]</td>
<td>VA-Merit</td>
<td>Diabetes: ERK5 and Vascular Inflammation</td>
<td>10/1/14</td>
<td>9/30/18</td>
<td>$1,113,000</td>
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<tr>
<td>Name</td>
<td>Organization</td>
<td>Project Title</td>
<td>Start Date</td>
<td>End Date</td>
<td>Funding Amount</td>
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<td>Anjan Kowluru</td>
<td>VA-ShEEP</td>
<td>Vevo 3100 Ultrasound Instrument</td>
<td>2016</td>
<td>Not applicable</td>
<td>$556,000</td>
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<td>Wanqing Liu</td>
<td>NIH/NIDDK</td>
<td>Role of fatty acid desaturase 1 (FADS1) gene variants and nonalcoholic fatty liver disease (NAFLD)</td>
<td>09/22/2016</td>
<td>07/31/2021</td>
<td>$1,912,508</td>
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<tr>
<td>Anna Moszczynska</td>
<td>NIH</td>
<td>Proteasome and Parkin as Drug Targets Against Methamphetamine Toxicity</td>
<td>9/15/13</td>
<td>5/31/18</td>
<td>$2,029,580</td>
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<td>David Pitts</td>
<td>NIH</td>
<td>Rapid response to contaminants in Flint drinking water</td>
<td>4/1/16</td>
<td>3/31/18</td>
<td>$422,110</td>
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<td>Anna Moszczynska</td>
<td>NSF</td>
<td>HEART Field Station Improvements for Urban Watershed Research and Education</td>
<td>8/1/16</td>
<td>1/31/18</td>
<td>$251,996</td>
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<td>Timothy Stemmler</td>
<td>NIH</td>
<td>Structural Insights into the Function of Frataxin</td>
<td>8/1/11</td>
<td>7/31/16</td>
<td>$1,995,386</td>
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<td>Timothy Stemmler</td>
<td>NIH</td>
<td>Mitochondria Cytoplasm Interaction for Cytosolic Fe-S Cluster Assembly</td>
<td>7/1/14</td>
<td>4/30/17</td>
<td>$79,637</td>
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<td>Timothy Stemmler</td>
<td>NIH</td>
<td>Characterizing Isu Scaffolding Protein and ISC Complex Structure and Function In Vitro</td>
<td>8/1/14</td>
<td>7/31/19</td>
<td>$281,534</td>
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<td>Jiemei Wang</td>
<td>NIH</td>
<td>Role of Inositol requiring enzyme 1 in regulating angiogenesis for diabetic wound repair</td>
<td>3/1/16</td>
<td>2/28/21</td>
<td>$1,702,343</td>
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<td>Jiemei Wang</td>
<td>AHA</td>
<td>MicroRNA regulation of endothelial progenitor cell apoptosis in diabetic wound healing</td>
<td>7/1/13</td>
<td>6/30/17</td>
<td>$231,000</td>
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<td>Zhengping Yi</td>
<td>NIH</td>
<td>Serine/threonine Protein Phosphatase</td>
<td>9/25/15</td>
<td>8/31/20</td>
<td>$2,583,325</td>
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<tr>
<td>Name</td>
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<td>Start Date</td>
<td>End Date</td>
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<tr>
<td>Yi, Zhengping</td>
<td>NIH</td>
<td>Human Skeletal Muscle Proteome and Phosphoproteome in Obesity and Type 2 Diabetes</td>
<td>8/1/14</td>
<td>4/30/18</td>
<td>$1,349,133</td>
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<td>Yi, Zhengping</td>
<td>ADA</td>
<td>Protection against insulin resistance in obesity</td>
<td>1/1/16</td>
<td>12/31/18</td>
<td>$148,158</td>
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<td>Zhang, Xiamging</td>
<td>NIH</td>
<td>Recombinant attenuated bacteria as drug to initiate insulin synthesis in vivo</td>
<td>12/1/16</td>
<td>11/30/17</td>
<td>$36,000</td>
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### XII. Invited Presentations

**Chen, Fei**: Environmental arsenic and metabolic reprogramming in cancer stem cells. Department of Pharmaceutical Sciences, South Dakota State University

**Chen, Fei**: Mdig and cancer, 20 years of mining and digging. Fudan University-Wayne State University Colloquium in translational sciences: Genetic and epigenetic modulations of cancer

**Dutta, Aloke**: A novel iron (ii) preferring dopamine agonist chelator d-607 significantly suppresses α-syn- and MPTP-induced toxicities in vivo. The 13th International Conference on Alzheimer’s & Parkinson’s, Vienna, Austria.

**Dutta, Aloke**: Multifunctional dopamine agonist as potential symptomatic and neuroprotective treatment agents for Parkinson’s disease. ACS 2017 Central Regional Meeting.

**Firestone, S.M.**: Spores and Purines: Developing New Antibacterial Agents. Department of Pharmacology, Michigan State University, East Lansing

**Kowluru, Anjan**: “Beta-Cell Signaling Revisited” to be held in St Jean Cap Farrat, France in 18th Servier-IGIS Symposium

**Liu, Wanqing**: Nonalcoholic Fatty Liver Disease: Genetics, Genomics and Precision Medicine. Department of Biochemistry and Molecular Biochemistry, Wayne State University

**Liu, Wanqing**: Nonalcoholic Fatty Liver Disease: Genetics, Genomics and Precision Medicine. CMMG, Wayne State University

**Liu, Wanqing**: Nonalcoholic Fatty Liver Disease: Genetics, Genomics and Precision Medicine. Genomics@Wayne., Wayne State University

**Liu, Wanqing**: Germline Genetics of Somatic Mutations in Non-Small Cell Lung Cancer. Cancer Center, Sun Yat Sen University, Guangzhou, China

**Liu, Wanqing**: Diagnosis and Therapy in the Era of Precision Medicine. Shanghai Children’s Hospital. Shanghai, China
Moszczynska, Anna: Department of Pharmacology and Experimental Therapeutics, College of Pharmacy and Pharmaceutical Sciences, University of Toledo, Toledo, Ohio, USA
Moszczynska, Anna: Faculty of Science University of Waterloo, School of Pharmacy, Kitchener, Ontario, Canada
Stemmler, Timothy: International Conference on the Global Perspectives on Multidisciplinary Approaches in Pharmaceutical Sciences, IPS Academy, Indore, MP, India, Keynote Speaker
Stemmler, Timothy: Molecular Factors that Drive Mitochondrial Fe-S Cluster Biosynthesis, Department of Biological Sciences, University of Michigan, Dearborn, Michigan
Stemmler, Timothy: Molecular Factors that Drive Mitochondrial Fe-S Cluster Biosynthesis, Canadian Conference for Bioinorganic Chemistry, Parry Sound, Canada
Stemmler, Timothy: Responsible Conduct of Research Program to Meet All Students’ Needs, Midwest Association of Graduate Schools, Indianapolis, IN
Wang, Jiemei: Seminar, Department of Anatomy and Cell Biology, Wayne State University School of Medicine, Detroit, MI
Yi, Zhengping: Proteomics discovery of abnormal tyrosine phosphorylation events in type 2 diabetes, Metabolism Monthly Meeting, Center for Integrative Metabolic and Endocrine Research (CIMER), SOM

XIII. Journal Publications


XIV. Book Chapters and Books


*Corresponding Author
**XV. Patents Issued or Pending**

**Dutta, Alok:** Tri-substituted 2-benzhydryl-5-benzlamino-tetrahydro-pyran-4-ol and 6-benzhydryl-4-benzylamino-tetrahydro-pyran-3-olanalogues, and novel 3,6 disubstituted pyran derivatives. Canadian Pat No, 2563161, January 24, 2017.


**Yi, Zhengping** and Zhang, Xiangmin, "Isolating adherent cell clones by tracing circular petroleum jelly walls", Invention Disclosure filed under Wayne State University 2017

**XVI. Abstracts**

Mohammed, MB, Murdock, BAD., Taneja, R., Malone, KJS., Buchanan, B., Smith, C., Olson, B., Head, D., **Commissaris, RL.** Medical Marijuana Effects on Texting While Driving: Preliminary Studies. BUILD Summer Symposium, Wayne State University, 2017.

Smith, C.J., Malone, KJS., Mohammed, MB., Murdock, B., Buchanan, B., Taneja, R., Head, D., **Commissaris, RL.** I Didn’t See That Coming !!! A ‘Hands On’ Exposure to the Hazards of Texting While Driving. BUILD Summer Symposium, Wayne State University, 2017.

Taneja, R., Alali K., Mohammed, MB., Murdock, BAD., Malone, KLS., Buchanan, B., Olson, B., Head, D., **Commissaris, RL.** Medical Marijuana Effects on Texting While Driving: Preliminary Studies. Brainstorm 2018, Wayne State University, 2017.


Sau, S., Kashaw, SK., Alsaab, H., **iyer, AK.** Folate Receptor Targeted Liposome for Treating Cancer and Autoimmune Disease. Graduate and postdoctoral research symposium, Wayne State University, 2017.


Kashaw, SK., **iyer, AK.** Docking guided virtual screening of pde4b inhibitors for the development of drugs to treat COPD: Exploring the role of water molecules at ligand binding domain. Graduate and postdoctoral research symposium, Wayne State University, 2017.


Alzhrani, R., Sau, S., Alsaab, H., **iyer, AK.** Polymer-Lipid Hybrid Nanoparticles Loaded with Drug-Gene Payload for Combination Therapy and Imaging of Pancreatic Ductal Adenocarcinoma. WSU graduate research day, 2017.


Sau, S., Kashaw, SK., Alsaab, H., **iyer, AK.** Folate Receptor Targeted Liposome for Treating Cancer and Autoimmune Disease. Graduate and postdoctoral research symposium, Wayne State University, 2017.


Kashaw, SK., **iyer, AK.** Docking guided virtual screening of pde4b inhibitors for the development of drugs to treat COPD: Exploring the role of water molecules at ligand binding domain. EACPHS Research Day, 2017.


Gawde, KA., **Iyer, AK.** Combination Studies of Folate Decorated Albumin Encapsulated Paclitaxel and 2,3-difluoro curcumin for treatment of Cervical Cancer and Ovarian Cancer. Graduate and postdoctoral research symposium, Wayne State University, 2017.

Baidwan S, Chekuri A, **Kowluru A.** Glucotoxicity promotes aberrant activation and mislocalization of Ras-related C3 botulinum toxin substrate 1 [Rac1] and metabolic dysfunction in pancreatic islet β-cells: Reversal of such metabolic defects by metformin. Annual Research Day, John D. Dingell VA Medical Center, 2017.


**Kowluru A.** Defective prenylation of Rac1 mediates metabolic dysfunction of pancreatic β-cells under the duress of metabolic stress. International Physiological Society meetings, Rio de Janeiro, Brazil, 2017.


Khan S, **Kowluru A.** CD36, a fatty acid translocase, contributes to lipid accumulation in pancreatic beta-cells under the duress of glucolipotoxic conditions. Michigan Regional Post-Doctoral Symposium held at Wayne State University, September, 2017.

Khan S, **Kowluru A.** Inhibition of decetylases attenuates lipid accumulation and caspase 3 activation in pancreatic beta cells under the duress of glucolipotoxicity: Potential roles for CD36 activity. Accepted for presentation in ASCB/EMBO meetings in Philadelphia, December, 2017.

Khan S, Kowluru A. CD36, a fatty acid translocase, contributes to lipid accumulation in pancreatic beta-cells under the duress of glucolipotoxic conditions. Presented in the Annual Research Forum, Eugene Applebaum College of Pharmacy, Wayne State University, November, 2017.


Tremonti, A.R., Pitts, D.K., Hashemi, P., McElmurry, S.P. Sublethal Cu effects on photo stimulated neurotransmitter release in Daphnia magna using Fast Scan Cyclic Voltammetry. International Association of Great Lakes Research, 2017


Ou, S., Liping Xu; Qin, Z. Synthesis and in vitro anti-prostate cancer activities of androgen receptor ligand-isothiocyanate hybrid drug AACR-NCI-EORTC Molecular Targets and Cancer Therapeutics International Conference, Philadelphia, PA, 2017

Qin, Z., Discovery of Hybrid Androgen Receptor Ligands for Prostate Cancer Treatment Department of Medicinal and Biological Chemistry, University of Toledo, 2017


XVII. Departmental Seminars

Winter 2017

January 11: Arsenic biotransformations and new arsenic antibodies. Dr. Barry Rosen, Cellular Biology and Pharmacology, Florida International University, Miami, FL

February 1: Novel regulators of ischemic injury and repair. Dr. Gangjian Qin, Director of Molecular Cardiology Program, University of Alabama, Birmingham AL

February 8: Mitochondria superoxide dismutase (SOD2), reactive oxygen species and cancer: Shedding light onto the missing links. Dr. Marcelo Bonini, Director of Oxidation Stress Core, University of Illinois Chicago, Chicago, Illinois

February 15: Simulant use disorder, brain function, and dopamine receptor subtypes. Dr. Edythe London, Department of Psychiatry and Biobehavioral Sciences and Molecular and Medical Pharmacology, Semel Institute of Neurosciences and Human Behavior, UCLA, Los Angeles, CA

March 15: Multidimensional nanoparticles for personalized diagnostics and therapy of NSCLC. Dr. Raghuraman Kannan, Department Radiology and Biological Engineering, Bukstein Chair in Cancer Research, University of Missouri, Columbia, MO

March 22: Dietary cancer prevention with natural tocopherols. Dr. Nanjoo Suh, Rutger's University, Piscataway, NJ

March 29: Building an imaging toolbox: Nanosensors for biological discovery. Dr. Heather Clark, Department of Pharmaceutical Sciences, Northeastern University, Boston, MA

April 19: The Dynamic Nature of Isu1 During Fe-S Cluster Biosynthesis. Brianne Lewis, 3rd Year PhD Student Seminar, Department of Pharmaceutical Sciences, Wayne State University, Detroit, MI

May 3: The role of Parkin in methamphetamine dependence and neurotoxicity in methamphetamine self-administration model. Akhil Sharma, 3rd Year PhD Student Seminar, Department of Pharmaceutical Sciences, Wayne State University, Detroit, MI

May 10: Design, synthesis and biological evaluation of carbohydrate derivatives as potential antitumor and antiviral agents. Dr. Yongmin Zhang, Director of Research CRNS, University of Paris 6, Pierre and Marie Curie University, Paris Institute of Molecular Chemistry, Paris, France
Fall 2017

September 6: Dynamics of Cu homeostasis. Dr. Sabeha Merchant, Department of Chemistry & Biochemistry, Director, Institute of Genomic and Proteomics, UCLA, Los Angeles, CA.

September 13: Zwitterionic Polymers for Nanomedicine and Implants. Dr. Zhiqiang Cao, Department of Chemical Engineering and Materials Science, Wayne State University, Detroit, MI.

September 20: Nrf2 in Environmental Response and Disease Intervention. Dr. Donna Zhang, Department of Pharmacology and Toxicology, College of Pharmacy, The University of Arizona Health Sciences, Tuscan, AZ.

September 29: Can non-coding RNAs help control bacterial inflammation? Dr. Min Wu, Immunology and Microbiology (Joint Appointment, Department of Bio Medical Science. University of North Dakota, Grand Forks, ND.

October 4: Anti-inflammatory Drugs for the Prevention and Treatment of Cancer. Dr. Karen Liby, Department of Pharmacology and Toxicology, Michigan State University, East Lansing, MI.

October 18: Whole Cell Based Phage Display Identifies Perlecan as a Target in Metastatic Breast Cancer. Dr. Jayanth Panyam, Department of Pharmaceutics, College of Pharmacy, University of Minnesota, Minneapolis, MN.

October 25: CCAR2 as a target for early intervention of colorectal cancer. Dr. Roderick H. Dashwood, Director, John S. Dunn Chair for Disease Prevention, Center for Epigenetics & Disease Prevention, Texas A&M University, Houston, TX.

November 15: The Role of Hypothalamic Inflammation in Metabolic Programming and Aging. Dr. Marianna Sadagurski, College of Liberal Arts & Sciences, Wayne State University. Adjunct Assistant Research Professor (University of Michigan)

November 29: Corticohippocampal Dysfunction in the OBiden Model of Primary Oligodendrogliopathy. Dr. Alex Gow, Center for Molecular Medicine and Genetics, Pediatrics and Neurology, Wayne State University School of Medicine, Detroit, MI.

December 6: Leverage Physiology for Bioresponsive Drug Delivery. Dr. Zhen Gu, Jackson Family Endowed Chair, Joint Department of Biomedical Engineering, University of North Carolina at Chapel Hill and NC State University, Translational Innovation (TraIn) Professional Science Master Program.