

SCHOLARLY PRODUCTS 2017  
ND INBRE: HEALTH AND THE ENVIRONMENT  
P20GM103442

**Minot State University**

Buchholz A, Kraft A, Nespor B, Zabka B, Cole-Harding S, Winburn N. Time intervals of caffeine concentrations extracted from human saliva analyzed by GC/MS.  
109<sup>th</sup> Annual Meeting of North Dakota Academy of Science, April 2017.

Hassan I, Schmidt B. Does lactoferrin affect yeast infection?  
109<sup>th</sup> Annual Meeting of North Dakota Academy of Science, April 2017.

Kraft A, Buchholz A, Nespor B, Zabka B, Cole-Harding S, Winburn N. Optimization of caffeine analysis from human saliva using GC/MS.  
109<sup>th</sup> Annual Meeting of North Dakota Academy of Science, April 2017.

Shipunov A, Alonso JLF, Hassemer G, Alp S, Lee HJ, Pay K. Phylogeny of Plantagineae (Plantaginaceae lamilaes)  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Sundhagen SE, Bobyleva LI, Bobylev MM. Rapid Synthesis of N-methyl-N-(2-nitrobenzyl)formamide  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Lee HJ, Bobyleva LI, Bobylev MM. Rapid synthesis of N-(2-fluorobenzyl)-N-methylformam  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Dostert-Azzarello TA, Bobyleva LI, Bobylev MM. Rapid Synthesis of N-methyl-N-(2-trifluoromethylbenzyl)formamide  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Hernandez ERA, Bobyleva LI, Bobylev MM. Rapid Synthesis of N-methyl-N-(4-nitrobenzyl)formamide  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Heick KH, Bobyleva LI, Bobylev MM. Rapid synthesis of N-(9-anthrylmethyl)-N-methylformamide  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Torgunrud JL, Bobyleva LI, Bobylev MM. Rapid synthesis of N-(4-methoxybenzyl)morpholine  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Park SY, Bobyleva LI, Bobylev MM. Rapid synthesis of N-methyl-N-(4-trifluoromethylbenzyl)formamide  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Gooding JR, Bobyleva LI, Bobylev MM. Rapid synthesis of N-(10-chloro-9-anthrylmethyl)-N-methylformamide  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Skinner TA, Bobyleva LI, Bobylev MM. Rapid Synthesis of N-(3-fluorobenzyl)-N-methylformamide  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Gudejko M, Bobyleva LI, Bobylev MM. Rapid Synthesis of N-methyl-N-(4-phenylbenzyl)formamide  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Rodgers MD, Bobyleva LI, Bobylev MM. Rapid synthesis of N-methyl-N-(3-nitrobenzyl)formamide  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Kraft A, Nesor B, Cole-Harding S, Winburn N. Carbonation Effects on Caffeine Concentrations Extracted from Human Saliva Analyzed by GC/MS  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Clark P, Kraft A, Nesor B, Cole-Harding S, Winburn N. Time Interval Analysis of Caffeine Concentration in Human Saliva Utilizing GC/MS  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Keller CP, Adeleke AF. Determining the Role of Known Auxin Receptors in Aspects of Development in the Plant Arabidopsis  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Heimdal KK, Hernandez ERA, Super HJ. Effects of Epigenetic Modifier Inhibitors on AML Cell Sensitivity to Differentiation Therapy  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Ghimire B, Casiquin C, Schmidt B, Mojica E, Houlton S, Hellmuth L, Phillips TJ, Shabani S. Depression-like symptoms associated with acute and prolonged methamphetamine withdrawal in a mouse model for binge methamphetamine intake  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Shabani, S., Ghimire, B., Schmidt, B., Mojica, E., Houlton, S., Phillips-Richards, T. Depression like symptoms associated with acute and prolonged methamphetamine withdrawal in a mouse model for binge methamphetamine intake.  
Society for Neuroscience Annual Meeting, November 2017

## **Valley City State University**

Bilski J. Teaching students through research at Valley City State University; supported by North Dakota INBRE program, funded by the National Institutes of Health.  
Academic Organization for Advancement of Strategic and International Studies, January 2017.

Krueger I, Hone S, Tangen J, Langdeaux R, Bilski J. Determining Toxicity of Boron in Coal Ash Used as Plant Growth Media.  
109<sup>th</sup> Annual Meeting of North Dakota Academy of Science, April 2017.

Rowell J., Bilski J. Environmentally friendly approach to coal ash utilization.  
109<sup>th</sup> Annual Meeting of North Dakota Academy of Science, April 2017.

Brown J, Berens J, Dissette N, Dobmeier A, Farnsworth A, Fergel A, Gangl D, Hager A, Hoggarth C, Hone SD, Ilogu C, Kraft C, Kruger I, Kyei-Asare F, Lander M, Langdeaux R, Meyer B, McLean E, McLean K, Metzen G, Nelson E, Ostgarden J, Rowell J, Scheen A, Soumaila F, Tangen J, Zimmer P, Bilski J.  
The update of the “coal ash” undergraduate research at VCSU, supported by North Dakota INBRE program funded by the National Institutes of Health (NIH).  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Krueger I, Brown J, Hone S, Langdeaux R, Metzen G, Rowell J, Bilski J. Determining toxicity of vanadium in coal ash used as plant growth media.  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Krueger I, Brown J, Hone S, Langdeaux R, Metzen G, Rowell J, Bilski J. Determining toxicity of strontium in coal ash used as plant growth media.  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Metzen G, Brown J, Krueger I, Rowell J, Bilski J. Coal ash and human health.  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Rowell J, Brown J, Krueger I, Metzen G, Bilski J. The application of phytoremediation to stabilize coal fly ash (FA) landfills.  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Engelhard CR, Olson MA, Schlecht JN, Pavlenko SL, Keasler SJ. Computer Simulations of Atmospheric Aerosol Formation  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

## **Dickinson State University**

Hondl C, Frederick A, Goguen O, Lantis D, Whippo CW, Steffan JJ. Arabidopsis-Bacterial Interactions in Western North Dakota Sodic Soils  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

## **Mayville State University**

Pollack S, Dearinger S, Vonesh E, Hossain K. Epigenetic and Protein Expression Changes in Common Bean Induced by Higher Concentration of Fe and Zn.  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Mehus C, Torgerson H, Quadir M, Hossain K. The Isolation and Characterization of Bio-based Nanoparticles and their Uptake and Translocation in Common Bean Tissue  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Ogburn KS, Ness HM, Gonnella TP. Kinetic Modeling of the Substrate Inhibition of Mitochondrial Aldehyde Dehydrogenase (ALDH2) in the Presence of Magnesium Ion  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Leschied CM, Nelson AE, Gonnella TP.  
Examining the Effect of Magnesium Ion on Aldehyde Dehydrogenase Class 1/2 Inhibitor Efficiency and Selectivity  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Slaba MR, Nelson AE, O'Brien KJ, Mehus JO.  
Revisiting Stagnicola elodes Embryo Dosage Dependent Mortality Rates in Response to Chronic Cadmium Exposure  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Dearinger S, Torgerson H, Mallick S, Andrianova AA, Kubatova A, Hossain K.  
Chickpeas as an Alternative and Inexpensive Source for Maintaining Human Health  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

## **Turtle Mountain Community College**

### **Cankdeska Cikana Community College**

Bercier NA, Voels BJ. A preliminary investigation into metallothionein-3's influence on the expression of GAGE antigens in MCF7 cells.  
5<sup>th</sup> Annual North Dakota Tribal College Research Symposium 2017  
AIHEC Spring Student Conference, March 2017

Robertson AM, Voels BJ. The unique N- and C-terminal domains of metallothionein-3 influence the expression of GAGE antigens 12H, 12G, 12C, and 2C in MCF7 cells.  
5<sup>th</sup> Annual North Dakota Tribal College Research Symposium 2017

Charboneau A, Voels B. Expression of GAGE1 and GAGE2A in Estrogen Receptor Positive and Negative Breast Cancer Cell lines  
2017 UND SMHS Summer Undergraduate Research Symposium  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Leaf C, Voels B. Expression of GAGE2B and GAGE2C in Estrogen Receptor Positive and Negative Breast Cancer Cell lines  
2017 UND SMHS Summer Undergraduate Research Symposium  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Greywater D, Voels B.  
Expression of GAGE12C and GAGE12D in Estrogen Receptor Positive and Negative Breast Cancer Cell Lines Does Not Correspond to Estrogen Receptor Status  
2017 UND SMHS Summer Undergraduate Research Symposium  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

### **Nueta Hidatsa Sahnish College (Fort Berthold Community College)**

#### **Sitting Bull**

Lupe C, Mongoh MN. Bison Health: Bovine Viral Diarrhea (BVD) in Bison herds on Standing Rock Sioux Reservation  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

#### **University of North Dakota**

Germundson D, Nagamoto-Combs K. Food sensitization alters innate behavior and brain cell dynamics in a mouse model of milk allergy.  
109<sup>th</sup> Annual Meeting of North Dakota Academy of Science, April 2017.

Han J, Wang Y, Zhao JX, Pierce DT. Characterization of gold nanoparticles using SP-ICP-MS.  
109<sup>th</sup> Annual Meeting of North Dakota Academy of Science, April 2017.

Allery M, Hill KX, Gray JS, Malevich C, Young A, Petros T. American Indian and Caucasian College Students' Stress and Anxiety Differences  
2017 UND SMHS Summer Undergraduate Research Symposium

Bauer C, Osowski DB, Shrestha S, Garrett SH. Expression of IL6 and IL8 in RPTEC/hTERT1 cells when exposed to cadmium  
2017 UND SMHS Summer Undergraduate Research Symposium  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Black EM, Rodriguez MA, Henry LK. Examining DNA Methylation Patterns at *Fkbp2* and *Bdnf* in Neonate Mice Treated with Citalopram  
2017 UND SMHS Summer Undergraduate Research Symposium

Bonilla C, Gray JS, Malevich C, Young A, Petros T. Cultural Identity: Trending Protective Factor Against Substance Use & Paranoia  
2017 UND SMHS Summer Undergraduate Research Symposium

Braaten KC, Hoggarth ZE, Slusser-Nore A. HSP90AA1 and HSPA8 expression in response to acute cadmium exposure

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9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Brabble C, Singh S, Rhen T. Assessing Sox9 Protein Expression during the Thermosensitive Period of Embryonic Gonad Development in the Common Snapping Turtle, *Chelydra serpentina*

2017 UND SMHS Summer Undergraduate Research Symposium

Briese MJ, Osowski DB, Shrestha S, Garrett SH. Response of SERPINE1 and GPC3 in the kidney to chronic cadmium exposure

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Brumbaugh B, Osowski DB, Shrestha S, Garrett SH. SLC11A2 and CAT Expression in Renal hTERT Cells Acutely Exposed to Cadmium

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Carson T, Freeberg BA, Somji S. Role of Anti-apoptotic Genes in Acute Cadmium-induced Nephrotoxicity in Human Proximal Tubule Cells

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Christenson H, Freeberg BA, Somji S. Expression of ATG7 and ATG3 genes in human proximal tubules under cadmium stress

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Corum NJ, Hoggarth ZE, Slusser-Nore A. Expression of the immediate early genes FOS, JUN, and MYC in RPTEC/TERT1 cells following acute cadmium exposure

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

DeBeltz CM, Osowski DB, Shrestha S, Garrett SH. Expression of chemokines CXCL2 and CXCL3 after chronic exposure to cadmium

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Doyle P, Smith N, Germundson D, Nagamoto-Combs K. Food allergy-induced gastrointestinal inflammation result in behavioral abnormalities and associated differential expressions of Th1 and Th2 inflammatory cytokines and tight junction proteins.

2017 UND SMHS Summer Undergraduate Research Symposium

Ellingson C, Freeberg BA, Somji S. Effects of cadmium exposure on expression levels of DMT1 and BCL2L1 genes in RPTEC/TERT1 cells.

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Falcon E, Osowski DB, Shrestha S, Garrett SH. Expression of HSP60 (gene HSPD1) and HSP70 (gene HSPA1A) by human proximal tubule cells (hTERT) cells following acute exposure of cadmium concentrations.

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Hajostek A, Stanislawski DJ, Hovd MJ, Foster JD. Does Ca<sup>2+</sup>/Calmodulin-Dependent Protein Kinase II Mediate Dopamine Transporter Palmitoylation?

2017 UND SMHS Summer Undergraduate Research Symposium

Hammons N, Freeberg BA, Somji S.

The expressions of RYR1, FCRLA, SLC2A4, and VAV3 in RPTEC/TERT1 when induced with cadmium.

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Horner A, Osowski DB, Shrestha S, Garrett SH. The Roles of Solute Carrier Family 39 Members 8 and 14 (SLC39A8 and SLC39A14) Genes in Renal Proximal Tubule Reuptake of Cadmium.

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Jiran A, Hoggarth ZE, Slusser-Nore A. Effects of chronic cadmium exposure on HIF1A and AURKA.

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Kasti K, Milavetz B, Ajeet M. Nucleosome positioning and histone modification in relation to the repression of early and late transcription during SV40 infection.

2017 UND SMHS Summer Undergraduate Research Symposium

Kern H, Hoggarth ZE, Slusser-Nore A. Expression of SEMA3A and SEMA5A in cadmium exposed kidney cells.

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Knauth, TP, Biggane JP, Dent ZO, Perez DM, Doze VA.

Alpha 1A-adrenergic receptor subtype activation reduces, knock-out increases, epileptiform event frequency in the murine hippocampal CA3 region.

2017 UND SMHS Summer Undergraduate Research Symposium

Kretschmar M, Hoggarth ZE, Slusser-Nore A. GPR37 and GPR161 expression in human proximal tubule cells exposed to cadmium.

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

LaRocque C, Bluehouse R, Morgan RO, Gray JS, Malevich C, Petros T, Young A.

Relationship between health & technology among Native American elders.

2017 UND SMHS Summer Undergraduate Research Symposium

Larson C, Freeberg BA, Somji S. Chronic Cadmium Exposure in Human Proximal Tubule Cells and its effects on expression of Solute Carriers.

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Meduna LL, Smith N, Germundson DL, Nagamoto-Combs K. Food allergy-induced changes in indoleamine-2-3-dioxygenase expression in the intestines of

$\beta$ -lactoglobulin-sensitized mice: a potential role in tryptophan metabolism.

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Millette E, Xiang M, Zhang KK. High fat diet induces Bacteroides and inhibits Prevotella in mouse gut.

2017 UND SMHS Summer Undergraduate Research Symposium

Nelson J, Hoggarth ZE, Slusser-Nore A. Acute cadmium exposure on expression of SLC39A8 and SLC39A14.

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Oancea SC, Peltier C. The effect modifying role of cancer diagnosis on the association between diabetes and depression among adult individuals residing in Brazil.

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Peterson K, Osowski DB, Shrestha S, Garrett SH. Expression of INHBA and NFKB1 in hTERT cells.

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Quick JE, Cox JM, Michelson KM, Trivedi R, Darland DC. An exploration of forebrain development: Vascular microenvironment influence and significance of epigenetic modifications.

2017 UND SMHS Summer Undergraduate Research Symposium

Relling P, Xiang M, Zhang KK. Maternal weight gain accurately predicts mouse pregnancy.

2017 UND SMHS Summer Undergraduate Research Symposium



Rios A, Osowski DB, Shrestha S, Garrett SH. Role of Superoxide Dismutase in Response to Kidney Proximal Tubule Cells Exposed to Cadmium.

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Schafer J, Osowski DB, Shrestha S, Garrett S. Chronic Cadmium Exposure on the Gene Expression of SQSTM1 and NFE2L2.

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Sudue JB, Freeberg BA, Somji S. The expression of the MT-1G and MT-1F genes when exposed to cadmium in human proximal tubule cells.

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Schlichting A, Freeberg BA, Somji S. Gene expression of CAT and SOD2 under chronic cadmium exposure.

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Seymour SC, Simmons R.

Sex determination using dsx gene expression in white marked tussock moth caterpillars.

2017 UND SMHS Summer Undergraduate Research Symposium

Slaubaugh K, Hoggarth ZE, Slusser-Nore A. Effects of chronic cadmium exposure on ENO2 and KIM1 in RPTEC/TERT1 cells.

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Sohail I, Hoggarth ZE, Slusser-Nore A. Expression of SOD1 and BCL2 in RPTEC/TERT1 cells exposed to various levels of cadmium.

2017 UND SMHS Summer Undergraduate Research Symposium

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Stentstrom C, Gray J, Malevich C, Young A, Petros T. Identifying strengths: Community and spirituality in Northern Plains Indian Tribes.

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Wherley SL, Hoggarth ZE, Slusser-Nore A. Varying expression of SQSTM1 and NFE2L2 resulting from acute cadmium exposure

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9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Wieser J, Freeberg BA, Somji S. Metallothionein -1E and -2A gene expression in commercial kidney proximal tubule cell line RPTEC/TERT1 in response to long-term cadmium exposure. 2017 UND SMHS Summer Undergraduate Research Symposium  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Wilander B, Freeberg BA, Somji S. Effects of cadmium exposure on expression of Interleukin-1-Beta and Tumor Necrosis Factor-Alpha in RPTEC/HTERT1 cells. 2017 UND SMHS Summer Undergraduate Research Symposium  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Smith NA, Germundson DL, Doyle PH, Nagamoto-Combs K. Transcriptional and Behavioral Changes Associated with Milk Allergy-Induced Peripheral Inflammation  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Germundson DL, Vendsel LP, Combs CK, Nagamoto-Combs K. Oral sensitization to whey proteins induces age-and gender-dependent behavioral abnormality and neuroinflammatory responses in an animal model of food allergy: a potential role of mast cells.  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Zheng Y, Oancea SC, Zhou X, Sens MA. Successful Use of the Cancer Registry Data for the Cancer Research in North Dakota.  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Freeberg BA, Hoggarth Z, Osowski DB, Garrett SH, Sens DA, Zhang K, Somji S. Characterization of Subcutaneous Heterotransplant Tumors and Spheroids Generated from Malignantly Transformed UROtsa Bladder Cancer Cells.  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Larson C, Freeberg BA, Somji S. Chronic Cadmium Exposure in Human Proximal Tubule Cells and its effects on expression of Solute Carriers.  
2017 UND SMHS Summer Undergraduate Research Symposium  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Osowski DB, Freeberg BA, Hoggarth ZE, Garrett SH, Sens DA, Zhang K, Somji S. As3+- and Cd2+- transformed UROtsa isolates characterized into basal and luminal muscle-invasive bladder cancer subtypes.  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Davis BA, Garrett SH, Sens DA, Somji S. Prolong Hyperglycemic Exposures Induce Pathological Changes in Human Proximal Tubule Cells.  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Biggane ER, Somji S, Garrett SH, Sens DA, Dunlevy JR. SPARC in a Cell Culture Model of Heavy Metal Induced Bladder Transitional Cell Carcinoma.  
9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Shrestha S, Garrett SH, Sens DA, Somji S. An in-vitro human proximal tubule model to study toxic effects of cadmium.

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Hoggarth ZE, Freeberg BA, Osowski DB, Garrett SH, Sens DA, Zhang K, Somji S. Bladder Cancer Subtype Characterization in Spheroids and Tumors Generated from As<sup>3+</sup> and Cd<sup>2+</sup> Malignantly Transformed UROtsa Cell Isolates.

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Kern H, Hoggarth ZE, Slusser-Nore A. Expression of SEMA3A and SEMA5A in cadmium exposed kidney cells.

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9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Klatt EE, Darby BJ. Detecting mitochondrial heteroplasmy or nuclear insertions of the D-loop control region of muskrats (*Ondatra zibethicus*).

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9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Miller ZJ, Snow EL, Ruit KG. Influence of Self-Assessment, Instructor Feedback and Control Beliefs About Learning on Student Confidence and Academic Performance.

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9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Wu J, Xiang M, Olson P, Zhang K. Maternal Cadmium Exposure Induced Fetal Ventricular Hypertrophy in Mouse.

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017

Xiang M, Lie J, Xie L, Zhang K. Global DNA methylation and gene expression map subpopulations in the developing heart.

9<sup>th</sup> Annual ND INBRE Undergraduate Research Symposium, October 2017