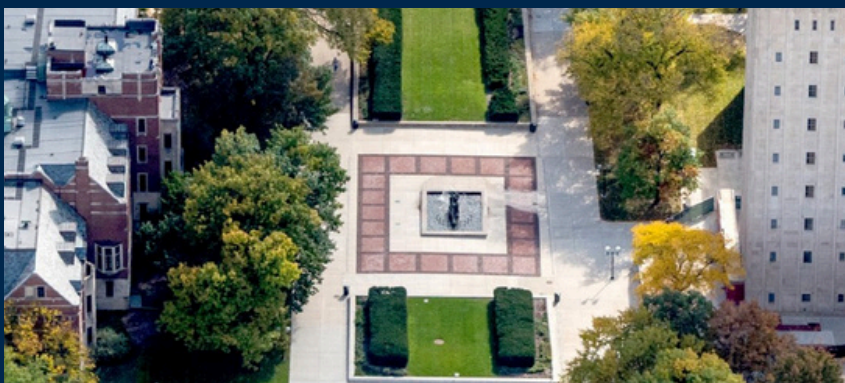




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ABOUT US

Our Mission

The Great Lakes Pharmacy Conference exposes regional pre-pharmacy students to the growing field of pharmacy, creates unique learning and networking opportunities, and enhances educational and career potential. We aim to accomplish this through a series of interactive activities that both expand on the framework of pharmacy and connects students with professional innovators and relevant current issues.

About PPSO

GLPC is an event sponsored by the Pre-Pharmacy Student Organization (PPSO) at the University of Michigan. PPSO, the only pre-pharmacy organization at the University of Michigan, is a student-run club for undergraduate students interested in careers in pharmacy. Through a combination of professional development, career exploration, academic success, social, and networking activities, we work together to make the most of our undergraduate years to prepare for the next steps in our education and our place in the exciting and dynamic field of pharmacy. We are future pharmacists, preparing for the future of pharmacy.

SCHEDULE

Time	Amphitheatre	Assembly Hall	Earl Lewis	East Conference Room	West Conference Room
8:00-8:45		Breakfast			
9:00-9:50	Keynote Speech				
10:00-10:50	Interprofessional Panel	Compounding workshop	Antimicrobial Resistance and Infectious Diseases Panel	University of Minnesota Presentation	
11:00-11:50	PharmCAS Workshop		Medicinal Chemistry 101	University of North Carolina Presentation	
12:00-1:30				School Fair	School Fair
1:15-2:00		Lunch			
2:00-2:50	Industry Panel	Clinical Pharmacy Case Studies	Pharmaceutical Sciences 101	University of Illinois Chicago Presentation	
3:00-3:50	Graduate School Application Tips		Introduction to Health Systems Pharmacy	Roseman University Presentation	University of Washington Presentation
4:00-4:50	Alumni Panel	Clinical Pharmacy Case Studies	Medicinal Chemistry Research	Wayne State University Presentation	
5:00-5:50	Pharmacy Student Panel		Pharmaceutical Sciences Research	University of Michigan Presentation	Ohio State University Presentation



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KEYNOTE SPEAKER



Dr. Amit (Manjunath) Pai

Department of Clinical Pharmacy Chair,
Professor of Clinical Pharmacy, College of
Pharmacy, University of Michigan

Education/Experience:

- **PharmD:** The University of Texas at Austin
- **Pharmacy Practice Residency:** Bassett Healthcare (Cooperstown, NY)
- **Infectious Disease/Pharmacokinetics Fellowship:** University of Illinois at Chicago

Research Interests:

- Antimicrobial Pharmacokinetics/Pharmacodynamics in Obesity
- Precision Medicine through Treatment Algorithms that Rely on Adaptive Feedback Design
- Population Pharmacokinetic Systems Analyses to Optimize Drug Dosing in Special Populations

Contact: amitpai@umich.edu; @DosingMatters

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WORKSHOPS & PANELS

INTERPROFESSIONAL PANEL

Stan Kent



- **M.S. in Hospital Pharmacy:** University of Wisconsin-Madison
- **Chief Pharmacy Officer,** Michigan Medicine
- **Associate Dean for Clinical Affairs,** University of Michigan College of Pharmacy
- **Clinical Assistant Professor of Pharmacy,** University of Michigan College of Pharmacy
- stkent@med.umich.edu

Shannon Cahalan

- **Current M.D. Student:** University of Michigan Medical School

Maribel Okiye

- **Current PhD Student in Chemistry:** University of Michigan (Advisor: Dr. David Sherman)
- **Current MS Student in Bioinformatics:** University of Michigan
- maribelo@umich.edu

Elizabeth R. Hartfield

- **DDS:** University of Michigan School of Dentistry
- **Clinical Instructor of Dentistry:** Department of Oral and Maxillofacial Surgery, University of Michigan School of Dentistry
- lizhat@med.umich.edu

Nour Kadouh

- **Fourth-year PharmD student, University of Michigan College of Pharmacy**
- **Bachelor of Science in Psychology and Biological Sciences, University of Michigan-Dearborn**
- During her time at the College of Pharmacy, Nour has been involved in the Leadership Scholars Program, Pharmacy Student Ambassadors, American Pharmacists Association-Academy of Student Pharmacists, and Arab American Pharmacists Association.
- Selected as a 2021 American Association of Colleges of Pharmacy Walmart Scholar; co-created a professional elective on leadership for PharmD students at the College of Pharmacy.
- **Post-graduation plans:** join a residency program, with the hopes of pursuing a career in academia and specializing as a pediatric clinical pharmacist in the future.

MEDICINAL CHEMISTRY 101

Dr. Roland Kersten

- **Assistant Professor of Medicinal Chemistry:** University of Michigan College of Pharmacy
- **Research Interests:** Dr. Kersten uses a combination of herbal medicinal knowledge and plant genome mining to discover new plant chemistry with therapeutic potential. The goal of his research is to overcome bottlenecks in natural product drug discovery and development.
- rkersten@med.umich.edu

Dr. Alanna Condren

- **Postdoctoral Fellow:** David Sherman Lab, University of Michigan Life Sciences Institute
- **Research Interests:** Dr. Condren's dissertation work was focused on employing mass spectrometry and other analytical chemistry techniques to understand the chemical communication of infectious bacteria and the mechanisms they use to become antibiotic drug resistant.

Dr. Peter Toogood

- **Director, Michigan Drug Discovery** (an initiative to translate academic discoveries into new advances in medicine at the University of Michigan)
- **Research Interests:** Dr. Toogood's drug discovery experience encompasses the fields of immunology/inflammation, infectious diseases and cancer. He was a co-inventor of the cyclin-dependent kinase-4 inhibitor Ibrance® (palbociclib). He also established a research program in natural products total synthesis and chemical biology.
- toogood@umich.edu

Dr. Mustapha Beleh

- **Director of Education, Department of Medicinal Chemistry, University of Michigan College of Pharmacy**
- **Research Interests:** Dr. Beleh's research evaluates teaching tools and innovative teaching methods in Medicinal Chemistry courses, exploring the use of remedial education, evaluating curricular changes in the PharmD program and uncovering factors that predict student success.

PharmCAS WORKSHOP

The PharmCAS system is used in the submission of applications to PharmD programs. In this presentation, Katie Bruce, the Director of Application Services and Student Programs at the American Association of Colleges of Pharmacy, will describe the PharmCAS system and answer any questions you may have. Katie is responsible for the management, development, and oversight of PharmCAS. Attending this seminar is highly recommended for those intending on applying to pharmacy school.

CLINICAL PHARMACY CASE STUDIES

#1

In this interactive session, participants will contemplate real-life scenarios encountered as a clinical pharmacist. Attendees will engage in a small-group discussion with each of the three presenters for 17 minutes each, and will then switch to the next presenter, allowing the audience to have exposure to each of the presenters within the 50-minute round table. These case studies will be highly informative for those considering a career as a pharmacist.

Presenters

Dr. Lydia Benitez

- **PharmD:** University of Michigan College of Pharmacy
- **PGY1 Pharmacy** at University of Michigan; **PGY2 Oncology** at the University of Michigan
- **Hematology/Oncology Pharmacist and Adult Leukemia Clinic Specialist:** Michigan Medicine
- lbenitez@med.umich.edu

Dr. Amy Pasternak

- **PharmD:** Ohio Northern University
- **PGY1 Pharmacy** at Cleveland Clinic Hillcrest Hospital; **PGY2 Clinical Pharmacogenetics** at St. Jude's Children's Research Hospital; **Clinical Pharmacy Translational Fellow**, University of Michigan
- **Clinical Assistant Professor in Pharmacy:** University of Michigan College of Pharmacy
- amylp@med.umich.edu

Dr. Helen Berlie

- **PharmD:** Wayne State University
- **Associate Clinical Professor**, Eugene Appelbaum College of Pharmacy (Wayne State University)
- hberlie@wayne.edu



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PHARMACEUTICAL SCIENCE 101

Pharmaceutical Science is the discipline which develops drug delivery systems. Attendance at this panel is encouraged for those who are interested in pursuing a PhD and researching new methods of administering drugs.

Panelists

Dr. David Smith

- **John G. Wagner Collegiate Professor of Pharmaceutical Sciences:** University of Michigan
- **Research Interests:** During his career, Dr. Smith has made many important scientific contributions, including the determinants of renal drug elimination, the regional pharmacokinetics of anticancer drugs, and the cellular and molecular biology, physiology, and pharmacology of proton-coupled oligopeptide transporters.
- smithb@med.umich.edu

Dr. Duxin Sun

- **Charles Walgreen Jr. Professor of Pharmacy,** University of Michigan
- **Research Interests:** Dr. Sun researches nanomedicine and its impact on drug delivery. He is also interested in how drug optimization can alter tissue targeting and clinical dose/efficacy/toxicity. He has worked on the use of the Virus Spike Mimicry NanoVaccine (VSM NanoVac) to activate B cell immunity, as well as on an intubation and wireless sampling device in the human GI tract for microbiome analysis and drug product optimization.
- duxins@med.umich.edu

Dr. Anna Schwendeman

- **William I Higuchi Collegiate Professor of Pharmacy, University of Michigan**
- **Research Interests:** Her research focus is on the optimization of high-density lipoprotein (HDL) nanoparticles for treatment of atherosclerosis, sepsis, neurodegenerative diseases and drug delivery purposes. She was involved in discovery and translation of HDL drugs to Phase II clinical trials at Cerenis Therapeutics, Pfizer, and Esperion Therapeutics. Dr. Schwendeman is also a co-director of the FDA funded Center for Research on Complex Generics.
- annaschw@umich.edu

Zebedee Miller

- **Class of 2021, University of Michigan (B.S. in Pharmaceutical Science)**
- **Current PhD Student in Pharmaceutical Sciences, University of Illinois-Chicago**

INDUSTRY PANEL

This panel presents four University of Michigan alumni who work in the private, as opposed to the academic, sector. The panel discussion may be informative for those considering employment within the pharmaceutical industry rather than in a community pharmacy, hospital, or institution of higher learning.

Panelists

Dr. Binu Matthew

- **PharmD**, University of Michigan College of Pharmacy
- Currently a Director of the Midwest US Medical Team, Amgen
- Formerly a Senior Regional Medical Liaison, Sanofi-Aventis
- Formerly a Community Pharmacist, Rite Aid
- Formerly a Clinical Pharmacist, Mercy Health Critical Care

Dr. Barima Opong-Owosu Jr.

- **PharmD**, University of Michigan College of Pharmacy
- **PGY1** at Detroit Medical Center – Sinai Grace Hospital
- **Currently the Senior Medical Science Liaison** in Hematology, Global Blood Therapeutics
- **Formerly the Regional Medical Scientific Director**, Flexion Therapeutics
- **Formerly a Clinical Pharmacist**, Michigan Medicine
- **Formerly the Clinical Hospital Liaison** at Otsuka Pharmaceutical Companies
- **Formerly the Medical Science Liaison** at Mallinckrodt Pharmaceuticals

Dr. Lynnette Davis

- **PharmD**, University of Michigan College of Pharmacy
- **Currently a Medical Outcomes & Analytics Director**, Pfizer
- **Formerly a Medical Science Liaison Associate Director**, Boehringer Ingelheim
- **Formerly a Clinical Science Consultant**, Boehringer Ingelheim
- **Formerly a Community Pharmacist**, CVS Health

Dr. Daryl DePestel:

- **PharmD**: University of Michigan College of Pharmacy
- **PGY1** at Ascension St. John Hospital (Detroit); **PGY2 Infectious Diseases** at Michigan Medicine
- **Currently the Senior Director and Team Lead on Infectious Diseases and Vaccines**, Merck Research Labs
- **Formerly the Clinical Scientific Director**, Cubist Pharmaceuticals
- **Formerly the Clinical Pharmacist in Infectious Diseases and Co-Director of the Antimicrobial Stewardship Program**, Michigan Medicine

INTRO TO HEALTH SYSTEMS PHARMACY

Health Systems Pharmacy is a major branch of pharmacy practice whose practitioners work within institutions like hospitals or outpatient care facilities, rather than within the traditional pharmacy. If you are interested in pharmacy school, come learn about this exciting specialty from Dr. Paul Walker, the President-elect of the American Society of Health-System Pharmacists (ashp.org)!

Dr. Paul Walker



- President-elect of the American Society of Health-System Pharmacists
- Assistant Dean for Experiential Education, University of Michigan College of Pharmacy
- Clinical Professor, Department of Clinical Pharmacy, University of Michigan College of Pharmacy
- Manager of Pharmacy Patient Care Outcomes, Michigan Medicine

Education/Experience:

- **PharmD:** Wayne State University
- **Pharmacy Practice Residency:** Children's Hospital of Michigan (Detroit)
- **Post-doctoral Specialty Residency in Pediatric Pharmacy Practice:** University of Tennessee
- **Contact:** pcwalker@med.umich.edu

GRADUATE SCHOOL APPLICATION TIPS

If you are interested in applying to any kind of graduate or professional program, we highly recommend that you attend this panel! The panelists are all highly experienced professionals in the field of post-graduate applications and will provide helpful tips for you in pursuing this important endeavor.

Panelists

Matt Holliday, Ph.D.

- **Student Services Program Coordinator, University of Michigan College of Pharmacy.** As an academic advisor to undergraduate students in the B.S. in Pharmaceutical Science program, Dr. Holliday is well-versed in the steps needed for success in your applications! You can reach him at mhollid@med.umich.edu.

Katie Bruce

- **Director of Application Services and Student Programs, American Association of Colleges of Pharmacy.** As a lead administrator of the PharmCAS application system, she has expertise to help you successfully submit your application to pharmacy school.

Kristin Heinrich

- **Assistant Director of Admissions and Recruiting, University of Michigan College of Pharmacy.** As such, she has a wealth of advice from the perspective of the individuals who will be reading your pharmacy school applications! You can reach her at khein@umich.edu.

Cherie Dotson

- **Student Affairs Program Manager for Graduate Student Recruitment and Outreach, University of Michigan College of Pharmacy.** She has experience with the admissions process for Michigan's Ph.D. programs. You can reach her at crdotson@umich.edu.

CLINICAL PHARMACY CASE STUDIES #2

In this interactive session, participants will contemplate real-life scenarios encountered as a clinical pharmacist. Attendees will engage in a small-group discussion with each of the three presenters for 17 minutes each, and will then switch to the next presenter, allowing the audience to have exposure to each of the presenters within the 50-minute round table. These case studies will be highly informative for those considering a career as a pharmacist.

Presenters

Dr. Bernard Marini

- **PharmD:** University of Michigan College of Pharmacy
- **PGY1 Pharmacy** at University of Michigan; **PGY2 Oncology** at University of Michigan
- **Clinical Pharmacist Specialist in Hematology**, Michigan Medicine
- bernmari@med.umich.edu

Dr. Randolph Regal

- **PharmD:** University of Michigan College of Pharmacy
- **Clinical Associate Professor of Pharmacy (Adult Internal Medicine):** University of Michigan College of Pharmacy
- rereg@med.umich.edu

Dr. Amy Vandenberg

- **PharmD:** University of Michigan College of Pharmacy
- **PGY1 Pharmacy and PGY2 Psychiatry: Medical University of South Carolina**
- **Clinical Associate Professor of Pharmacy (Specialist in Psychiatry and Neurology):** University of Michigan College of Pharmacy
- amberg@med.umich.edu

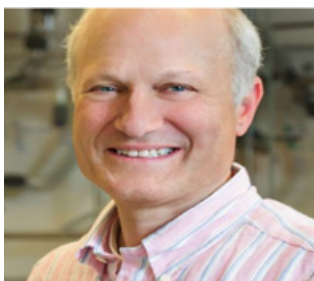
MEDICINAL CHEMISTRY RESEARCH

Featuring two separate talks: Intro to Natural Products Chemistry by David Sherman and Intro to Organic Chemistry by John Montgomery

Intro to Natural Products Chemistry

The plant and bacterial worlds contain a treasure trove of chemical compounds which bear the potential to treat many diseases for which cures are absent or less than optimal. Professor David Sherman is a leader in the field of discovering new drugs from nature, and his presentation on this topic will be interesting to those considering a career in drug development.

Dr. David Sherman



- President-elect of the American Society of Health-System Pharmacists
- Assistant Dean for Experiential Education, University of Michigan College of Pharmacy
- Clinical Professor, Department of Clinical Pharmacy, University of Michigan College of Pharmacy

- Manager of Pharmacy Patient Care Outcomes, Michigan Medicine

Education/Experience:

- **PharmD:** Wayne State University
- **Pharmacy Practice Residency:** Children's Hospital of Michigan (Detroit)
- **Post-doctoral Specialty Residency in Pediatric Pharmacy Practice:** University of Tennessee
- **Contact:** pcwalker@med.umich.edu

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Intro to Organic Chemistry

Organic chemistry is an important discipline for anyone interested in drug development and discovery. For those contemplating a career in these fields, this talk by Professor John Montgomery may be insightful.

Dr. John Montgomery



- Margaret and Herman Sokol Professor of Synthetic Chemistry, University of Michigan
- Arthur Thurnau Professor, Department of Chemistry, University of Michigan
- Director of the Michigan Chemistry-Biology Interface Training Program

Education/Experience:

- **PhD:** Colorado State University
- **American Cancer Society Postdoctoral Fellow:** University of California at Irvine
- **Contact:** jmontg@umich.edu; Lab Website

ALUMNI PANEL

What can someone do with a degree from the University of Michigan College of Pharmacy? Attend this panel of enthusiastic Michigan alumni to find out!



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Panelists

Dr. Alexandra Lin

- PharmD, University of Michigan College of Pharmacy
- PGY1 Managed Care at Prime Therapeutics, Bloomington, MN
- **Manager – Pharmacy Clinical Programs and Customer Support**, Blue Cross Blue Shield of Michigan
- ALin@bcbsm.com

Dr. Tony Lin

- **PharmD**, University of Michigan College of Pharmacy
- **PGY-1: Diplomat Specialty Pharmacy**
- **Currently a Clinical Pharmacist with Blue Cross Blue Shield of Michigan**
- **Formerly Pharmacist-in-Charge**, Diplomat Specialty Pharmacy

Noah Leja

- **PharmD**, University of Michigan College of Pharmacy
- **PGY-1: St. Joseph Mercy Hospital**
- **Clinical Pharmacy Specialist in Medication Use Policy**, Michigan Medicine

PHARMACEUTICAL SCIENCES RESEARCH

Featuring two separate talks: Injectable Biodegradable Polymer Depots by Steve Schwendeman and Nanomedicine in Cancer Immunotherapy by James Moon

Injectable Biodegradable Polymer Depots

Dr. Steven Schwendeman



- Chair of the Department of Pharmaceutical Sciences, University of Michigan College of Pharmacy
- Ara G. Paul Professor of Pharmaceutical Sciences, University of Michigan College of Pharmacy
- Professor of Biomedical Engineering, University of Michigan College of Engineering

- Advanced Materials and Drug Delivery Thrust Leader, The Biointerfaces Institute
- Co-Director, The BioInnovations in Brain Cancer Bioscience Initiative

Education/Experience:

- **PhD and MS in Pharmaceutics:** University of Michigan College of Pharmacy
- **Postdoctoral Fellow in Chemical Engineering:** Massachusetts Institute of Technology
- **Contact:** schwende@umich.edu; Lab Website

Intro to Nanomedicine

Nanomedicine is a growing field of research in pharmaceuticals, encompassing very small-scale drug delivery systems. Nanomedicine bears promise to improve the efficacy and safety of drugs. In this lecture, Professor James Moon will give a brief overview of this exciting area of research.

Dr. James Moon



- John Gideon Searle Professor in the Department of Pharmaceutical Sciences and Biomedical Engineering, University of Michigan

Education/Experience:

- **PhD in Bioengineering:** Rice University
- **Postdoctoral Associate in Materials Science and Engineering and Biological Engineering:** Massachusetts Institute of Technology
- **Contact:** moonjj@umich.edu; Lab Website

GRADUATE STUDENT PANEL

If you are interested in earning a PharmD or PhD, come hear from five current graduate students at The University of Michigan!

Panelists

Iris He

- **First-year PharmD student** at the University of Michigan College of Pharmacy; B.S. in Pharmaceutical Sciences from the University of Michigan
- **Extracurricular involvements as an undergrad:** member of Phi Delta Chi and Health-System Student Pharmacists (HSP), pharmacy technician at CVS Pharmacy
- **Current pharmacist intern** at CVS pharmacy
- Interested in a career in clinical pharmacy, particularly in the field of oncology, and hopes to pursue a residency after pharmacy school.

Abbie Leino

- **Ph.D. Candidate**, Clinical Pharmacy Translational Science program, University of Michigan College of Pharmacy
- **PharmD**, University of Michigan; **PGY1 residency** at the Johns Hopkins Hospital, **PGY2 solid organ transplant residency** at the Ohio State Wexner Medical Center.
- **Clinical research fellowship** at the University of Cincinnati Medical School.
- **Research interests**: identifying strategies to optimize immunosuppression regimens through the application of innovative therapeutic drug monitoring, clinical PK/PD modeling, and interventions to incorporate patient preferences and behaviors to design more effective dosing regimens with fewer adverse events.

Julianne Fava

- **3rd-year PharmD student**, University of Michigan College of Pharmacy.
- **B.S. in Cellular & Molecular Biology and Spanish**, University of Michigan.
- **Extracurricular involvements as an undergrad**: member of the Leadership Scholars Program, Rho Chi, Phi Lambda Sigma, Pharmacy Student Ambassadors, the COP Well-being Committee.
- **President of the UM chapter of the American Pharmacists Association-Academy of Student Pharmacists**
- Has experience in inpatient pharmacy and managed care; interested in pursuing a residency after graduation.

Meagan Dean

- **4th-year PharmD student**, University of Michigan College of Pharmacy.
- **B.S. in Pharmaceutical Sciences with honors**, UM COP, April 2018
- Heavily involved with improving mental wellness in her community: Megan was the President of UM COP's Chapter of American Pharmacists Association Academy of Student Pharmacists; continued her involvement with as **P4 Liaison**.
- **Other affiliations include**: a class representative within the Pharmacy Student Government Council, Phi Delta Chi, Phi Lambda Sigma. Meagan is working towards a residency post-graduation in April and, ultimately, a career in psychiatric pharmacy and academia.



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