SCHOOL OF PHARMACY

TRANSFORMED

CEDARVILLE UNIVERSITY.

Welcome From the Dean

What another great year in the School of Pharmacy! Pharmacy students and faculty helped transform their world in numerous ways.

Local Transformation

This May, we saw 41 graduates enter the pharmacy profession, nearly all of whom directly entered the workforce through full-time practice, residencies, and other opportunities. For 5+ years, about half of all graduates applied for residencies, and 80% were matched with amazing institutions.

Faculty continued to teach well, publish extensively, speak and present posters at many conferences, and serve the profession in numerous committees. The best part of these endeavors is that pharmacy students are included in many of these opportunities as well.

We are looking forward to starting the fall semester in just a few short weeks. Enrollment for this fall semester is up significantly from previous years, giving us a chance to make an even larger eternal impact through these future pharmacists.

Global Transformation

Students and faculty participated in many missions trips this year, caring for patients in a variety of countries around the globe. From India to Honduras, Dominican Republic to Springfield, patients were shown the love of Christ through exceptional care and sincere compassion.

Innovative Transformation of Healthcare

The Center for Pharmacy Innovation has begun partnering with a local pharmacy industry partner. Pharmacy students are now providing real-time pharmacovigilance services. These students are directly improving care of patients and getting paid intern wages to do so.

Another industry partner has contracted with the school to help prepare their research for publication. Additionally, this same company is partnering with Dr. Amos to conduct benchtop research of their products.

Nationally, great progress is being made related to provider status legislation. Pharmacists are closer than ever before to universally billing for pharmacist-provided clinical services. Cedarville faculty and leadership have been involved in numerous discussions to help ensure this incredibly important transformation occurs.

I think you will agree that there were so many truly good outcomes over the last academic year. We are grateful for God's hand of blessing on our school.

Our school has chosen five major areas of spiritual emphasis for our graduates. These help students remain focused not only on exceptional pharmacy education but also on the important ways they will impact their world eternally upon graduation. We hope you will reflect on these five key ways that God transforms our world through each of us. May God richly bless you as you serve the King of Kings!

Dean Bates

KINGDOM AMBASSADORS
(2 COR 5:20)

MINISTERS OF RECONCILIATION
(2 COR 5:18)

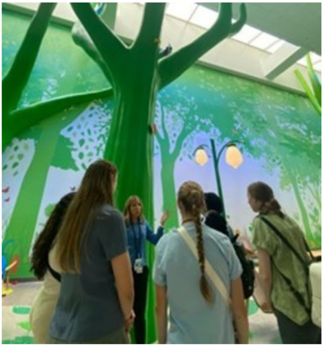
MESSENGERS OF THE GOSPEL
(2 COR 5:19)

ADORNERS OF GOD'S WORD
(TITUS 2:10)

DISPENSERS OF GOD'S MERCY
(1 PETER 4:10)

Transforming Students Locally

- Our final PGY-1 match rate for our 2024 graduates who pursued residency is 19/23 (82.6%). This is compared to the national average of roughly 76% for this year. Our PGY-2 match rate for this year was 100%.
- Our final PGY-1 residency match rate has exceeded the national average in eight out of nine years (2016–present).
- 41 students graduated from the CUSOP in May, making it the 9th graduating class and bringing the CUSOP **alumni** network to 378.
- The CUSOP welcomed back our recent graduates for NAPLEX-week review and were pleased to provide several of these individuals and one faculty member with the following CUSOP awards:
  - Award for Impact in Pharmacy Service to CUSOP: **Dr. Jolie Elzahaby**
  - Award for Impact in Pharmacy Service to the Underserved: **Dr. ND Nguyen**
  - Award of Innovation in Pharmacy Practice: **Dr. Ruth Pereira**
  - Award for Outstanding Performance on APPE Rotations: **Dr. Adeola Balogun**
  - Faculty Award for Distinguished Graduating Student: **Dr. Ekene Obi**
  - Faculty Award for Distinguished Graduating Student: **Dr. Huanyun Duan**
  - Prasco Achievement Award: **Dr. Rachel Bredeson**
  - Viatris Award: **Dr. Kyrie Baden**
  - P4 Distinguished Faculty of the Year: **Dr. Tim Veenstra**



Pharmacy Camp

We had an outstanding week at Pharmacy Camp this past June! Campers earned their Stop the Bleed training certificates and presented innovative pharmacy ideas to industry professionals. Additionally, the students had the opportunity to tour Nationwide Children's Hospital, guided by Cedarville alumna Dr. Megan McNicol ’17.

Transforming Patient Lives Globally

Medical Missions Trips 2023–24

GOTRANSFORM
REFLECT-CELEBRATE-GO
Mark 16:15 - Go into all the world and preach the gospel to every creature.

In April, we hosted our second annual GO Transform event. During this event, students participated in a poster session, sharing their experiences from various medical mission trips undertaken throughout the 2023–24 academic year. It was inspiring to learn about the significant impact our students and alumni are making worldwide as they provide healthcare services to underserved communities. A total of 46 students presented at the event, showcasing their work in 15 unique locations:

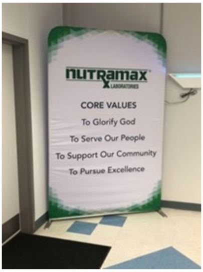
- Cahaba Medical Center: Alabama
- Camp Evangel: Virginia
- Carting Partners: Guatemala
- Delhi Bible Institute: India
- Dominican Republic
- Health Partners Free Clinic: Troy, OH
- King’s Daughters Medical Center

- Malawi
- Niger: Samaritan's Purse
- MMI: Peru
- Santiago Partnerships: Ecuador
- Shriver's Pharmacy & Wellness: Athens, OH
- Saint Vincent de Paul: Cincinnati, OH
- Sunshine Camp: Kentucky Mountain Mission
- Tuba City Regional Healthcare: AZ

Additionally, a panel of faculty members who participated in these trips shared insights on the importance of missions and the role of Christian pharmacy students in spreading the Gospel through their unique gifts.

Lucy Malmberg Scholarships

Lucy Malmberg and the Malmberg Foundation have been instrumental in providing student support through scholarships and grants to bring about transformation in the lives of students for God's glory. To date, 53 pharmacy students have been impacted by the generosity of Lucy Malmberg, totaling over $326,000. Many more students will be impacted by the $1 million dollar gift that was provided in 2023. One student writes, "Because of Dr. Malmberg's generosity, I was able to stay in the pharmacy program when my family and I fell on hard times financially due to the economic crisis back in my home country. Your gift has been transformational and will help me meet my end goal of going back to help the people of my country." We look forward to continuing our partnership with Dr. Malmberg and the Malmberg Foundation to impact students' lives, which will impact patient's lives and transform the world for the cause of Christ.



Nutramax Partnership

Our continued partnership with Nutramax Laboratories helps us to transform lives both globally and innovatively. Funds provided by Nutramax allow our students to engage in global missions, serving people through their profession. Last year, 46 students went out on missions trips locally, nationally, and globally. Additionally, Nutramax partnered to support our research at Cedarville, providing us the opportunity to engage 100% of our students in research projects during their PharmD program. We look forward to continuing the partnership with the Nutramax-funded Health Outcomes Fellowship, beginning in July 2024. Kyrie Baden '24 will join us as a fellow. Thank you, Dr. Bob Henderson and the entire team at Nutramax, for your support and partnership!

Meet the Black Family

We are incredibly grateful for the Black family and the countless ways that they have impacted our School of Pharmacy and Cedarville University!

ONE THOUSAND DAYS TRANSFORMED

Transforming Healthcare Innovatively

Center for Pharmacy Innovation

The DISRxUPT podcast is making a difference! We have nearly 40 published episodes ranging from novel pharmacy entrepreneurial endeavors and medical missions to artificial intelligence. The interesting thing about the podcast is that the majority of our guests are from outside of Cedarville, exposing our listeners to innovation throughout the world. Below are some key statistics related to the podcast. Give us a listen and leave a positive review!

DISRxUPT
CEDARVILLE UNIVERSITY
CENTER FOR PHARMACY INNOVATION
EPISODE 37
PHARMACY FIRST IN THE UK
KIMBERLY SONNEX

- 37 published episodes
- Apple podcast is the most common listening platform
- Listeners from 47 of 50 states
- Listeners from 56 countries
- 12.19% of listeners are international

Primary care services worldwide are stretched thin, but guess who's stepping up? Pharmacists!

In our latest episode, we dive into the Pharmacy First service in the UK. Through this initiative, patients can consult their friendly community pharmacist directly for minor ailments and self-limiting illnesses. They can get personalized advice, diagnostics, and even certain medications, no prescription needed!

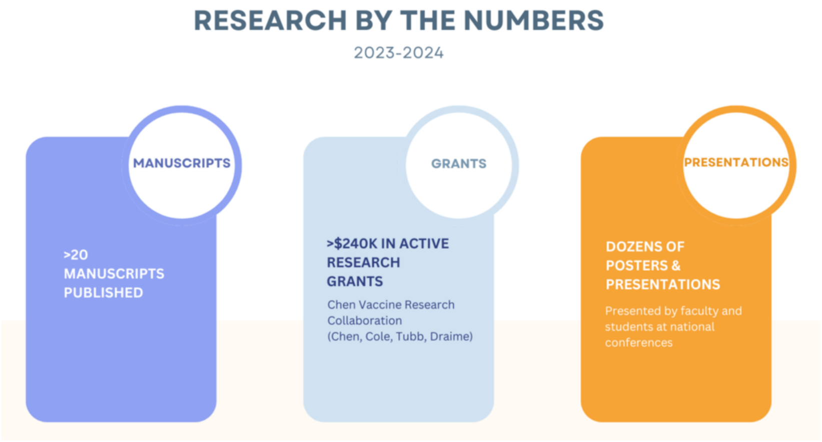
Our guest, Dr. Kimberly Sonnex, is a UK-registered pharmacist and assistant professor at the University of Nottingham. She is also part of the team analyzing outcomes related to the Pharmacy First service. Listen as she navigates the waters of the Pharmacy First service and describes how pharmacies can be the first "port of call" for short-term and self-limiting illnesses!

We launched the pharmacovigilance call center in late April. This is a work/study opportunity for current Cedarville PharmD students. We have partnered with Prasco, the largest U.S. distributor of generic medications, to assist in fielding calls from patients when they are having problems with their medication, such as an inhaler not working properly. In the first two full months, we answered over 180 calls. The students working the phones have done an excellent job honing their critical thinking and customer service skills. We are excited to expand this program as opportunities align!

We are also excited about the development of the Master of Arts in Innovation's new Healthcare Innovation track, which will be offered this coming fall. Dr. Chen and Dr. Cole were instrumental in creating and updating the healthcare track that was being offered in the MBA program to be applicable to both the MA in Innovation as well as the MBA program. We believe that the PharmD graduates that include the MA in Innovation will be set apart as thought leaders and changemakers upon graduation! The MA in Innovation is also a stand-alone program that can be pursued even after completing pharmacy education.

Listen to DISRxUPT

Faculty Research



RESEARCH BY THE NUMBERS

2023-2024

MANUSCRIPTS

>20 MANUSCRIPTS PUBLISHED

GRANTS

>$240K IN ACTIVE RESEARCH GRANTS

Chen Vaccine Research Collaboration
(Chen, Cole, Tubb, Draime)

PRESENTATIONS

DOZENS OF POSTERS & PRESENTATIONS

Presented by faculty and students at national conferences

2024 Rufus A. Lyman Award from AACP

Dr. Aleda Chen, Associate Dean of the Cedarville University School of Pharmacy, was awarded the 2024 Rufus A. Lyman Award from the American Association of Colleges of Pharmacy — AACP. This honor recognizes Chen's 2023 research paper, which was also named the best published paper by the American Journal of Pharmaceutical Education.

Breaking Barriers: Dr. Amos' Cancer Research

Dr. Samson Amos, faculty at Cedarville's school of pharmacy, asked God to use him to help the world understand cancer. Through breakthrough research alongside Cedarville's Doctor of Pharmacy students, that prayer is becoming a reality. Read this Cedarville PR story to see how Dr. Amos' research has developed over the years and how he's training students not only to be successful clinicians but to carry Christ into their work for the rest of their lives.

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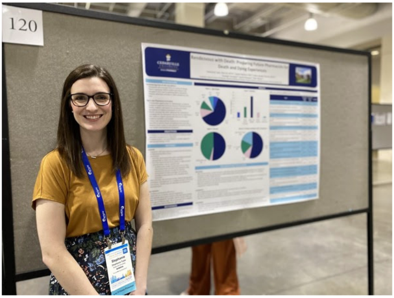
Differences in Student and Faculty Ratings of Empathy in a Simulated Patient Encounter

2023–24 AACP Social and Administrative Sciences (SAS) Best Poster Award

Ben Storey, Pharm.D. candidate '27, has been honored with the AACP Social and Administrative Sciences (SAS) Section Best Poster Award for his research poster titled "Differences in Student and Faculty Ratings of Empathy in a Simulated Patient Encounter."

AACP Annual Conference Presentations

Our faculty presented their most recent research at AACP's annual conference in Boston this past month. To read more about research in the CUSOP, please visit our Digital Commons library.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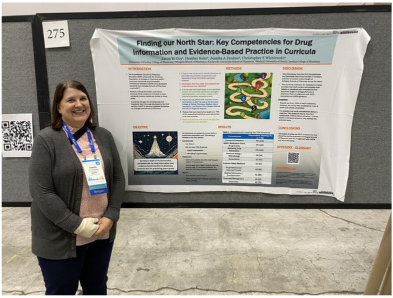
Rendezvous with Death: Preparing Future Pharmacists for Death and Dying Experiences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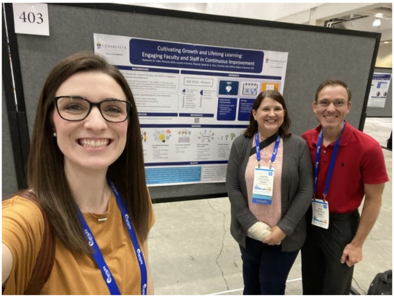
Finding our North Star: Key Competencies for Drug Information and Evidence-Based Practice in Curricula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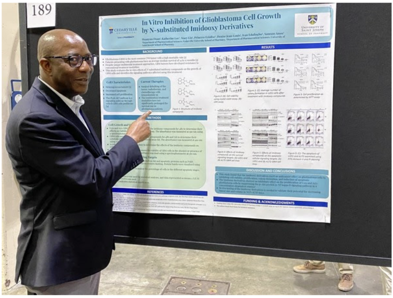
Cultivating Growth and Lifelong Learning: Engaging Faculty and Staff in Continuous Improvement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In Vitro Inhibition of Glioblastoma Cell Growth by N-substituted Imidooxy Derivatives

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In Closing

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