

# Summer Undergraduate Research Program

University of Nebraska Medical Center

Poster Presentation Program

Truhlsen Events Center, Sorrell Center

Thursday August 10, 2017

11:00am-1:00pm

**BIOCHEMISTRY AND MOLECULAR BIOLOGY**

#	Student	Title	Authors
1	Nasam AITwal <i>University of Nebraska-Lincoln</i>	The Role of MicroRNA-1/PAX6/CXCR4 Axis in Pancreatic Cancer Progression and Metastasis	Nasam AITwal, Saswati Karmakar, Ranjana Kanchan, Parthasarathy Seshacharyulu, Deborah Lang, Mohd Wasim Nasser, Ravi Salgia, and Surinder K. Batra
2	Eric Rasmussen <i>Iowa State University</i>	Inhibition of EGFR- and VPS34-Signaling, Potentiate Differentiation in Renal Proximal Tubular Epithelial Cells	Balawant Kumar, Eric Rasmussen, Amar B. Singh
3	Meara Sedlak <i>University of Pittsburg</i>	Differential Metastatic Potential of Pancreatic Cancer Stem Cells	Meara Sedlak, Rama krishna Nimmakayala; Surinder K. Batra and Moorthy P. Ponnusamy
4	Avi Prajapati <i>Vanderbilt University</i>	Cigarette Smoking Induces Upregulation of the ET-Axis in the Pancreas: Implications in Pancreatic Ductal Adenocarcinoma	Avi Prajapati, Suprit Gupta, Rama Krishna Nimmakayala, Surinder K Batra, Maneesh Jain

### CELLULAR AND INTEGRATIVE PHYSIOLOGY

#	Student	Title	Authors
5	Allison J. Kohl <i>Nebraska Wesleyan University</i>	Evaluation of Inflammatory Parameters in Mouse Stress Models"	Allison J. Kohl, Christopher W. Collins, Safwan Elkhatib, and Adam J. Case
6	Patrick Marta <i>Creighton University</i>	Role of Homocysteine and Hydrogen Sulfide Donors on death signaling in HL-1 cardiomyocytes	Patrick Marta, Roopali Yadav, Shyam S. Nandi, Hamid R. Shahshahan, Santosh K. Yadav, and Paras K. Mishra
7	Wenxian Zhou <i>University of Nebraska-Omaha</i>	Behavioral Studies of Chronic Heart Failure in Rats	Wenxian Zhou, Robert Lewis and Harold D. Schultz

**COLLEGE OF PUBLIC HEALTH**

#	Student	Title	Authors
8	Alegra Mendez <i>University of Nebraska-Lincoln</i>	Assessment of Physical Activity Programs (APAP) instrument: Evaluating youth physical activity programs in rural Nebraska	Alegra I Mendez; Chelsey R Schlechter, MPH; Gwenndolyn C Porter, MS; Jasmin Sandoval; Alexia L Garcia; Alyssa D Duval; Dr. Paul A Estabrooks, PhD; David A Dzewaltowski, PhD
9	Alexia Garcia <i>University of Nebraska-Lincoln</i>	A Systematic Assessment of the Physical Environment and Activity-Friendliness in a Rural Nebraska Environment	Alexia L Garcia, Chelsey R Schlechter, Gwenndolyn C Porter, Jasmin Sandoval, Alegra I Mendez, Alyssa D Duval, Dr. David A Dzewaltowski ,Dr. Paul A Estabrooks
10	Jasmin Sandoval <i>Doane University</i>	A Systematic Assessment of the Physical Environment and Activity-Friendliness in a Rural Nebraska Environment	Jasmin Sandoval <sup>1</sup> ; Meagan Hemlick, MPH <sup>1</sup> ; Chelsey R. Schechter <sup>1</sup> , MPH; Gwenndolyn C. Porter, MS <sup>1</sup> ; Alegra I. Mendez <sup>1</sup> , Alyssa D. Duval <sup>1</sup> , Alexia L. Garcia <sup>1</sup> , Jennie L. Hill, PhD <sup>2</sup> , Paul Estabrooks, PhD <sup>1</sup>
11	Alyssa Duval <i>Doane University</i>	Primary Care Weight Loss Focus Group Analysis	Alyssa Duval, Gwenndolynn Porter, Jasmin Sandoval, Alexia Garcia, Alegra Mendez, 2Rob Schwab MD, and Paul Estabrooks PhD

**EPPLEY INSTITUTE FOR RESEARCH IN CANCER**

#	Student	Title	Authors
12	Richard Cassidy <i>Creighton University</i>	Over-expression of DNA polymerase is toxic to yeast	Richard Cassidy, Jessica Mutters, Anna Zhuk, Mariah Abney, Yuri Pavlov
13	Kevin Sanchez <i>Florida State University</i>	Metabolic Response to Quercetin in Pancreatic Cancer Cells	Kevin Sanchez, Venugopal Gunda, Kyla B. Buettner, Nina V. Chaika, and Pankaj K. Singh
14	Andrew Egger <i>University of Nebraska-Lincoln</i>  Audrey Smith <i>Lee University</i>	Synergistic effects of Riluzole and 5-Fluorouracil in colorectal cancer cell lines	Andrew Egger and Audrey Smith
15	Dennis J. Maar II <i>Hastings College</i>	Effects of acidic environment on cell survival and transcriptional regulation in pancreatic cancer	Dennis J. Maar II, Divya Murthy PhD, Scott E. Mulder, and Pankaj K. Singh PhD

**HIGH SCHOOL ALLIANCE**

#	Student	Title	Authors
16	Jon Kent <i>University of Nebraska-Lincoln</i>	Regulation of PDL-1 Expression in Neuroblastoma via microRNA's 29a, 29b, 29c	Jon Kent, Brianna Shaw, Srinivas Chava, Kishore Challagundla
17	Brianna Shaw <i>University of Nebraska-Lincoln</i>	Regulation of PD-L1 Protein Expression with miRNAs in Pediatric Neuroblastoma	Brianna Shaw, Kishore Challagundla, PhD., Srinivas Chava, PhD., and Jon Kent

INTERNAL MEDICINE			
#	Student	Title	Authors
18	McKenzie Currey <i>Hasting College</i>	Alcohol Exposure Slows Proliferation of Pulmonary Mesenchymal Stem Cells	McKenzie Currey, Dawn Katafiasz, MPH, Tara Nordgren, PhD, Kristina Bailey, MD
19	MacKenzie N. Harry <i>Rockhurst University</i>	In vitro Comparison of Ethanol Metabolism in Precision Cut Liver Slices from C57, Balb/c, DBA/2J and 129S1/SvImJ Mice.	MacKenzie N. Harry <sup>1</sup> , Jordan R. Bowman <sup>1</sup> , Michael J. Duryee <sup>2</sup> , Carlos D. Hunter <sup>2</sup> , James R. O'Dell <sup>2</sup> , Ted R. Mikuls <sup>2</sup> , Lynell W. Klassen <sup>2</sup> and Geoffrey M. Thiele <sup>2</sup>
20	Georgia Huffman <i>University of West Florida</i>	Left atrial size can differentiate between PAH and WHO group 2 pulmonary hypertension due to HFpEF	Georgia Huffman, Dr. Ronald Zolty, Dr. Brian Lowes, Dr. Adam Burdorf, and Dr. Ahmed Selim
21	Adelaide Johanson <i>Creighton University</i>	The effect of TGF- $\beta$ on cardiac fibroblasts and exosome-mediated signaling in heart failure	Adelaide Johanson, Hesham Basma, PhD, Kajari Dhar, PhD, Fang Qui, MS, PhD, Brian Lowes, MD, PhD.
22	Tanner Wetzel <i>South Dakato State University</i>	MAA-adducted Surfactant Protein D stimulation of Transforming Growth Factor Beta 2 blocks Bronchial Epithelial secretion of IgA	Tanner Wetzel, Jane Devasure, Dawn Katafiasz, Kusum Kharbanda, PhD, Kristina Bailey, MD, Todd Wyatt, PhD
23	Megan Kucks <i>Midland University</i>	The Correlation between Hyperarousal and Severity of Alcohol, Cannabis, and Nicotine Use Disorders in Persons on Probation	Megan Kucks, Cynthia Beaumont, CCRC, Rebecca Losh, L. Brendan Young, PhD, Jamie Simpson, PhD, R. Dario Pulido, PhD, Kathleen M. Grant, MD
24	Sarah Sweeney <i>University of Nebraska-Lincoln</i>	The Effects of Alcohol on the Dynamics of Lipid Droplet Ubiquitination in Ethanol-Metabolizing Hepatoma Cells	Sarah Sweeney, Carol Casey, Ph.D., Paul Thomes, Ph.D., and Jacy Kubik
25	Kylee Stitz <i>Iowa State University</i>	Enhancing Understanding of Hospital Stay Among Older Adults: Comparative Effectiveness Evaluation	Kylee Stitz <sup>1</sup> ; Sarah Richards, MD, FACP <sup>1</sup> ; Jennifer Harsh, PhD, LIMHP, CMFT <sup>1</sup> ; Tyler Lawrence, MA, PLMHP <sup>1</sup> ; Daniel Almquist, MD <sup>1</sup> ; Ruth Nutting, PhD, LCMFT <sup>2</sup> ; Elise Beylund, MA <sup>1</sup> ; Jason Shiffermiller, MD, MPH, FACP <sup>1</sup>

INTERNAL MEDICINE			
#	Student	Title	Authors
26	Kalika Mahato <i>University of Nebraska-Lincoln</i>	Ethanol facilitates HIV-infection in macrophages by disrupting IFN- $\alpha$ signaling	Kalika Mahato, Murali Ganesan PhD., Edward Makarov, Raghubendra Dagur PhD, Larisa Poulektova MD, Ph.d, Natalia Osna MD Phd
27	Elisha Scheiber <i>Concordia University</i>	Effects of Intranasal Orexin on Normalizing the Open Field Behavior of MHC Class I H2Kbm1 Mice	Elisha Scheiber, Stephen J Bonasera M.D., Ph.D., Tammy Chaudoin, Nicholas DeKorver, Ph.D.
28	Austin Barry <i>Saint Louis University</i>	"Improving Toxicity Outcomes following Melphalan based High Dose Therapy and Autologous Stem Cell Transplantation: Time is free... Toxicity is Not"	Austin Barry, Matthew Lunning, DO
29	Maggie Rempe <i>University of Nebraska-Lincoln</i>	Intracranial Surgery and Hyperglycemia: A Missed Opportunity	Maggie Rempe, Jason Shiffermiller, MD, MPH, Kristy Carlson, PhD, Liz Lyden, MS, William Thorell, MD, and Rachel Thompson, MD, MPH, SFHM
30	Richard T. Aldan <i>Lee University</i>	The Effect of Modified Lipoproteins on Cytokine Production in Mouse Endothelial Cells.	Richard T. Aldan, Michael J. Duryee, Carlos D. Hunter, Geoffrey M. Thiel, Daniel R. Anderson, and Dahn L. Clemens
31	Hannah Safranek <i>University of Dallas</i>	Role of Iron in Tropolone's Mechanism of Action in Myeloma Cells	Hannah Safranek, Staci L. Haney, PhD, Michelle L. Varney, M.S, Sarah A. Holstein, M.D., PhD
32	Joseph Carmody <i>Washington and Lee University</i>	Regulation of YAP stability in pancreatic cancer cells by the small GTPase Rac1	Joseph Carmody, Chitra Palanivel, Karl Cordel, Michel Ouellette
33	Ricardo Rodriguez <i>Florida International University</i>	Reduced Fibrosis in SR1664-Treated Mice with Obesity-Induced Fatty Liver Disease	Ricardo A. Rodriguez, Ronda L. Simpson, Robert G. Bennett PhD
34	Nicolas Kuttner <i>Creighton University</i>	Evidence that Ethanol Exposure Disrupts Hepatic Lipophagy	Nicolas Kuttner, Li Yang, Carol A. Casey, Paul G. Thomes, Terrence M. Donohue, Jr.

**INTERNAL MEDICINE**

#	Student	Title	Authors
35	Andrea Lee <i>Hillsdale College</i>	Treatment Practices in Older Adults with Acute Myeloid Leukemia	Andrea J. Lee, Elizabeth R. Lyden, Lakshmi Manogna Chintalacheruvu, Thuy Koll, Lori J. Maness, Krishna Gundabolu, Vijaya Raj Bhatt

MD/PHD			
#	Student	Title	Authors
36	Philion Hoff <i>University of Nebraska-Lincoln</i>	Modification Status of RAD52, Hyperdimensional Modulated Crystal Refinement, & Web Development	Philion L. Hoff, Jeffrey J. Lovelace, Carol Kolar, Gloria E.O. Borgstahl
37	Zachary Van Roy <i>University of Nebraska-Lincoln</i>	Methamphetamine Treatment Results in Altered Protein Level of Several Mitochondrial Contact Site (MICOS) Subunits	Zachary Van Roy, Kelly Stauch, Benjamin Lamberty, Howard Fox
38	Don Nguyen <i>Michigan State University</i>	The Functional Importance of Proline Transporters in <i>Staphylococcus aureus</i>	Don Nguyen, McKenzie Lehman, PhD, and Paul Fey, PhD
39	Gabriella VanAken <i>Hillsdale College</i>	The Role of the IL1RL1/IL-33 Axis in Inv(16) AML	Gabriella VanAken, Yiqian Wang, Michelle Becker, and R. Katherine Hyde, PhD
40	Madison Bierman <i>Northwestern University</i>	Violence Prevention in Omaha: An Assessment of Community Resources	Madison Bierman and Melissa Tibbits, Ph.D.
41	Erica Dolph <i>University of Nebraska-Lincoln</i>	Robotic Systems: Microrobots and Autonomous Robots	Erica Dolph, Crystal Krause, PhD, Dmitry Oleynikov, MD
42	Faysal Shaikh <i>George Mason University</i>	in vitro Cytotoxicity Analysis of Core- Crosslinked Polymeric Micellar Drug Delivery System for SN-38 and DACHPt	Faysal Shaikh, Fan Lei, Tatiana K. Bronich

nanoSURP			
#	Student	Title	Authors
43	Lisa Hudson <i>Virginia State University</i>	The Development of Nano-radiosensitizers for the Treatment of Glioblastoma	Lisa Hudson, Shaheen Ahmed, Ph.D., Fan Lei, Ph.D., Zhi Chang, M.D., Ph.D., Tatiana Bronich, Ph.D.
44	Chinaza Nnawulezi <i>Hampton University</i>	URMC-099 Examination of Neuroinflammation in HIV-1 infected Humanized Mice Treated with Antiretrovirals and URMC-099	Chinaza Nnawulezi, Dr. Howard Gendelman, Dr. Santhi Ghorantla, Dr. Prasanta Dash
45	Bolutito Alade <i>Hampton University</i>	Cytotoxic Evaluation of HDAC Inhibitor Conjugated Prodrug Micelles for Doxorubicin Delivery Against Lung Cancer	Bolutito Alade, Jing Li, Ph.D, David Oupicky, Ph.D

Neurological Sciences			
#	Student	Title	Authors
46	Lauren Strzelecki <i>Creighton University</i>	Increased Cognitive Control and Reduced Emotional Interference is Associated with Reduced PTSD Symptom Severity in a Trauma-Exposed Sample: A Preliminary Longitudinal Study	Lauren R. Strzelecki, Stuart F. White, Michelle E. Costanzo, Laura C. Thornton, Alita M. Mobley, James R. Blair, Michael J. Roy
47	Mallory Feenstra <i>University of Nebraska-Omaha</i>	Associations Between Loneliness and Regional Brain Volumes in Youths	Mallory Feenstra, David Warren, Abi Heller, Tony Wilson, Vince Calhoun, Julia Stephen, Yu-Ping Wang, Janelle Beadle
48	Danielle Pham <i>Creighton University</i>	Brain correlates of memory ability in youth	Danielle Pham, Nicholas Christopher-Hayes, Anthony Rangel, Julia Stephen, Vince Calhoun, Yu-Ping Wang, Tony Wilson, David Warren
49	Sean Bresnahan <i>University of Nebraska-Omaha</i>	Utilizing the CRISPR/Cas9 System in Zebrafish to Investigate Somatic Hair Cell Function in Startle Response Behavior	Sean Bresnahan and Ryan Wong, PhD.
50	Sarah Monaghan <i>Carleton College</i>	The Effect of Age on Neural Oscillation during Performance of a Visual Selective Attention Task	Sarah Monaghan, Christine M. Embury, Alex I. Wiesman, Elizabeth Heinrichs-Graham PhD, Tony W. Wilson PhD
51	Boman Groff <i>University of Nebraska-Omaha</i>	Neural Oscillations During Attention Reorientation Distinguishes HIV-Infected Patients With and Without Cognitive Impairment	Boman Groff <sup>1,2,3</sup> , Elizabeth Heinrichs-Graham <sup>2,3</sup> , Christine M. Embury <sup>2,3</sup> , Amy L. Proskovec <sup>1,2,3</sup> , Nathan M. Coolidge <sup>1,2,3</sup> , Alex I. Weisman <sup>2,3</sup> , & Tony W. Wilson <sup>2,3</sup>
52	Hannah Bergwell <i>University of Nebraska-Omaha</i>	Ecologically relevant paradigm for assessing social olfaction in marmosets	Hannah Bergwell, Stephanie Womack, Dr. Jeffrey French

**PATHOLOGY/MICROBIOLOGY**

#	Student	Title	Authors
53	Dylan George <i>Peru State College</i>	The Lipid Sphingosine Kinases are associating with Stress Granules	Dylan George, Dianne Wellems M.S., St. Patrick Reid Ph.D.
54	Gunnar Orcutt <i>Peru State College</i>	Catabolism Of Glucogenic Amino Acids In Staphylococcus aureus	Gunnar J. Orcutt, Pooja Roy, Fareha Razvi, and Paul D. Fey

PEDIATRICS			
#	Student	Title	Authors
55	Pamela Diokpara <i>Young Harris College</i>	Autism in Pediatric Primary Care	Pamela Diokpara, Sydnie Gutzmann, Cynthia Ellis M.D., Howard Needleman M.D., Jane Meza, PhD., Arwa Nasir M.B.B.S., MSc., MPH
56	Liana Morales <i>The College of Saint Rose</i>	Effectiveness of D-Eye: Smartphone-Based Retinal Screening System in Diagnosing Idiopathic Intracranial Hypertension in a Pediatric Patient	Liana T. Morales, Linda Morgan, Donny W. Suh
57	Molly Hughes <i>University of Nebraska-Lincoln</i>	The Effect of Maternal Obesity on Infant Respiratory Status	Molly Hughes, Ann Anderson-Berry MD PhD, Corrine Hanson PhD, Matthew VanOrmer BS
58	Baily Janssen <i>South Dakota State University</i>	Otitis media prescribing practices in a pediatric clinical practice group	Baily Janssen and Dr. Jessica Snowden
59	Sofia Rahmanzai <i>University of Nebraska-Omaha</i>	Outcomes of Early Transition from Intravenous to Oral Antimicrobial Treatment in Pediatric Osteomyelitis	Sofia Rahmanzai, Charlie Treinen, M.S., H. Dele Davies, M.D., MHCM, Kari A. Simonsen, M.D., Jessica N. Snowden, M.D.
60	Alison Cunningham <i>Creighton University</i>	Management of the Premature Patent Ductus Arteriosus and Impact on Catheter Intervention	Alison Cunningham, Zahi Zeidan, MD, Christopher Curzon, DO, Scott Fletcher, MD, Jeffery Delany, MD, Vincent Thomas, MD, MHA
61	Sydnie Gutzmann <i>Drake University</i>	Lead Exposure from Indian Ceremonial Powders: Scope and Awareness	Sydnie Gutzmann, Pamela Diokpara, Arwa Nasir MD, Murty Adabala MD, Caitlin Pedati MD MPH
62	Justine Blumenstock <i>Nebraska Wesleyan</i>	Associations of Retinol Concentrations and Neonate Growth	Justine Blumenstock, Ann Anderson-Berry MD PhD, Corrine Hanson PhD
63	Caroline Kozlik <i>Regis University</i>	Utility of Multi-Institutional Databases for Procedures and Care: A Single Institution Experience Tracking Complications and Outcome for ECMO using the PEDECOR Database	Caroline Kozlik, Edward Truemper, Sara Mathews, and Bridget Norton
64	Abby Wolfe <i>Creighton University</i>	Prospective Control-and-Intervention Pilot Study to Measure the Impact of Massage Therapy on Pediatric Nurses Caring for Children Receiving Palliative Care	Abby Wolfe, Beverly Riley PTA, LMA, Christopher Wichman PhD, Sue Bace LICSW, ACHPC-SW, Meaghann Weaver MD, MPH

<b>PEDIATRICS</b>			
<b>#</b>	<b>Student</b>	<b>Title</b>	<b>Authors</b>
65	Gabriella Marco <i>Northwest Missouri State University</i>	Using PRAMS Data to Compare Rural vs. Urban Prenatal Care	Gabriella Marco, Carol S. Gilbert, MS
66	Garrett Sacco <i>Baylor University</i>	Maternal dietary diversity and neonatal birth weight in Gwagwalada, Nigeria	Sacco G, Delair SF, Kocmich N, Rezac-Elgohary A, Obaro S
67	Kevin Harkins <i>Hastings College</i>	Accuracy of a Commercial Automated Emboli Detection Software: Detection in Infants Undergoing Open Heart Surgery and Cardiopulmonary Bypass	Kevin Harkins, Max Twedt, Lauren Wondra, Edward Truemper, Greg Bashford
68	Richard M. Regester <i>University of Nebraska-Lincoln</i>	Comparison of 15 Lead to Standard 12 Lead ECG for Prediction of WPW Pathway Location	Richard M. Regester, Vincent C. Thomas, MD, LuAnn Mill, BSN, Christopher C. Erickson, MD
69	Brooke A. Zerbian <i>Creighton University</i>	Does Distance From a Cystic Fibrosis Treatment Center Influence Clinical Outcomes in a Pediatric Population?	Brooke Zerbian, Diane Acquazzino, B.S., Timothy Hallberg, M.S., Donald Coulter, M.D., Heather Thomas, M.D.
70	Jennifer McCormick <i>Creighton University</i>  Ruchika Khot <i>Wake Forest University</i>	Quality of Care for Patients with Complex Single Ventricle Anatomy Living in a Rural versus Urban Setting	Jennifer McCormick, Ruchika Khot, Jonathan Cramer MD, Anji Yetman MD
71	Ruchika Khot <i>Wake Forest University</i>  Jennifer McCormick <i>Creighton University</i>	Catheterization Risk Scoring for Adult Congenital Heart Disease	Ruchika Khot, Jennifer McCormick, Anji Yetman MD, Jonathan Cramer MD, Jeffrey Delaney MD
72	Kurt Knight <i>Midland University</i>	Association Between Respiratory Distress Syndrome And Maternal Factor	Kurt Knight, Ann Anderson-Barry MD PhD, and Corrine Hanson PhD
73	Brady Manker <i>Creighton University</i>	Gestation Length and Birthweight Affected by Omega-3 and Omega-6 Intake.	Brady Manker, Ann Anderson-Berry MD PhD, Corrine Hanson PhD

**PHARMACUTICAL SCIENCES**

#	Student	Title	Authors
74	Alyx J. Flippin <i>University of Central Missouri</i>	Folding Thermodynamics of Pseudoknots Containing a B/Z Junction	Alyx J. Flippin, Mikenzie Nordeen, Calliste Reiling-Steffensmeier, and Luis A. Marky
75	Noah Free <i>University of Nebraska-Lincoln</i>	Hyaluronic acid coated multimodal iron oxide nanoparticles: synthesis, characterization, and cytotoxicity	Noah Free, Nicholas Wojtynek, Joe Gerald Jesu Raj, Aaron M. Mohs, PhD
76	John Sowl <i>University of Nebraska-Lincoln</i>	Chol-miRNA Polyplexes to Improve the Treatment of High-Risk Neuroblastoma with RNA Interference	Joseph A. Vetro, PhD, Zhen Ye, M.S., John Sowl, Eli Lundak, Megan Troxel

**PHARMACOLOGY AND EXPERIMENTAL NEUROSCIENCE**

#	Student	Title	Authors
77	Xanthe Isabel Heifetz Ament <i>Mount Holyoke College</i>	Effect of Bone Marrow-Derived Dendritic Cell Supernatants on Neuroblastoma and Microglia Cell Lines	X. Isabel Heifetz Ament, Keith Prive, Charles Schutt, Rebecca A. Wilshusen, Kathrine Olsen, R. Lee Mosley and Howard E. Gendelman.
78	Keith Privé <i>Northern Kentucky University</i>	Bone Marrow-Derived Dendritic Cells Induces Th17 Cells Toward Regulatory T Cell Phenotype	Keith Privé, X. Isabel Heifetz Ament, Charles Schutt, Rebecca Wilshusen, R. Lee Mosley, Howard E. Gendelman

RADITAION ONCOLOGY			
#	Student	Title	Authors
79	Josiah McAllister <i>Concordia University</i>	Robustness Analysis of Radiomic Features Across Breathing Phases of 4DCT	Josiah McAllister, Michael Baine, Lina Yu, Hengle Jiang, Chi Zhang, Hongfeng Yu, and Dandan Zheng
80	Sean McDermott <i>University of Nebraska-Lincoln</i>	Discovery of Rac1 Inhibitors for Breast and Pancreatic Cancer	Sean McDermott, Ying Yan, Amarnath Natarajan, Ashley Hein, Nichole Schafer

**SURGERY**

#	Student	Title	Authors
81	Jacob Moore <i>University of Nebraska-Lincoln</i>	Application of Extracorporeal Membrane Oxygenation (ECMO) as a Bridge TO and FROM Cardiac Transplantation	Jacob Moore, Zachary Kwapnoski BS, Natalie Kamtz BA, John Um MD, Aleem Siddique MBBS, Timothy Ryan APRN, Liz Lyden MS, Michael Moulton MD, HelenMari Merritt DO
82	Benjamin Fletcher <i>Creighton University</i>	Effect of fundoplication on infants with pulmonary hypertension and gastroesophageal reflux disease	Benjamin Fletcher, Scott Fletcher MD, David Danford MD, and Stephen Raynor MD
83	Will Hausman <i>Rockhurst University</i>	Notch3 is Overexpressed in the Lung Tissue of Murine Marfan Syndrome Model	William J. Hausman, Katherine J. Schulte, Matthew P. Fitzgerald, Wanfen Xiong, Timothy B. Baxter
84	Emily Jezewski <i>University of Nebraska-Lincoln</i>	Marital Status and the Effects on Caregiver Support and Early Hospital Readmission following Deceased Donor Renal Transplant	Emily Jezewski, Elizabeth Lyden, M.S., Arika Hoffman, MD

**TRAVIS B. LEWIS**

#	Student	Title	Authors
85	Shruti Mishra <i>Lincoln East High School</i>	A Methods Comparison of the Isolation of Extracellular Vesicles	Shruti Mishra, Sowmya Yelamanchili