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Annual Poster Session 2020

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10-23-2020

## D01. BMS Department Poster

University of Mississippi. Department of BioMolecular Sciences

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### Recommended Citation

University of Mississippi. Department of BioMolecular Sciences, "D01. BMS Department Poster" (2020). *Annual Poster Session 2020*. 24.

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THE UNIVERSITY of  
**MISSISSIPPI**  
DEPARTMENT OF BIOMOLECULAR  
SCIENCES

### Vision

We are a department of leaders in inter-disciplinary life sciences dedicated to improving human and environmental health through education, biological and chemical research, and committed service.

### Mission

Our mission is to drive innovation through combined excellence in the disciplines of Pharmacognosy, Medicinal Chemistry, Pharmacology, and Environmental Toxicology in order to understand and improve human and environmental health. We will provide positive impacts to our school, the state of Mississippi, and the world, via education and mentored research at the undergraduate, graduate, and postdoctoral levels, and through our leadership in inter-disciplinary chemical and biological sciences.

Faculty and students in our four divisions conduct research and educational activities broadly in the following areas:

**Environmental Toxicology** seeks to identify and resolve problems related to environmental health.

**Medicinal Chemistry** designs and synthesizes biologically active compounds based on structure activity relationships.

**Pharmacognosy** isolates and discovers the functions of natural products.

**Pharmacology** identifies the mechanisms of action and molecular targets of biomedical compounds.



### Graduate Student Awards and Recognitions

**Virginia Dolores Cantu Fellowship** – Stephanie Burr & Alaa Qrareya

**UMMC-GTEC Graduate Scholar program** – Cellas Hayes

**American Chemical Society Travel** – Amna Adam

**Inducted into Rho Chi** – Tomayo Berida, Niloofar Khaje, Md Imdadul Huque Khan, Hao Liu, Hayley Prescott, Alaa Qrareya, & Salahuddin Mohammed

**Inducted into The Honor Society of Phi Kappa Phi** – Salahuddin Mohammed

### Faculty Awarded Grants

**Joshua Sharp & Samir Ross** – NIH, GlyCORE: Glycoscience Center of Research Excellence

**Sudeshna Roy & Robert Doerksen** – NIH, Target-based chemotherapeutics development against Mycobacterium tuberculosis

**Joshua Sharp** – NIH, Molecular Structure Determination by Mass Spectrometry and Computational Modeling

**Jason Paris** – NIH, Opiate abuse and sex steroids influence NeuroAIDS pathology – supplement

**Kristie Willett** – NIH, Mechanisms of developmental and reproductive toxicity from preconceptional BaP exposure - Summer Research Experiences for Students (Admin Supp)

**Joshua Sharp** – NSF, Measuring Protein in Conformationally Heterogenous Mixtures by Top-Down Hydroxyl Radical Protein Footprinting

**Sudeshna Roy & Robert Doerksen** – NIH, Targeted-based Chemotherapeutics Development Against Mycobacterium Tuberculosis

**Joshua Sharp** – NIH, Molecular Structure Determination by Mass Spectrometry and Computational Modeling

**BMS Contributors: Ashpole, Rimoldi, & Willett** – NIH, NPN COBRE Phase III Center

**Nicole Ashpole & Jason Paris** – NIH, Anti-inflammatory Effects of Novel Minor Cannabinoids & Terpenes on Cellular & Murine Models of HIV & HIV Proteins

**Kristie Willett** – NIH, Mechanisms of developmental & reproductive toxicity from preconceptional BaP exposure

**Kristie Willett & Cole Stevens** – NIH, Eukaryotic Translation Factor Inhibitors as Selective Translation Factor probes and Anticancer Therapeutics

**Cole Stevens, Joshua Sharp, & Vitor Pomin** – NIH, Myxobacteriok Predatory Antimicrobial Production in Response to Quorum Sensing Signal Inception

### Faculty Awards and Recognition

**P1 Teacher of the Year** – James Stewart  
**P2 Teacher of the Year** – Noa Valcarcel  
**BMS1 Recognized as P1 Team of the Year** – (Team Leader - Hoang Le, Jason Paris, & Sudeshna Roy)  
**UM Achievement Award** – David Colby  
**New Investigator Research Award** – Jason Paris  
**Distinguished Teaching Scholar** – David Colby  
**Inaugural AACP Graduate Education SIG Achievement** – Kristie Willett

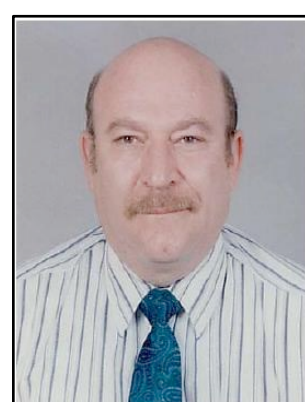
### Department Achievements for 2019 – 2020

Over 141 poster/podium presentations at regional, national and international conferences by faculty, research scientists and graduate students

51 publications • 2 book chapters

### 2020 Joseph Sam Distinguished Alumnus

**Dr. Hassan Aboul-Enein**  
Professor Emeritus  
Department of Pharmaceutical and Medicinal Chemistry  
National Research Centre  
Class of 1971



"The memories of The University of Mississippi will be always be engraved in my heart."

### Distinguished Guest Lecturer selected by BMS Graduate Students



**Dr. James Prestegard**  
Professor Emeritus  
Department of Chemistry  
University of Georgia

### Members of the Faculty



Kristie Willett, *Chair Etox & Pcol*



Nicole Ashpole  
*Pcol*



Paul Boudreau  
*Pcog*



David Colby  
*Med Chem*



Robert Doerksen  
*Med Chem*



Deborah Gochfeld  
*Etox*



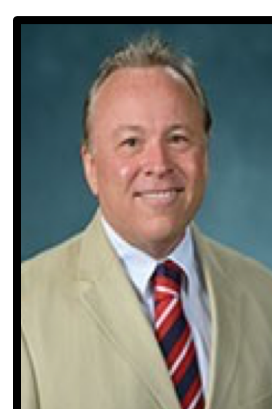
Ikhlas Khan  
*Pcog*



Hoang Le  
*Med Chem*



Jing Li  
*Med Chem*



Dale Nagle  
*Pcog*



Jason Paris  
*Pcol*



Vitor Pomin  
*Pcog*



John Rimoldi  
*Med Chem & Etox*



Courtney Roper  
*Etox*



Samir Ross  
*Pcog*



Sudeshna Roy  
*Med Chem & Pcog*



Ziaeddin Shariat-Madar  
*Pcol*



Joshua Sharp  
*Pcol*



Marc Slattery  
*Pcog & Etox*



James Stewart  
*Pcol*



Cole Stevens  
*Pcog*



Noa Valcarcel-Ares  
*Pcol*

### 2020 Distinguished Graduate Student Awards

**Edith Pritchard** – Stephanie Burr

**Marvin Davis** – Alaa Qrareya

**Outstanding Pharmacognosy** – Shukria Akbar

**Outstanding Medicinal Chemistry** – AyoOluwa Aderibigbe

**BMS Student Advocate Excellence** – Mohammed Hawwal