

2024 Impact Report



Annual Report 8 Engagement Metrics

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A Message from PharAlliance Staff



Dear PharmAlliance Family,

As we approach the 10th anniversary of this remarkable partnership, it's the perfect moment to celebrate the incredible progress made together in advancing pharmacy education, research, and practice through relentless collaboration and innovation. Together, we have published over 130 peer-reviewed manuscripts delivered more than 60 presentations and conferences globally. We have facilitated 176 student exchanges, both in person and virtually, and awarded over \$30,000 USD in seed funding and collaborative grants through our internal funding models. Our new initiatives, like the design thinking workshops, have harnessed our diverse perspectives to tackle pressing issues, empowering our researchers in areas such as opioid use disorders, mental health and pandemic preparedness. Looking ahead, we remain steadfast in our mission to cultivate innovative ideas and our vision of transforming pharmacy education, practice and research worldwide. The strong foundation we have built positions us to continue to make significant strides in our field and to improve human health.

Sincerely.
Sophia Mortha, PharmD
PharmAlliance Program Coordinator





About PharmAlliance



Mission & Vision

- Mission: To cultivate and pursue innovative ideas with a focus on big problems and opportunities that member institutions could not address alone.
- Vision: To transform pharmacy education, practice, and research worldwide.

Strategic Priorities

- Collaborative global educational opportunities in both pharmacy and pharmaceutical sciences
- Joint advocacy for pharmacy practice and practice models, facilitated through building a strong communications network
- Supporting and developing our global community
- Scholarship to support targeted, strategic global health missions in areas of critical mass and strength within our schools, including but not limited to
- drug discover and development in antimicrobial resistance, pandemic readiness and responsiveness
- underpinning science and translational research relating to neurological and neuropsychiatric disorders
- pharmacoepidemiology and population studies in relation to medicines safety and usage
- development of biologics (e.g., gene and cellular therapies)

Commuity Guidelines

- Mission: To ensure a culture where diversity of thought, background and perspective is welcomed in our partnership's collective pursuit of innovative ideas and solutions
- Vision: Aspire to be worldwide leaders in equity in pharmacy and pharmaceutical sciences education, practice and research through our commitment to diverse and inclusive practices
- Community Guidelines and Commitments:
- PharmAlliance proactively seeks and values the perspectives and ideas of all its members in our collective pursuit of innovative ideas and solutions to big problems. This includes all roles, genders, races, ethnicities, religions, ages, sexualities, physical abilities, sexual identities, and cultural and geographical backgrounds
- Our EDI events, initiatives, and opportunities are designed to be accessible by all faculty, staff, and students from each institution
- PharmAlliance promotes advancement of research, teaching and career development for all, especially those underrepresented, marginalized and/or systemically and historically discriminated against.
- PharmAlliance embeds cross-cultural interactions and encourages appreciation of cultural or other differences.
- PharmAlliance values the thoughts and criticism of its community to constantly improve our approach to diversity, equity and inclusion.
- Specifically, PharmAlliance commits to:
- Diverse and inclusive panels, conference speakers, leadership, research promotion, and funding
- Equitable and inclusive access to events and materials. This includes, but is not limited to, consideration of time zones and core work hours, leave/vacation policies, holidays and religious observations, in-person event accessibility (travel, financial, physical requirements), accessible communication formats, remote or delayed engagement methods, invitations to collaborate, differences in technology platforms, closed captioning needs, interpreter or translator needs
- Recognition of historically marginalized populations in our initiatives, discussions, educational sessions, and research
- Purposeful engagement with cultural and other differences, as well as their historical impacts on pharmacy and pharmaceutical sciences, during initiatives and activities
- Continuous quality improvement in our pursuit of these community standards through feedback from staff, faculty, students, and our external audiences



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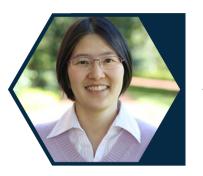




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BY THE NUMBERS: 2015 - 2024



PUBLICATIONS: 133

SCIENTIFIC POSTERS: 25



STUDENT EXCHANGES: 176



PRESENTATIONS: 65



GRANTS AWARDED: 45

Events - June '23 - June '24 PHARMALLIANCE WEEK 2023

Date	Title	Sponsoring Domain	
9 July 2023	PharmAlliance Week 2023: Keynote Address	Leadership	
9 July 2023	Core Concepts in Pharmacology, Medicinal Chemistry and Beyond (Part 1)	Education	
10 July 2023	Signature Session 1 - Mental Health, Well-being, and Profile Snapshots Part 1	Leadership	
10 July 2023	Signature Session 2 - Mental Health, Well-being, and Profile Snapshots Part 2	Leadership	
10 July 2023	Signature Session 3 - Research Perspective on Mental Health	Research	
10 July 2023	Research Domain Monthly General Meeting	Research	
10 July 2023	Education Domain Monthly General Meeting	Education	
10 July 2023	Practice Domain Monthly General Meeting	Practice	
10 July 2023	COVID-19 Pandemic Lessons Learned Summit	Student	
10 July 2023	Entrustable Professional Activities (EPAs) for Pharmacy Student Research Training	Education	
11 July 2023	Signature Session 4 - Education, Practice, and Student Perspectives on Student Well-Being	Education, Practice, Student	
11 July 2023	Research Seminar 1 - Nucleic Acid Therapeutics	Research	
11 July 2023	Research Seminar 2 - Mental Health	Research	

Events - June '23 - June '24 PHARMALLIANCE WEEK 2023

Date	Title	Sponsoring Domain		
11 July 2023	Building a Curriculum for Resilience and Well-being	Education		
11 July 2023	Teaching of Mental Health Conditions	Education		
11 July 2023	Academic Misconduct and ChatGPT	Education		
11 July 2023	Student Skills Development	Student		
11 July 2023	How Can I Help Series - Global Crises and the Effects on Personal and Professional Development and Wellness	Student		
11 July 2023	Student Domain Project - GLIDE	Student		
11 July 2023	Practice Research Talks	Practice		
11 July 2023	Avenues to Disseminate Research Findings to Practice, Policy, and Consumers	Practice		
11 July 2023	11 July 2023 Practice Domain Working Group Discussion			
12 July 2023	Signature Session 5 - PharmAlliance Domain Perspectives (Panel)	Leadership		
12 July 2023	Signature Session 6 - Consumer Engagement Research from a Multi- Domain Perspective	Practice		
12 July 2023	Core Concepts in Pharmacology, Medicinal Chemistry and Beyond (Part 2)	Education		

Events - June '23 - June '24

Date	Title	Sponsoring Domain		
10 October 2023	Communication Tools & Techniques: Infographics as Communication Tools	Practice		
01 November 2023	PARCDT Information Session	Education		
08 November 2023	ECR Showcase: Tools and Techniques	Research		
23 February 2024	Communication Tools & Techniques: Amplifying the Patient Voice	Practice		
13 March 2024	Communication Tools & Techniques: Reaching the Policy Maker Practic			
19 March 2024	Leveraging Differences for Solutions: Assessing Impacts of High-Risk Medication Deprescribing	Leadership		
16 April 2024	Leveraging Differences for Solutions: Improving Access to Highly Stigmatized Medications	Leadership		
01 May 2024	E-Symposium Day 1	Research		
02 May 2024	E-Symposium Day 2	Research		
29 May 2024	Leveraging Differences for Solutions: Creating and Coordinating Community Partnerships to Address Vaccine Hesitancy	Leadership		

TOTAL NUMBER OF EVENTS FROM JUNE 2023 - JUNE 2024 = 35 EVENTS





EDUCATION DOMAIN = 8



PRACTICE
DOMAIN = 9



STUDENT
DOMAIN = 5



LEADERSHIP = 5

UNC

Engagement

""No one has the market on excellence. We need each other to be better." - Stephen Eckel





"Pharmacy academia must play a leading role in fighting misinformation & disinformation" - Oksana Pyzik UCL



"Strategic discussions around collaborative opportunities for the coming year are energizing!"

- Angela Kashuba UNC



MONASI University

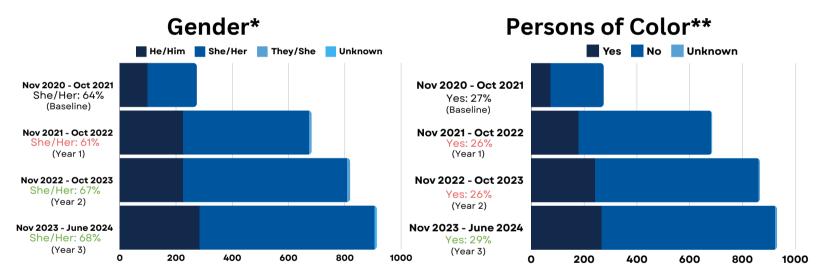
"Always good to catch up with lovely friends and colleagues." - Jenni Ilomaki Monash

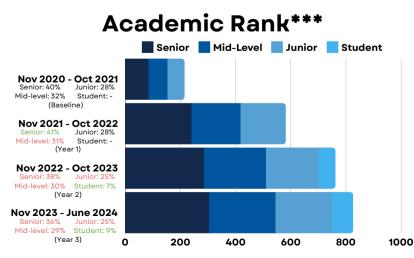
X/Twitter Metrics



	September 2022	June 2023	June 2024
Followers	483	557	639

PharmAlliance created and released Diversity, Equity, and Inclusion (DEI - CGC) Community Guidelines and Commitments in late 2021. The following data characterize some of the ways we promote, recognize, and support people across the Partnership through our social media. These figures compare "X/Twitter" data before and after implementation of the DEI - CGC. The Year 3 period is still ongoing and data represented is before June 2024





*Gender - determined from pronouns used in online publications or in email signatures. "Unknown" used if pronouns not found.

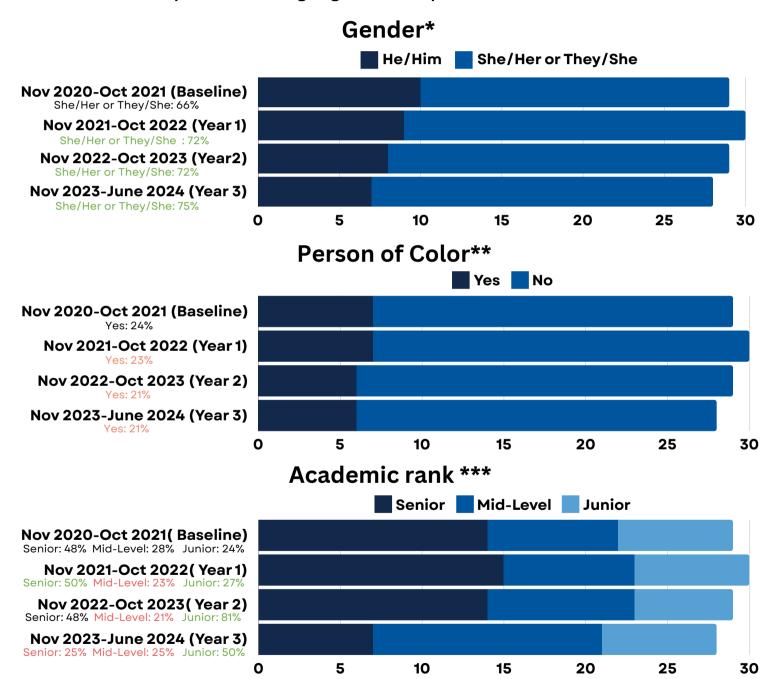
**"Person of color" or "POC" designations were assumptions made by student/staff researchers, two of which was a POC, based on photos available online.
"Unknown" was assigned if no photos were found.
***Junior: Assistant Professor, Lecturer, Level A-C, Professional Services Staff. Mid-level: Associate Professor, Senior Lecturer, Reader, Level D, Director. Senior: Professor, Dean, Chair, Faculty/ Divisional/Departmental Manager, Level E

PharmAlliance Twitter

Leadership Composition Metrics



PharmAlliance created and released Diversity, Equity, and Inclusion (DEI - CGC) Community Guidelines and Commitments in late 2021. The following data characterize some of the ways we promote, recognize, and support people across the Partnership through our leadership and speaker composition. These figures compare data before and after implementation of the DEI - CGC. The Year 3 period is still ongoing and data represented is before June 2024



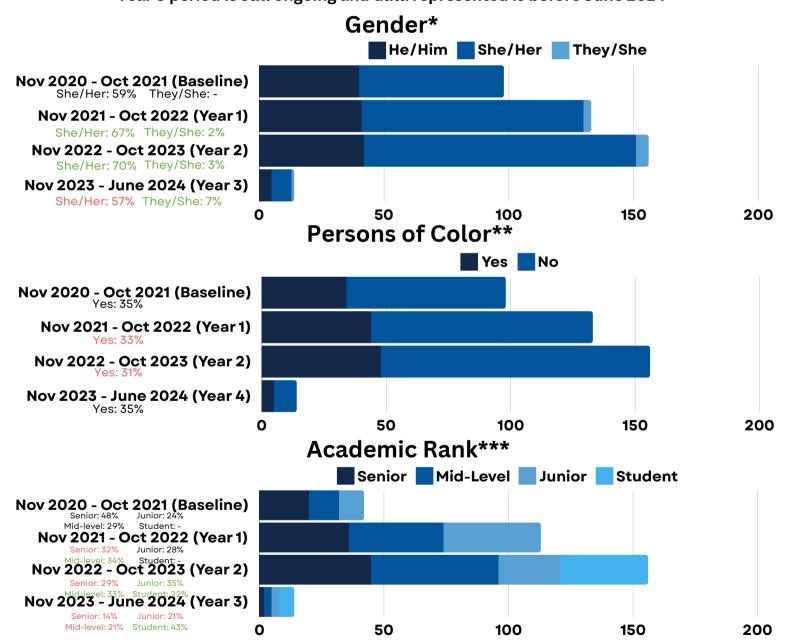
^{*}Gender - determined from pronouns in online publications or in email signatures. "Unknown" used if pronouns not found.
**"Person of color" or "POC" designations were assumptions made by student/staff researchers, two of which was a POC, based on photos available online. "Unknown" was assigned if no photos were found online.

***Junior: Assistant Professor, Lecturer, Level A-C, Professional Services Staff. Mid-level: Associate Professor, Senior Lecturer, Reader, Level D, Director. Senior: Professor, Dean, Chair, Faculty/ Divisional/Departmental Manager, Level E

Speaker Composition Metrics



PharmAlliance created and released Diversity, Equity, and Inclusion (DEI - CGC) Community Guidelines and Commitments in late 2021. The following data characterize some of the ways we promote, recognize, and support people across the Partnership through our leadership and speaker composition. These figures compare data before and after implementation of the DEI - CGC. The Year 3 period is still ongoing and data represented is before June 2024



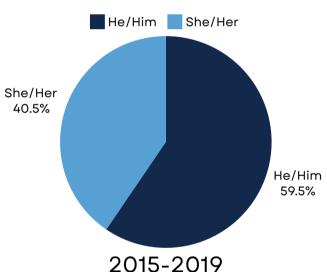
^{*}Gender - determined from pronouns in online publications or in email signatures. "Unknown" used if pronouns not found.
**"Person of color" or "POC" designations were assumptions made by student/staff researchers, two of which was a POC, based on photos available online. "Unknown" was assigned if no photos were found online.

^{***}Junior: Assistant Professor, Lecturer, Level A-C, Professional Services Staff. Mid-level: Associate Professor, Senior Lecturer, Reader, Level D, Director. Senior: Professor, Dean, Chair, Faculty/ Divisional/Departmental Manager, Level E

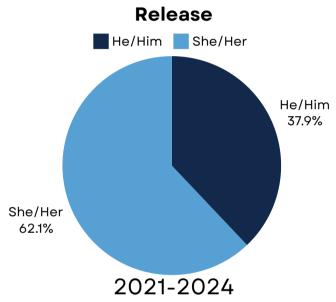
Grant Awardee Composition Metrics

Gender

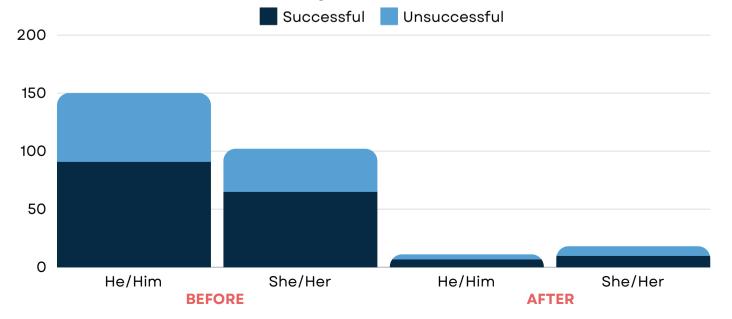




PharmAlliance Grant Applicants AFTER Community Guidelines



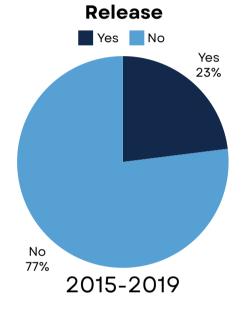
PharmAlliance Grant Applicants Before and After Community Guidelines Release



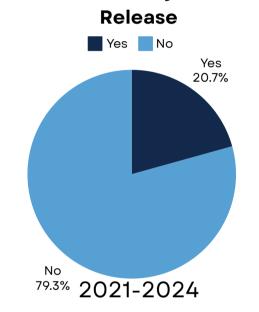
Grant Awardee Composition Metrics

Person of Color

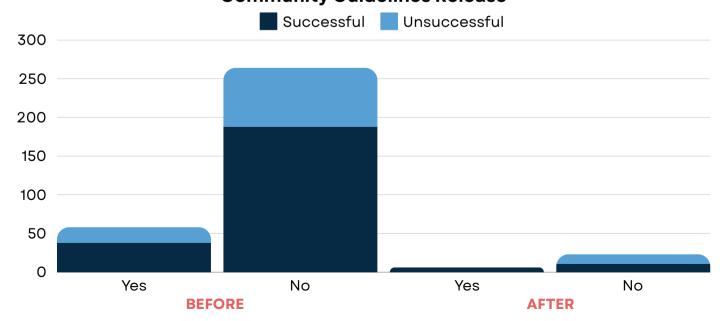
PharmAlliance Grant Applicants
BEFORE Community Guidelines



PharmAlliance Grant Applicants
AFTER Community Guidelines



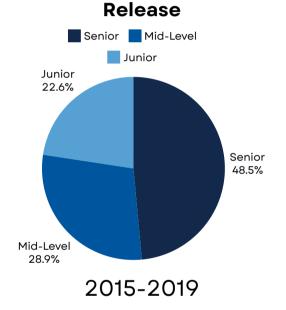
PharmAlliance Grant Applicants Before and After Community Guidelines Release



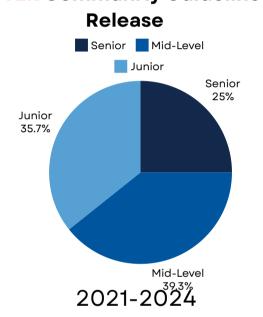
Grant Awardee Composition Metrics

Academic Rank

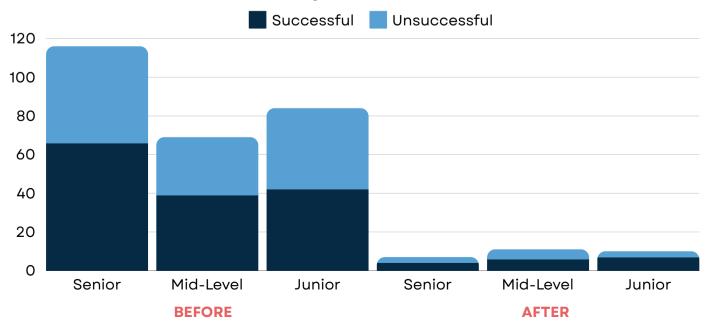
PharmAlliance Grant Applicants
BEFORE Community Guidelines



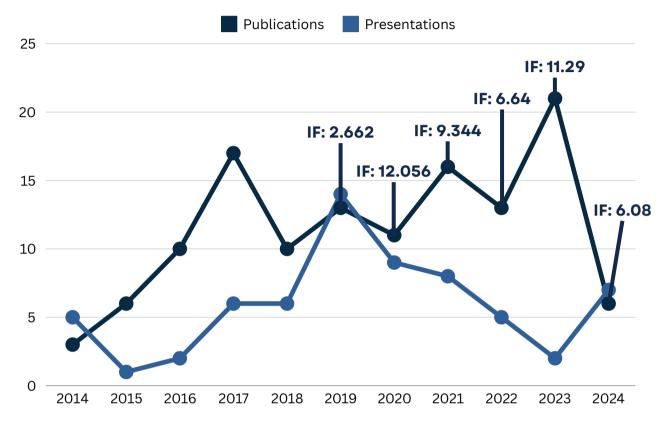
PharmAlliance Grant Applicants
AFTER Community Guidelines



PharmAlliance Grant Applicants Before and After Community Guidelines Release



Research Outputs











2024 Publications

- 1. Bonate PL, Barrett JS, Ait-Oudhia S, et al. Correction to: Training the next generation of pharmacometric modelers: a multisector perspective. *J Pharmacokinet Pharmacodyn.* 2024;51(1):89.
- 2. Guilding C, White PJ, Cunningham M, et al. Defining and unpacking the core concepts of pharmacology: A global initiative [published correction appears in Br J Pharmacol. 2024 Apr;181(7):1150. doi: 10.1111/bph.16324]. Br J Pharmacol. 2024;181(3):375-392
- 3. Hussein M, Sun Z, Hawkey J, et al. High-level nitrofurantoin resistance in a clinical isolate of Klebsiella pneumoniae: a comparative genomics and metabolomics analysis. *mSystems*. 2024;9(1):e0097223.
- 4. Nang SC, Lu J, Yu HH, et al. Phage resistance in Klebsiella pneumoniae and bidirectional effects impacting antibiotic susceptibility. *Clin Microbiol Infect*. 2024;30(6):787-794.
- 5. Servais L, Day JW, De Vivo DC, et al. Real-World Outcomes in Patients with Spinal Muscular Atrophy
 Treated with Onasemnogene Abeparvovec Monotherapy: Findings from the RESTORE Registry. *J*Neuromuscul Dis. 2024;11(2):425-442.
- 6. Bonate PL, Barrett JS, Ait-Oudhia S, et al. Training the next generation of pharmacometric modelers: a multisector perspective [published correction appears in J Pharmacokinet Pharmacodyn. 2024 Feb;51(1):89. doi: 10.1007/s10928-023-09885-5]. *J Pharmacokinet Pharmacodyn.* 2024;51(1):5-31.





I 2023 Publications

- 1. White PJ, Guilding C, Angelo T, et al. Identifying the core concepts of pharmacology education: A global initiative. *British J Pharmacology*. 2023;180(9):1197-1209.
- 2. Wells C, Liang Y, Pulliam TL, et al. Sgc-camkk2-1: a chemical probe for camkk2. Cells. 2023;12(2):287.
- 3. Ackloo S, Antolin AA, Bartolome JM, et al. Target 2035 an update on private sector contributions. *RSC Med Chem.* 2023;14(6):1002-1011.
- 4. McLaughlin JE, Angelo TA, White PJ. Validating criteria for identifying core concepts using many-facet rasch measurement. *Front Educ.* 2023:8.
- 5. Hanafin PO, Abdul Rahim N, Sharma R, et al. Proof-of-concept for incorporating mechanistic insights from multi-omics analyses of polymyxin B in combination with chloramphenicol against Klebsiella pneumoniae. CPT Pharmacom & Syst Pharma. 2023;12(3):387-400.
- 6. Lu J, Zhu Y, Parkington HC, et al. Transcriptomic mapping of neurotoxicity pathways in the rat brain in response to intraventricular polymyxin b. *Mol Neurobiol*. 2023;60(3):1317-1330.
- 7. Hanafin PO, Kwa A., Zavascki A.P., et al. A population pharmacokinetic model of polymyxin B based on prospective clinical data to inform dosing in hospitalized patients. *Clinical Microbiology and Infection*. 2023;29(9):1174-1181.
- 8. Koh AJJ, Thombare V., Hussein M., et al. Bifunctional antibiotic hybrids: A review of clinical candidates. *Front Pharmacol.* 2023:14:1158152.
- 9. Negoita F, Addinsall AB, Hellberg K, et al. CaMKK2 is not involved in contraction-stimulated AMPK activation and glucose uptake in skeletal muscle. *Mol Metab.* 2023;75:101761.
- Burke RE, Pelcher L, Tjader A, et al. Central Nervous System-Active Prescriptions in Older Veterans: Trends in Prevalence, Prescribers, and High-risk Populations. J Gen Intern Med. 2023;38(16):3509-3516.
- 11. Proud CM, Mercuri E, Finkel RS, et al. Combination disease-modifying treatment in spinal muscular atrophy:

 A proposed classification. *Ann Clin Transl Neurol.* 2023;10(11):2155-2160.
- 12. Hussein M, Jasim R, Gocol H, et al. Comparative Proteomics of Outer Membrane Vesicles from Polymyxin-Susceptible and Extremely Drug-Resistant Klebsiella pneumoniae. *mSphere*. 2023;8(1):e0053722.
- 13. Guilding C, Kelly-Laubscher R, Netere A, et al. Developing an international concept-based curriculum for pharmacology education: The promise of core concepts and concept inventories. *Br J Clin Pharmacol*. Published online December 13, 2023.
- 14. International League Against Epilepsy Consortium on Complex Epilepsies. GWAS meta-analysis of over 29,000 people with epilepsy identifies 26 risk loci and subtype-specific genetic architecture. *Nat Genet*. 2023;55(9):1471-1482.
- 15. Zerbato JM, Avihingsanon A, Singh KP, et al. HIV DNA persists in hepatocytes in people with HIV-hepatitis B co-infection on antiretroviral therapy. *EBioMedicine*. 2023;87:104391.
- 16. Hussein M, Allobawi R, Zhao J, et al. Integrated Transcriptomic and Metabolomic Mapping Reveals the Mechanism of Action of Ceftazidime/Avibactam against Pan-Drug-Resistant Klebsiella pneumoniae. ACS Infect Dis. 2023;9(12):2409-2422.
- 17. Zhao J, Zhu Y, Han ML, et al. Model-informed dose optimisation of polymyxin-rifampicin combination therapy against multidrug-resistant Acinetobacter baumannii. *Int J Antimicrob Agents*. 2023;62(3):106902.
- Klug DM, Tse EG, Silva DG, et al. Open Source Antibiotics: Simple Diarylimidazoles Are Potent against Methicillin-Resistant Staphylococcus aureus. ACS Infect Dis. 2023;9(12):2423-2435.
- 19. McCormack S, Cottrell ML. Optimising oral PrEP while awaiting long-acting cabotegravir. *Lancet HIV*. 2023;10(11):e694-e695.
- 20. Nang SC, Lin YW, Petrovic Fabijan A, et al. Pharmacokinetics/pharmacodynamics of phage therapy: a major hurdle to clinical translation. Clin *Microbiol Infect*. 2023;29(6):702-709.
- 21. Klug DM, Tse EG, Silva DG, et al. Open Source Antibiotics: Simple Diarylimidazoles Are Potent against Methicillin-Resistant Staphylococcus aureus. *ACS Infect Dis.* 2023;9(12):2423-2435.





| 2024 Anticipated | Presentations & Posters

- 1. Kathryn M, Jacqueline M, Walker S, Galbraith K, Kirkpatrick C. Research-Ready Pharmacists: The Development of Research Entrustable Professional Activities (EPAs) for Practicing Pharmacists. Anticipated to be presented at the American Association of Colleges of Pharmacy Annual Meeting. July 2024. Boston, MA.
- 2. Rhoney D, Galbraith K, re:Global World Cafe on Competence-Based Education. Anticipated to be presented at the American Association of Colleges of Pharmacy Annual Meeting. July 2024. Boston, MA.
- 3. Brown L, Mak V, Kebodeaux C. Beyond the Script: Al Innovations in Pharmacy Education Assessments.

 Anticipated to be presented at the American Association of Colleges of Pharmacy Annual Meeting. July 2024.

 Boston, MA.
- 4. Goordeen D. Multimorbidity and Medication Overload in People Living with Dementia. PharmAlliance Week 2024.

 June 2024. Chapel Hill, NC.
- 5. Goordeen D. Do Type 2 Diabetes Clinical Practice Guidelines Consider Older Adults, Those Living with Dementia, Frailty or Receiving End of Life Care? A Systematic Review of the Western Pacific. Anticipated to be presented as a poster presentation at the 2nd International Conference on Deprescribing (ICOD), Nantes France (September 2024)
- 6. Ryan Woodring, Mathilde Ullrich Development of controlled release immunostimulatory biomaterials for cancer therapy. PharmAlliance Week 2024. June 2024. Chapel Hill, NC.
- 7. Woodring R. Tuning an Immune Response with Ace-DEX Scaffolds in Post-Operational Glioblastoma. Anticipated to be presented at 2024 Drug Carriers in Medicine and Biology, Gordon Research Seminar & Conference, University of Southern Maine, August 3-9, 2024





PharmAlliance Research Clusters for Doctoral Training (PARCDT) Funding Scheme





PARCDT 2021 GRANTS

3 APPLICATONS - 1 GRANT AWARDED

 Multimorbidity and medication overload in people living with dementia: building capacity in international multi-database medication safety and effectiveness research

WALLIS LAU (UCL). PROF. SIMON BELL (MONASH), DR. JOSHUA NIZNIK (UNC)



PARCDT 2022 GRANTS

4 APPLICATONS - 2 GRANTS AWARDED

 Enhancing translatability of preclinical drug discovery models for dementia and associated neuropsychiatric symptoms

AFFA ALI (UCL) AND KAREN GREGORY (MONASH)

• Combination immunotherapies for glioblastoma

KAROLINA DZIEMIDOWICZ (UCL), KRISTY AINSLIE (UNC), AND KRISTIAN KEMPE (MONASH)



PARCDT 2023 GRANTS

2 APPLICATONS - 1 GRANT AWARDED

 Addressing Challenges of Affinity, stability, and Delivery in Aptamer-based therapies for lungspecific diseases

DR. RIHE LIU (UNC), DR. CHRISTOPHER SERPELL (UCL), AND DR. JIE TANG (MONASH)







BY THE NUMBERS

28 PRESENTERS TOTAL - 14 MONASH, 6 UCL, 8 UNC PREVIOUS YEARS:

2022: 23 PRESENTERS TOTAL - 11 MONASH, 6 UCL, 6 UNC 2021: 17 PRESENTERS TOTAL - 12 MONASH. 3 UCL, 2 UNC

WINNERS OF GRADUATE RESEARCH E-SYMPOSIUM 2024

- 1st place: Nicole Lukesh (UNC) for her talk entitled: Acetalated Dextran Microparticle-Associated B Cells: The Dynamic Duo Against Multiple Sclerosis
- 2nd place: Jackson Kos (Monash) for his talk entitled: Exploring Sex Differences of Metabotropic Glutamate Receptor 5 Negative Allosteric Modulation using Single-Sex Primary Neuronal Cultures
- 3rd place: Michaela Kaoullas (Monash) for her talk entitled: Structural insights into positive allosteric modulation at the M4 muscarinic acetylcholine receptor
- Honorable mention: the highest scoring UCL participant was Peter Velickovic for his talk entitled: Optimising beta-lactam containing antibiotic combination therapy for the treatment of Buruli ulcer







Graduate Research E-Symposium 2024

Day 1: 1 May 2024						
Speaker	Topic					
Orlagh Feeney	Welcome and intro					
Pranav Pankaj Runwal (Monash)	Using nanobodies to facilitate drug delivery across the blood-brain barrier in gliomas					
Dan Zhao (Monash)	Designing a pH-responsive nano-drug delivery system to target lymph-nodes to enhance cancer therapy					
Sophie Mendell (UNC)	Interstitial Controlled Release of Resiquimod for Glioblastoma Treatment					
Bethany Latham (UNC)	Investigating CYP3A and CYP2C8 Phenotypes in a Diverse Cohort of Hepatocyte Donors					
Annie Roys (Monash)	Combination of redox modifiers with artemisinin results in increased parasite susceptibility to artemisinins					
Nouf Alaboud (UCL)	Implementing an Electronic Screening Tool to Improve Antimicrobial Prescribir Decision-making for Paediatric Patients with Suspected Sepsis at an Academic Hospital in England: A Before and After Study					
Peter Velickovic (UCL)	Optimising beta-lactam containing antibiotic combination therapy for the treatment of Buruli ulcer					
George Tan (Monash)	Tree-based scan statistics to mine for drug repurposing signals					
Kathryn Morbitzer	10-min Break					
Fuad Mahamud (UCL)	Characterisation of Dynamic Hairpin DNA Switches in E-coli.					
Yinuo Wang (UCL)	Open Source Malaria: Potent Theinopyrimidine-based Sulfonamides with a Novel "Reaction Hijacking" Mechanism Against Plasmodium falciparum Asparagine tRNA Synthetase.					
Raeanne Geffert (UNC)	Exploring interindividual variability in sulfamethoxazole metabolism in single-donor primary human hepatocytes					
Mihir Upadhye (UNC)	Visualizing Sodium Taurocholate Cotransporting Polypeptide (NTCP) Activity and Localization using Optogenetic Tools					
Meghan Ricciardi (UNC)	Role of an Intrinsically Disordered N-Terminus in Human Thymidylate Synthase					
Kathryn Morbitzer	Closing					

Graduate Research E-Symposium 2024

Day 2: 2 May 2024						
Speaker	Topic					
Michelle Halls	Welcome and intro					
Dina Abushanab (Monash)	The Productivity Burden of Cardiovascular Disease and Improved Risk Factor Control Among Australians with Type 2 Diabetes: A 10-Year Dynamic Analysis					
Miriam Leung (Monash)	Association between Gabapentinoids and the Risk of Hip Fractures: A Population-based Case-crossover and Case-case-time-control Study					
Boqun Liu (Monash)	Probing Functionally Selective Agonists of the Dopamine D2 Receptor and Potent Serotonin 5-HT2A and Dopamine D2 Receptor Dual Ligands for the Treatment of Schizophrenia					
Jasmin Li (Monash)	Single target-dual therapy at M4 muscarinic receptors for the treatment of schizophrenia					
Michaela G Kaoullas (Monash)	Structural insights into positive allosteric modulation at the M4 muscarinic acetylcholine receptor					
Jackson Kos (Monash)	Exploring Sex Differences of Metabotropic Glutamate Receptor 5 Negative Allosteric Modulation using Single-Sex Primary Neuronal Cultures					
Chenyao Liu (UCL)	Population Pharmacokinetic of ketamine and norketamine in pediatric subjects during analgosedation					
Andria So (UCL)	Investigating the effects of long-term use of alprazolam on GABAergic synapses and GABAA receptor expression and intracellular trafficking					
Nicole Rose Lukesh (UNC)	Acetalated Dextran Microparticle-Associated B Cells: The Dynamic Duo Against Multiple Sclerosis					
Ethan Kreutzer	10-min Break					
Viktor Prypoten (Monash)	Prediction of peptide binding affinity through Parallel Cascade Selection Molecular Dynamics (PaCS-MD)					
Vivien Doan (UNC)	Identification of a dominant negative inhibitor for heparan sulfate 3-0-sulfotransferase isoform 1					
Shin Liau (Monash)	Deprescribing Opportunities for Frail Residents of Nursing Homes: A Multicenter Study in Australia, China, Japan, and Spain					
Monica Jung (Monash)	Predictors of persistent opioid use in Australian primary care					
Ami Lailaturrahmi (Monash)	Teaching clinical skills online in pharmacy education: a scoping review					
Lex Ehlert (UNC)	Adverse Drug Reactions and Medication Burden: Creating a Better Measure					
Ethan Kreutzer	Closing					

Global Leaders in Development (GLIDE) 2.0 Competition

23/24 Theme: Sustainability in Pharmacy

(FIP 21st goal) Self-learning modules created by PA + competition

GLIDE 2.0:

A GLOBAL LEADERSHIP MODULE ACROSS
THREE INTERNATIONAL PHARMACY SCHOOLS

Interventions title by the teams:

- 1."Promote medications return at pharmacy and appropriate classification of medicine waste to reduce the environmental harm of pharmaceucal waste"
- 2."Accessible Automated Recycling Machine"
- 3."Plants and Greenery in Community Pharmacies"
- 4."An integrated digital platform tracks drug life cycles, facilitating return of unused drugs"
- 5."Pharmacy as an amber bottle collection point for re-use (winning entry)"









WINNERS OF GLIDE 2.0

• 1st place: "Pharmacy as an amber bottle collection point for re-use" - created by Yujuong "Martina" Juong, Rida Karim, Siyuan "Irving" Zhang, Edric Chia, Philip Kmiecik



Watch the GLIDE 2.0 Winning Video Here

INTERNATIONAL CASE COMPETITION (ICC) INFOGRAPHICS WINNERS 2024

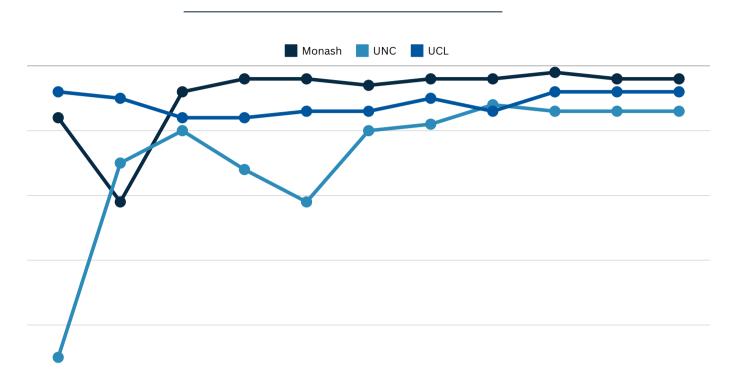
Conducting depression screenings in a community pharmacy

CREATED BY:

- Zaynab Mir (UCL)
- Onyinyechukwu
 Ezeoranu (UNC)
- Fatma Hussein (UCL)
- Lamees Ali (UCL)



QS World University Rankings: Pharmacy & Pharmacology



Monash

UNC

UCL

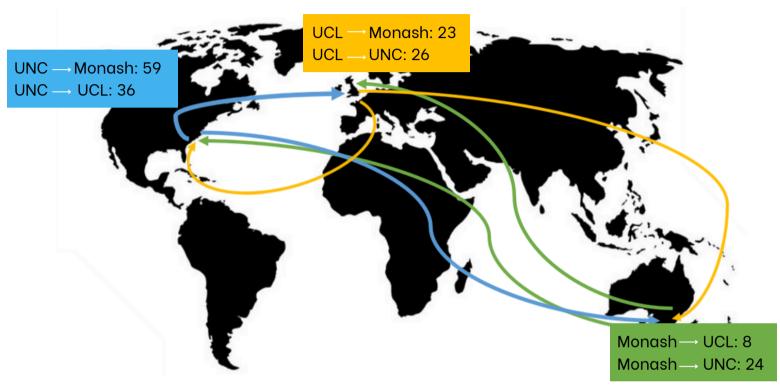
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
h	8	21	4	2	2	3	2	2	1	2	2
	45	15	10	16	21	10	9	6	7	7	7
-	4	5	8	8	7	7	5	7	4	4	4





Student Exchanges

BY THE NUMBERS: STUDENT EXCHANGES TO DATE - TOTAL = 176*



*Data includes PharmD, MPharm, and graduate students



Student Exchanges





During their global rotation at University College London (UCL), UNC students conducted research projects focusing on alert fatigue in EPIC and contributed to breast cancer studies using large NHS datasets. They gained hands-on experience in oncology patient care at University College Hospital, shadowed the nuclear department, and engaged with various healthcare professionals. They also explored London's culture and landmarks, including Stonehenge, West Ham matches, and Camden Market, while fostering connections with coworkers over coffee breaks.

At The Alfred Hospital in Melbourne, Australia, UNC students learned about the Australian healthcare system, gaining exposure to lung transplant and Cystic Fibrosis patients in both impatient and outpatient settings in the respiratory ward. They also explored different regions, tried indigenous Australian food and drink, and reflected on healthcare practices that could benefit the US.

Monash students at UNC collaborated on research projects with Drs. Jacqui McLaughlin and Kathryn Morbitzer in CIPhER focusing on core concepts for education in pharmacy administration & leadership. With Dr. Caroline Sasser, Monash students completed research focused on infographics as communication tools in pharmacy and pharmaceutical sciences. In their free time, these students engaged in the true Carolina experience through School and sporting events as well as exploring various states in the US.









Links to Resources

<u>PharmAlliance</u> <u>Website</u> <u>PharmAlliance</u> <u>X/Twitter</u>



PharmAlliance
Priorities & DEI
Statement

<u>PharmAlliance</u> <u>Passport</u> <u>Newsletters</u>

Report compiled by Sophia Mortha, PharmD, Caroline Sasser, PharmD, BCPS, Gillian Zavaglia, UNC PharmD Candidate, Xiaojing Yin, UNC PharmD Candidate

