

SURP Poster Presentations

#	Student	Title	Authors	Department
1	Philion Hoff <i>University of Nebraska at Lincoln</i>	Phosphorylation status of DNA damage repair protein RAD52	Philion L. Hoff ¹ , Carol Kolar ² , Gloria E. O. Borgstahl ²	MD/PhD
2	Alexander Klementiev <i>Willamette University</i>	Selective Drug Delivery to Pancreatic Cancer Cells	Alexander Klementiev, Richard Sleightholm, Dr. David Oupicky	Pharmaceutical Sciences
3	Tyler J. Ripperger <i>Midland University</i>	Deconvoluting the BRCA1 tandem BRCT domain interaction with the mTORC2 complex	Tyler J. Ripperger ¹ , Stetson Williams ² , Kimiko Krieger ³ , Jacob Wragge ⁴ , AJ Crawford ⁴ , Nicholas T. Woods ^{2,5}	Eppley Institute for Research in Cancer and Allied Diseases
4	Christa Manning <i>College of Saint Mary</i> Momoko Sullivan <i>James Madison University</i>	Family Psychosocial Variables and Child Health outcomes: Validation of Family Psychosocial Index as an Instrument to Assess Family Psychosocial Risk in Primary Care	Christa Manning, Momo Sullivan, David Taylor, Ph.D.c., Jonathon Santo, Ph.D., Andrea Zimmer, M.D., and Arwa Nasir, M.D.	Pediatrics
5	Freshta Baher <i>University of Nebraska Lincoln</i>	Characterization of Patients with Alcohol Use Disorder that Frequently Visit the OVA Emergency Department	Freshta Baher ¹ , Ann Polich, M.D. ²	Internal Medicine
6	Colton Roessner <i>University of Nebraska at Lincoln</i>	Norepinephrine-Mediated T-lymphocyte Inhibition is Associated with Increased Steady-State Intracellular Superoxide Levels	Colton T. Roessner, Adam J. Case, and Matthew C. Zimmerman	Cellular & Integrative Physiology
7	Garrett Teel <i>Nebraska Wesleyan University</i> Kali Juracek <i>Colorado State University</i>	Protocol of Analyzing Vitamin E Status in Neonatal Intensive Care (NICU) Population	Garrett Teel, Kali Juracek, Jana Wells RD, Ann Anderson-Berry MD PhD, Corrine Hanson PhD RD LMNT, Melissa Thoene MS RD LMNT CNSC	Pediatrics
8	Melissa Bavitz <i>University of Nebraska at Lincoln</i>	<i>Pseudomonas</i> Quinolone Signal (PQS) Induces Oxidative Stress in Lung Epithelial Cells and Macrophages	Melissa Bavitz, Traci Hoke, BS, Barbara Switzer, BS, MT, Bradley Britigan, MD, and Maher Abdalla, PhD.	Internal Medicine

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9	Rachel Schmitt <i>Nebraska Wesleyan University</i>	Do transfers and time to surgery affect gastroschisis outcomes?	Schmitt RR, Lyden ER, Abdessalam SF, Jones BA, Raynor SC, Cusick RA	Pediatrics
10	Stefan Peterson <i>Creighton University</i>	Analyzing Influenza-like Illness Related Admissions from Emergency Department Visits	Stefan Peterson, Ozgur M. Araz, PhD	College of Public Health
11	Jessica Vaughan <i>Western Kentucky University</i>	Serum Albumin Facilitates the Cellular Uptake of Dexamethasone Macromolecular Prodrug	Jessica Vaughan ¹ , Yangsheng Yu ¹ , Xiaobei Wang ² , Dong Wang ² , Kaihong Su ¹	Pathology/Microbiology
12	Fatiha Iqbal <i>Creighton University</i>	Pro-Inflammatory Effect of Guanidinoacetate on Macrophages: An <i>In Vitro</i> Study	Fatiha Iqbal, Wenxian Zhou, Dan Feng M.D., Ph.D., Kusum K. Kharbanda, Ph.D.	Internal Medicine
13	Nicole Schwery <i>University of Nebraska Lincoln</i>	Spatial distribution of external pressure over the acoustic temporal window in pediatric patients exerted by a transcranial Doppler fixation device	Nicole Schwery, Katelyn Watts, Gregory Bashford Ph.D, and Edward Truemper, M.D.	Pediatrics
14	Katelyn Watts <i>University of Nebraska Lincoln</i>	Acoustic transmission efficiency of various biomaterials for transcranial Doppler long-term monitoring during pediatric cardiac surgery	Katelyn Watts, Nicole Schwery, Gregory Bashford, Ph.D., Edward Truemper, M.D.	Pediatrics
15	Jacquelyn Peck <i>Creighton University</i>	Analysis of XPF-ERCC1 endonuclease complex in DNA repair	Tadayoshi Bessho, Ph.D., Jacquelyn Peck	Eppley Institute for Research in Cancer and Allied Diseases
16	Brooke M. Fenske <i>Creighton University</i>	Cardiac allograft remodeling outcomes one year after heart transplantation	Brooke M. Fenske, Brian D. Lowes, MD, PhD, Ronald Zolty, MD, Hareeprasad R. Vongooru, MD, and Eugenia Raichlin, MD	Internal Medicine

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17	Sarah Monaghan <i>Carleton College</i>	Investigating the Needs of Sex Trafficking Survivors	Sarah Monaghan, Shireen Rajaram, PhD	College of Public Health
18	Zoe Cohen <i>Washington University, St. Louis</i>	Abnormal gamma activity during auditory processing in adults with ADHD	Zoe Cohen, Martin W. Wetzel, MD, Tony W. Wilson, PhD	Pharmacology and Experimental Neuroscience
19	Anthony Donovan <i>University of Nebraska Kearney</i>	Synthesis of Substituted <i>N,N</i> -Diphenyl-Terephthalamide Analog for Potential Treatment of Schistosomiasis	Anthony Donovan, Xiaofang Wang, Yuxiang Dong, and Jonathan Vennerstrom	Pharmaceutical Science
20	Leslie Flores <i>University of Nebraska Omaha</i>	Unfolding Thermodynamics for DNA Stem-Loop Motifs	Leslie Flores, Calliste Reilling-Steffensmeier, Luis A. Marky	Pharmaceutical Sciences
21	Charlie Dawson <i>Midland University</i>	The Effect of Transforming Growth Factor Beta on Histone Deacetylase Expression in Colon Cancer Cell Lines	Charlie Dawson, Catherine Murari, Shane Laschanzky, Gillian M. Howell, Ph.D., Michael Brattain, Ph.D.	Eppley Institute for Research in Cancer and Allied Diseases
22	Demi Eble <i>College of Saint Mary</i>	Determination of the anti-inflammatory factor of <i>Lactobacillus reuteri</i> .	Demi L. Eble, William A. Roughead, MS, Tricia D. LeVan, PhD	College of Public Health
23	Joseph Hindman <i>Buena Vista University</i>	Interferon Alpha-Induced FATylation of Oxidized Liver Proteins is Disrupted by Ethanol Metabolism	Joseph Hindman, Murali Ganesan, PhD. Natalia Osna, MD, PhD	Internal Medicine
24	Matt Van Ormer <i>University of Nebraska Omaha</i>	Associations Between Mode of Delivery and Respiratory Outcomes in NICU Neonates	Matthew Van Ormer, Ann Anderson-Berry MD PhD, Corrine Hanson PhD RD LMNT	Pediatrics



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25	Isabella Catalano <i>University of Nebraska Lincoln</i>	Evidence of heart disease in HIV-1 infected humanized mouse model	Isabella Catalano, Prasanta Dash, PhD, Santhi Gorantla, PhD	Pharmacology and Experimental Neuroscience
26	Matthew Schmitt <i>Nebraska Wesleyan University</i>	Examining the Level of Palliative Care Provided to Hospitalized Patients and Their Families	Matthew Schmitt ¹ , John Patrick ² , MSN, Angela Andersen ² , MSN, APRN, David Gannon ³ , MD, FACP, FCCP, Julie Lazure ⁴ , MSN, Regina Nailon ⁵ , PhD, RN, and Sarah Richards ¹ , MD	Internal Medicine
27	Carmen Ochoa <i>University of Nebraska Lincoln</i>	Alcohol and Electronic Cigarette Vapor Enhance Bronchial Epithelial Cell Wound Injury	Carmen Ochoa, Jane DeVasure, Todd A. Wyatt, PhD	Internal Medicine
28	Joseph W. Galaske <i>Grinnell College</i>	Investigating the Mechanism of Antioxidant MnTE-2-PyP as an SOD1 Mimetic in Prostate Cancer Progression	Joseph W. Galaske, Rebecca E. Oberley-Deegan, Elizabeth A. Kosmacek, Qiang Tong	Biochemistry and Molecular Biology
29	Laura Flores <i>New Mexico State University</i>	Regulation of SIRT-1 and GFAP by HIV Tat Protein	Laura Flores, Lilly Foley, Lu Yang, Shilpa Buch	MD/PhD
30	Mahi Yetukuri <i>St. Louis University</i>	Morphine dysregulates autophagy in BV-2 microglial cells	Mahijeeth Yetukuri, Palsamy Periyasamy PhD, Ming-Lei Guo, PhD, Shilpa Buch, PhD	Pharmacology and Experimental Neuroscience
31	Meg Thacker <i>Augustana College</i>	Digoxin-mediated inhibition of hypoxia-inducible factor 1 α (HIF-1 α) translation mediates metabolic alterations in macrophages	Megan L. Thacker, Nina Chaika, Venugopal Gunda and Pankaj K. Singh, Ph.D.	Eppley Institute for Research in Cancer and Allied Diseases
32	Jordan Bowman <i>Creighton University</i>	MAA Modified Proteins Increase Expression of LOX-1 Receptor and TNF-Alpha in Macrophage	Jordan R. Bowman ¹ , Karen C. Easterling ^{1,2} , Michael J. Duryee ^{1,2} , Daniel R. Anderson ³ , Ted R Mikuls ^{1,2} , Lynell W. Klassen ^{1,2} , and Geoffrey M. Thiele ^{1,2,4} .	Internal Medicine

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33	Rafid Rahman <i>University of Illinois at Chicago</i>	Antibodies to Malondialdehyde-Acetaldehyde Adducts Are Highly Expressed in Rheumatoid Arthritis Synovial Fluid	Rafid Rahman ¹ , Geoffrey M. Thiele ² , Andy Hollins ¹ , Michael J. Duryee ¹ , Daniel Anderson ¹ , Bartlett Hamilton ³ , Kaleb Michaud ⁴ , Lynell W. Klassen ² and Ted R. Mikuls ¹	MD/PhD
34	Sarah Whitmire <i>University of North Carolina Charlotte</i>	URMC-099 modulation in amyloid-beta mediated microglial responses	Sarah M. Whitmire, Weiguo Dong, Yaman Lu, Christine M. Morrison, Tomomi Kiyota, Howard E. Gendelman	Pharmacology and Experimental Neuroscience
35	Emma Harwood <i>Creighton University</i>	Gene Ontology and PANTHER: Intertwining Bioinformatic Tools for Term Enrichment Analysis	Emma Harwood, Kristin Frederick, Pawel Ciborowski, PhD	Pharmacology and Experimental Neuroscience
36	Joe Smolsky <i>University of Nebraska Omaha</i>	Testing Conditions for Optimal Performance of Tip Enhanced Raman Scattering Using Ntegra Spectra	Joseph Smolsky ^{1,2} , Alexey V. Krasnoslobodtsev ^{1,2} , and Yuri L. Lyubchenko ²	Pharmaceutical Sciences
37	Josie Bircher <i>Grinnell College</i>	Binding of Mannose 6-Phosphate Ligands to a Putative Lysosome Biogenesis Receptor in <i>Dictyostelium discoideum</i>	Josie E. Bircher ¹ , Megan E. Zavorka ² , Christopher M. Connelly ² , Richard G. MacDonald ²	Biochemistry and Molecular Biology
38	Manisha Kalaga <i>University of Nebraska Lincoln</i>	The Role of miR-345 in Pancreatic Cancer	Manisha Kalaga, Satyanarayana Rachagani, PhD, Sakthivel Muniyan, PhD, and Surinder K. Batra, PhD	Biochemistry and Molecular Biology
39	Joshua Daum <i>Colorado State University</i>	Gene therapy for juvenile batten disease using self-complementary adeno-associated virus 9 (scAAV9)/hCLN3	J. Daum, A. Aldrich, M. Bosch, R. Fallet, J. Odvody, and T. Kielian	MD/PhD
40	Courtney Venegas <i>Northwestern College</i>	Novel Antibiotic Discovery by Targeting MstP	Seoung R. Choi, Ph.D. Joel Frandsen, B.S. and Prabakaran Narayanasamy, Ph.D.	Pathology/Microbiology

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41	Isaak Ailts <i>Luther College</i>	Role of Apoptosis in Lung Repair and Resolution Following Repetitive Organic Dust Inhalant Treatment	Isaak Ailts, Elizabeth Staab MS, and Jill A. Poole, MD	Internal Medicine
42	Supriya Reddy <i>Lincoln East High School</i>	Visualization of Macrophage-Derived Extracellular Vesicles Using Superresolution Structured Illumination Microscopy	Supriya Reddy, Xowmya V. Yelamanchili, Ph.D., Howard S. Fox, MD, PhD	Travis B. Lewis
43	Sarah Hill <i>Midland University</i>	Inhibition of Ghrelin Activity Improves Insulin Secretion and Fat Metabolism in Ethanol Fed Rats	Sarah E. Hill, Karuna Rasineni, PhD, Carol A. Casey, PhD	Internal Medicine
44	Nicole Weedman <i>Bryan College of Health Sciences</i>	Next Generation Sequencing of Nebraska DNA Bank for cardiomyopathy and cancer gene mutations	Nicole M. Weedman, Kajari Dhar, PhD, Eric Rome, MD, John Um, MD, Michael J. Moulton, MD, Brian D. Lowes, MD, PhD	Internal Medicine
45	Andreas Seas <i>University of Maryland at Baltimore County</i>	Effects of demographics and risk factors on the elastic strain energy of human superficial femoral arteries	Andreas Seas, Jason MacTaggart, Alexey Kamenskiy	MD/PHD
46	Ben Ashby <i>Georgia Institute of Technology</i>	Motor Skill Learning Induced Changes in Astrocyte-Synapse Interaction in Mice	Ben Ashby, Padmashri Ragunathan, Pierluca Coiro, Anna Dunaevsky	MD/PhD
47	Brigham Killips <i>University of Kansas</i>	The Effects of Point Mutations on CTNND2 and its expression of δ -catenin in HEK and Neuronal Cells	Brigham Killips, Li Yuan, Dr. Eunju Seong, Dr. Jyothi Arikath	MD/PhD
48	Kyle McMillan <i>University of Nebraska Lincoln</i>	Synthesis of Tuftsin Peptide for Targeted ART Delivery	Kyle McMillan, Brady Sillman, Dr. Benson Edagwa, Dr. Howard E. Gendelman	Pharmacology and Experimental Neuroscience

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49	Monica Acosta <i>Santa Rosa Junior College</i>	Synergism Studies with IKKbeta Inhibitors and Gemcitabine for Pancreatic Cancer Therapy	Monica Acosta, Jacob C. Contreras, Amar Natarajan	Eppley Institute for Research in Cancer and Allied Diseases
50	Haelee Kowalski <i>Midland University</i>	Associations between Social Network Support and Substance Use among Treatment-Seeking Veterans	Haelee Kowalski; Brendan Young, PhD; Monica Meeks, BA; Kimberly Tyler, PhD; Cynthia Beaumont, CCRC; Kathleen Grant, MD	Internal Medicine
51	Lacey Andrews <i>Bluefield State College</i>	Using PRAMS Data and Stakeholder Involvement to Create a Resource for Breastfeeding Action	Lacey Andrews, Carol S. Gilbert, MS, Brenda Coufal, Holly Dingman, MS, RD	Pediatrics
52	Taylor Zitek <i>Nebraska Wesleyan University</i>	VEGF-C Signaling Axis Regulates Mammary Tumor Chemotherapy Resistance	Taylor A. Zitek, Michelle L. Varney, Rakesh K. Singh	Pathology/Microbiology
53	Jake Luther <i>University of Nebraska Lincoln</i> Stephen Enke <i>University of Nebraska Lincoln</i>	Development of New Treatment for Neuroblastoma: BChE Inhibition in Combination with Ionizing Radiation	Jake Luther ¹ , Stephen Enke ¹ , Janina Baranowska-Kortylewicz, Ph.D.	Radiation Oncology
54	Shereen Salfity <i>Rockhurst University</i>	MUC16-CT induces STAT3 phosphorylation in Lung Cancer	Shereen Salfity, Imayavaramban Lakshmanan, Moorthy P. Ponnusamy ¹ , Srustidhar Das ¹ , Apar Kishor Ganti ² , and Surinder K Batra ¹	Biochemistry and Molecular Biology
55	Sujaytha Paknikar <i>The University of Michigan</i>	Overexpression of MUC5AC Induces Migration of Lung Cancer Cells via Interaction with Integrin β 4 Signalling	Sujaytha Paknikar, Imayavaramban Lakshmanan, Shiv Ram Krishn, Moorthy P. Poonusamy, Surinder K Batra, and Apar Kishor Ganti	Internal Medicine
56	Alexandra Crook <i>Regis University</i>	Nanoformulated Copper/Zinc Superoxide Dismutase Reduces Adipose Inflammation in Obesity	Alexandra Crook., Curtis Perriotte-Olson., Devika S. Manickam., Cyrus V. Desouza., Gopalakrishnan Natarajan., Alexander V. Kabanov., and Viswanathan Saraswathi	Internal Medicine