



Research & Scholarship Day 2025

Symposium, Poster Exhibition & Competition

Friday, April 11, 2025

1:00 PM - 4:00 PM

Student Union Building - Ballrooms A & B



PROGRAM OF EVENTS

Ballroom B

10:30 AM- 1:00 PM

Poster Setup

Ballroom B

1:00 PM - 3:00 PM

Poster Competition

Ballroom A

3:15 PM - 3:20 PM

Welcome & Introduction

Donald Godwin, PhD

Dean & Professor, UNM College of Pharmacy

3:20 PM - 3:25 PM

Best paper for CE track faculty

Barry E. Bleske, Pharm. D.

Professor and Chair, UNM College of Pharmacy

3:25 PM - 3:30 PM

2025 Outstanding COP Research Track Faculty Award
Recipient

Ting Jiang, PhD

3:30 PM - 4:00 PM

Refreshments & Award Ceremony



*The UNM College of
Pharmacy is proud to present
this annual multidisciplinary
exhibition highlighting
the cutting-edge research
and impressive scholarly
activities of our MS, PhD, and
PharmD students, post-docs,
residents, faculty and staff.*



Best poster by a Doctor of Pharmacy or Undergraduate Student in Clinical Sciences

1. Aspen Gardipe, Amer El Ghali, Diari Toole, Molly Benning, Bernadette Jakeman: Recombinant Adjuvanted Hepatitis B Vaccination in People With Human Immunodeficiency Virus
2. Chase De Guio, Nari Piriman, Ann Nawarskas, James Nawarskas: Perceptibility of AI Generated Content in Pharmacy Letters of Intent
3. David Hunter, Bernadette Jakeman, Amer El Ghali, Diari Toole: Retrospective review of doxycycline post-exposure prophylaxis
4. Martin Guzman, Bernadette Jakeman, Diari Toole, Molly Benning, Meghan Brett, Amer El Ghali: Evaluation of Antibiotic Prescribing Patterns at Discharge for Community-Acquired Pneumonia (CAP) - A Retrospective Study
5. Victoria Vega, Victoria A. Vega, Kelsea G. Aragon, PharmD, Sara F. Azimi, PharmD, Jeremy W. Snyder, MD, Michelle J. Iandiorio, MD, Bernadette A. Jakeman, PharmD: Injecting Hope: A Long-Acting Injectable Program to Treat HIV Using Cabotegravir/Rilpivirine at a Ryan-White Funded HIV Clinic

Best poster by a Doctor of Pharmacy or Undergraduate Student in Basic Science

6. Alan Ibarra, Carl Esperanzate, Ahmed Muhyi, Nelson Amaya, Teofilo Borunda, Tamara Daniels Anderson, Michael Mandell, Debra McKenzie, Andrew Shreve, Todd Thompson: Astemizole-Induced Necrotic Cell Death Mediated by Lysosomal Membrane Permeabilization
7. Lauren Crowley, Andrea Ibarra, Aiden Leyba, Alexandria Francian, Dinesh Choudhury, Lexi Trujillo, Pavan Muttill: Sustained-Release PLGA Microneedles: Enhancing Vaccine Efficacy Without Multiple Doses
8. Andrea Ibarra, Lauren Crowley, Aidan Leyba, Alexandra Francian, Bryce Chackerian, and Pavan Muttill: Needle-Free Immunization: Hyaluronic Acid Microneedles for Vaccine Delivery
9. Mae A. Esquibel, Lillian S. Chhouk Keovilay, Abby M. Baca, Grace A. Picha, Krista N. Jacquez, Brianna B. Maes, Lauren K. Heine, Alicia M. Bolt, Eliane El Hayek, and Sebastian Medina: Polystyrene Microplastics Enhance the Lipopolysaccharide-Induced Inflammatory Potential of Human THP-1-Derived Macrophages
10. Aerlin Decker, Aerlin Decker, Alexander J. Nihart, Rui Liu, Daniel Gallego, Gabrielle Dvorscak, Matthew J. Campen, Marcus A. Garcia: Quantification and Identification of Microplastics in Human Tissue: Bioaccumulation over Eight Year

11. Idara Udiok: Spray Drying Technology for Cold-Chain Free Vaccines: Enhancing Stability and Immunization Readiness
12. Lexi Trujillo, Pavan Muttill, Lauren Crowley, Andrea Ibarra: Engineering polymeric microneedles: Overcoming solvent compatibility challenges
13. Laurissa Barela, Emily Phan, Aerlin Decker, Rui Liu, Eliane El Hayek, Josiah Kingston, Barry Bleske, Natalie Adolphi, Daniel F. Gallego, Rama R. Gullapalli, Matthew J. Campen , Marcus A. Garcia: Quantitative Analysis and Identification of Micro and Nanoplastics in the Right Hemisphere of a Human
14. Ariyana LaCour, Madalyn Dankocsik, Maddi Barnaby, Ansley Battle, Jason T McConville: Novel thin film for administration of hydrophobic drugs: Cellulose Ethers in the delivery of hydrophobic drugs
15. Daniel Anderson, Effie MacGregor, Amy Bachyrycz, Jason T. McConville: Image Analysis of Thermally Gelling Spray Formulation Deposition
16. Trish Nguyen, Jason McConville, Daniel Anderson: Thermal Gelation Formulations to Target Periodontal Pockets

Best Poster by a Post Doc, Fellow, or Resident

17. Sumira Phatak, Kathryn Brayer, Matthew Campen, Shahani Noor: Gestational ozone exposure drives cell type specific alterations in neuronal transcriptomics: insights from single nucleus sequencing
18. Maribel Hernández, Amanda Barkley-Levenson: Alcohol Conditioned Place Preference and Alcohol Consumption in Dpp6 Knockout Mice
19. Lauren K. Heine, Grace A. Picha, Karina N. Gonzalez, Brianna B. Maes, Mae A. Esquibel, Laura V. Santos-Medina, Haikun Zhang, Alicia M. Bolt, Ke Jian Liu, Sebastian Medina: Arsenic Impairs the Growth and Survival of Early Developing Human Red Blood Cells
20. Sakshi Patil, Josiah Kingston, Margaret Park, Marcus Garcia, Risa Smith, Milad MazlumiBakhshayesh, Rui Lui, Tamara Howard, Jessica Gross, Jorge Gonzalez-Estrella, Shahani Noor, Kiran Bhaskar, Bill Shuttleworth, Chad Cole, Matthew Campen, Andrew Carlson, Eliane El Hayek: Micro(nano)plastics in Human Cerebrospinal Fluid: Advanced approaches for Isolation and Quantification Methods
21. Dinesh Choudhury, Alan McNolty, Pavan Muttill: Beyond the Cold Chain: Spray-Dried Encapsulation for Vaccine Stability, Extended Release, and Long-Term Immunity

Best Poster by a Pharmacy Practice & Administrative Sciences Graduate Student or a Pharmaceutical Sciences Graduate Student

22. Alexandra Feldkamp, Ludmila Bakhireva, Kimberly Page, Adam Henrie: Characterizing A Priori Unblinding of Treatment Arm Allocation at Study Closeout of Veterans Affairs Cooperative Studies Program Randomized, Interventional, Multi-Center, Participant-Blinded Clinical Trials Since the Turn of the Millennium

23. Ember Sue, Jessica Begay, Edward Barr, Guy Herbert, Selita Lucas, Shahani Noor, Haiwei Gu, Matthew Campen: Sustained, age-dependent neurometabolic changes following wood smoke exposure in mice

24. Charlotte McVeigh, Geetanjali Sharma, Brandon Phinney, Jorge L. Moreno, Sydnee J. Yazzie, Jennifer A. Tjung, Serena C. Helewicz, Grace A. Picha, Guy W. Herbert, Sebastian Medina and Alicia M. Bolt: The effects of estrogen depletion on tungsten-enhanced breast cancer metastasis.

25. Charlotte McVeigh, Kevin Josey, Jennifer A. Tjung, Nicholas Stoll, Katherine A. James, and Alicia M. Bolt: Analysis of metabolic and inflammatory biomarkers and urinary tungsten concentrations in human serum samples from the San Luis Valley Diabetes Study

26. Jorge Moreno, Mitra Afaghpour-Becklund, Onamma Edeh, Charlotte McVeigh, Sydnee Yazzie, Onamma A Edeh, Brenna Baird, Rui Lui, Katie Zychowski, Sarah Blossom, Alicia Bolt: Development of an autoimmune prone disease state following inhalation exposure to uranium bearing dust in MRL/MpJ mice

Best Poster by a Research Staff Member

27. Rui Liu, Changjian Feng, Ting Jiang, Huayu Zheng: Laser ablation-inductively coupled plasma-mass spectrometry imaging in biology

28. Rebeka Sultana, André Lucas Borges, Vanessa Cordova, Amanda Barkley-Levenson: Ethanol-induced Conditioned Place Preference in Fut2 mice

29. Margaret Park, Sakshi Patil, Risa Smith, Cris Anthony R. Rabino, Alexis Maranan, Marian Olewine, Josiah Kingston, Marcus Garcia, Matthew Campen, Eliane El Hayek: Application of surfactants in the process of food and crop digestion to isolate and quantify micro(nano) plastics

30. Ashley Wegele, Rebecca Merzke, Li Luo, Debra MacKenzie: Role of essential nutrients in contributing to adverse birth outcomes within the Navajo Birth Cohort Study

Best Poster by a Research Faculty Member

31. Ting Jiang, Xing Zhang, Chioma Onyeugo, Meilian Liu, Changjian Feng: Establishing In-House Mass Spectrometry Imaging for Spatial Omics in Biomedical Studies

32. Esther Erdei, Judith T. Zelikoff , Kathleen M. Vandiver, Amanda G. Mayer, Raeann Mettler, Rae O'Leary , Marcia O'Leary , Cristina Perez, and Kathleen Burke: An R25 Gene-Environment Short Course for Health Professionals - The Year 1 Report

33. Eliane El Hayek, Olewine,M., Wu, D., Acle, G., Garcia, M., Phatak, S., MazloumiBakhshayesh, M., Hunter, R., Baird, B., Patil, S., Howard, T., Lui, R., Benavidez, A., Herbert, G., Lucas, S., Gonzalez-Estrella, J., Bleske, B., Yang, X., Ledford, J., Campen, M., El Hayek, E.: Inhalable flame retardant polyester fibers as a potential driver of immunomodulation in asthma.

34. Curtis Miller, Deb MacKenzie, Ashley Wegele: A new method for modeling proportions, with an application to data from the Community Environmental Health Program

Best COP Inter-Departmental Collaborative Research Poster

13. Laurissa Barela, Emily Phan, Aerlin Decker, Rui Liu, Eliane El Hayek, Josiah Kingston, Barry Bleske, Natalie Adolphi, Daniel F. Gallego, Rama R. Gullapalli, Matthew J. Campen , Marcus A. Garcia: Quantitative Analysis and Identification of Micro and Nanoplastics in the Right Hemisphere of a Human Brain

15. Daniel Anderson, Effie MacGregor, Amy Bachyrycz, Jason T. McConville: Image Analysis of Thermally Gelling Spray Formulation Deposition

33. Eliane El Hayek, Olewine,M., Wu, D., Acle, G., Garcia, M., Phatak, S., MazloumiBakhshayesh, M., Hunter, R., Baird, B., Patil, S., Howard, T., Lui, R., Benavidez, A., Herbert, G., Lucas, S., Gonzalez-Estrella, J., Bleske, B., Yang, X., Ledford, J., Campen, M., El Hayek, E.: Inhalable flame retardant polyester as a potential driver of immunomodulation in asthma

Non-competing Category (Poster Display Only)

35. Alice Rindestig, Shannon Doherty-Lyons , Jill Aquino, Chief Vincent Mann, Judith Zelikoff , Esther Erdei: Emerging chemical exposures and immune system evaluations in exposed communities living in a Superfund site
36. Changjian Feng, Ting Jiang, Rui Liu, Matt Campen: Advancing Research Excellence: UNM Integrative Molecular Analysis & Bioanalytical Chemistry Cores
37. Changjian Feng, Ting Jiang, Guanghua Wan, Haikun Zhang, Yadav Prasad Gyawali, Eric Underbakke: Elucidating Inter-Subunit Inter-Domain FMN-Heme Interactions in Neuronal NO Synthase Using Targeted Quantitative Cross-Linking Mass Spectrometry
38. Rui Liu, Changjian Feng, Ting Jiang, Huayu Zheng: Unveiling Limitless Horizons: Inside the New Mexico Mass Spectrometry Laboratory
39. Rana Alkhafaji, Matthew E Borrego, PhD, RPh, Snehal R Bhatt, MD, Julie G Salvador, PhD, Melissa H Roberts, PhD: Cost-Effectiveness and Retention Rates of Telehealth vs. In-Person Buprenorphine Treatment for Opioid Use Disorder (OUD) at the University of New Mexico Hospital's Addiction and Substance Abuse Program (UNMH-ASAP) Clinic
40. C. Wiley, G. Binzet, M. Celik, L. Felton: Predicting Drug Release from Film-Coated Tablets Using Artificial Intelligence and Statistical Modelling
41. Alex Nihart, Marcus Garcia, & Eliane El Hayek, Rui Liu, Marian Olewine, Josiah D. Kingston, Eliseo F. Castillo, Rama Gullapalli, Tamara Howard, Barry Bleske, Justin Scott, Jorge Gonzalez-Estrella, Jessica Gross, Michael Spilde, Natalie L. Adolphi, Daniel F. Gallego, Heather S. Jarrell, Gabrielle Dvorsak, Maria E. Zuluaga-Ruiz, Andrew West, Matthew J. Campen: Bioaccumulation of Microplastics in Decedent Tissues: Quantification by Pyrolysis-GC/MS
42. Alan McNolty, Dinesh Choudhury, Bryce Chackerian, Pavan Muttli: Polymer encapsulation of VLP-based vaccine for exponential dosing
43. Amy Bachyrycz, Yazzie, Perea, Sweetman, Robinson, Bachyrycz, Martinez: UNM College Freshman Vaccine Attitudes
44. Hayley N Wondra, Marena Montero, Mitra A Afaghpour-Becklund, Laura Santos-Medina, Samrat R. Choudhury, Sarah J Blossom: Trichloroethylene-induced changes in gene expression of CD4+ T cells related to metabolism and glycolysis in autoimmune-prone MRL/MpJ mice

45. Mary Paige Haley, José Cerrato, Eliane El Hayek, Katelin Fisher, Abdul-Mehdi S. Ali, Viorel Atudorei, Angelica Benavidez, Eric Peterson, Adrian Brearley, Derek Capitan: Heavy Metal Mobility and Geochemical Interactions in Mining-Impacted Landscapes: Insights about the Fine Fractions from a Village Proximate to a Uranium Mine

46. Jason Zhang, Fredine Lauer, Marena Montero, Alicia Bolt, Debra MacKenzie, Mary Vilay, and Sarah Blossom: Immunomodulation of THP-1 Derived Macrophages by Single and Co-exposure of Trichloroethylene and Arsenic

47. Carolyn Roman, METALS Research Team, Dr. Jose Cerrato: UNM METALS Superfund Center Overview

48. Becky Woloszyn, Luke Latterell: College of Pharmacy Research Highlights

49. Becky Woloszyn, Luke Latterell: College of Pharmacy Research Office Services

50. Becky Woloszyn, Luke Latterell: College of Pharmacy Patents 1

51. Becky Woloszyn, Luke Latterell: College of Pharmacy Patents 2



THANK YOU
FOR JOINING US!



Our Mission

Our mission is to develop pharmacists, educators and scientists whose leadership, dedication and innovation improve the health of our local and global communities.

Our Vision

To prepare tomorrow's leaders through innovative teaching, research and clinical practices that translate scientific discoveries into new treatments and models of care to improve both health and quality of life.

Our College

The UNM College of Pharmacy is the premier destination for exceptional pharmacy education, research, and patient care programs. Building on a 77-year legacy of innovation, the College prides itself in preparing the next generation of pharmacy leaders.

College of Pharmacy
The University of New Mexico Health Sciences

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