

SCHOLARLY PRODUCTS 2014
ND INBRE: HEALTH AND THE ENVIRONMENT
P20GM103442-14

POSTERS (undergraduates are underlined)

Minot State University

Mayhew J, Zabka B, Nespor B, Cole-Harding S, Winburn N. Extraction and Concentration of Caffeine from Artificial Saliva for GC/MS Analysis.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Super HJ, Schillo J, Drobroski MA. Analyzing Chromatin Accessibility In The Myeloid-Lymphoid Leukemia Gene Chromosome Translocation Breakpoint Cluster Region.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Lee HJ, Choi JH, Aguilar KK, Shipunov A. Phylogeny of plantains (Plantago L., Plantaginaceae): All that is gold does not glitter? Herbarium samples and DNA phylogeny.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Perry R, Shipunov A. A Survey of the Vascular Flora of the Pembina Gorge in Cavalier County, North Dakota.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Ayinla EK, Royer R, Lepp PW. Survey of Bacterial Species Diversity in Hard-bodied Ticks.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Dockter K, Bobyleva LI, Bobylev MM. Rapid synthesis of N-(2-hydroxybenzyl)acetamide.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

9th Annual Northwest Regional Undergraduate Affiliate Network Meeting (Travel Award winner to ACS National Meeting).

2014 Minot State University Research Poster Session.

Falkenberg MA, Collins JA, Bobyleva LI, Bobylev MM. Acetamide as a solvent in the rapid synthesis of N-(2,4-dichlorobenzyl)formamide.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Gillis N, Bell M, Bobyleva LI, Bobylev MM. Rapid synthesis of N,N-dipiperonylformamide.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Lee HJ, Bobyleva LI, Bobylev MM. Rapid synthesis of N,N,N-tri-(1-naphthylmethyl)amine.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

9th Annual Northwest Regional Undergraduate Affiliate Network Meeting.

O'Keefe K, Bobylev MM. Rapid Synthesis of N-(4-chlorobenzyl)-N-methylformamide.
6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.
9th Annual Northwest Regional Undergraduate Affiliate Network Meeting.
2014 Minot State University Research Poster Session.

Olson SW, Bobylev MM. Rapid synthesis of N,N'-(4-chlorobenzylidene)-bis-formamide.
6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.
9th Annual Northwest Regional Undergraduate Affiliate Network Meeting.
2014 Minot State University Research Poster Session.

Park SY, Bobyleva LI, Bobylev MM. Rapid synthesis of N,N,N-tri(4-t-butylbenzyl)amine.
6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Richardson AE, O'Keefe K, Bobyleva LI, Bobylev MM. Rapid Synthesis of N,N-di-(4-chlorobenzyl)formamide.
6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Bell MA, Gillis N, Bobyleva LI, Bobylev MM. Rapid synthesis of N,N-dipiperonylformamide.
9th Annual Northwest Regional Undergraduate Affiliate Network Meeting.

Collins JA, Falkenberg MA, Bobyleva LI, Bobylev MM. Acetamide as a solvent in the rapid synthesis of N-(2,4-dichlorobenzyl)formamide.
9th Annual Northwest Regional Undergraduate Affiliate Network Meeting.

Ekasi N, Zerr J, Keller C. The Effect of Light Intensity on Control of Leaf Expansion by Indole-3-acetic Acid in *Arabidopsis*.
6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Zerr J, Ericson L, Keller C. Is There a Role for Jasmonates in the Hormonal Control of Leaf Expansion in *Arabidopsis*?
6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Mayville State University

Ness HM, Nygard JE, Gonnella TP. The Effect of Magnesium Ion on Substrate Inhibition of Mitochondrial Aldehyde Dehydrogenase.
6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Ogburn KS, Russell WE, Gonnella TP. Assessing the Degree of Protection Bound NADH Provides Mitochondrial Aldehyde Dehydrogenase from 4-Hydroxy-2-nonenal Inactivation.
6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Nelson C, Berven A, Ziemer C, Mehus JO. Dosage Dependent Mortality Rates of *Stagnicola elodes* Embryos to Cadmium.
6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Bauduin M, Shimpa L, Johnson MA, Hossain K. Influence of Increased Concentration of Fe and Zn on Different Health Related Mineral Concentrations among Common Bean Genotypes. 6nd Annual ND INBRE Undergraduate Research Symposium, October 2014. NISBRE Symposium, June 16-18.

Maren A Johnson MA, Bauduin M, Shimpa L, Hossain K. Application of Higher Concentration of Zn Influences DNA Methylation in Plant Genome. 6nd Annual ND INBRE Undergraduate Research Symposium, October 2014. Plant and Animal Genome Meeting. Jan, 2015.

Valley City State University

Bilski J. Environmental health of coal fly ash (FA) phytoremediation, biofuel production, and plants biofortification (2014-2018). 6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Bilski B, McLean K, McLean E, Soumaila F, Kraft C, Jacob D. Implications for water and soil contamination by coal fly ash disposal. Association for Environmental Health and Sciences Association Conference, San Diego, 2014.

Bilski J, Jacob D. Undergraduate Teaching Through Research Related To Environment And Human Health. Proceedings of the Clute Institute International Academic Conference, Orlando, 2014.

Hecker G, Bilski J. Environmental toxicology and coal fly ash chemical composition. Proceedings of the 106th Annual meeting of North Dakota Academy of Science, 2014.

Hoggarth C, Meyer B, Bilski J. Toxicological analysis of coal fly ash (FA) used as plant growth media. Trace elements from Group IV: titanium (Ti) and zirconium (Zr), from Group V: vanadium (V), and from Group VI: chromium (Cr) and molybdenum (Mo). Proceedings of the 106th Annual meeting of North Dakota Academy of Science, 2014.

Dickinson State University

Petersen M, Miller K, Pounds S, Shaughnessy M, Whippe C. Survey of 'fringe' mammals in western North Dakota. 6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Joshua J. Steffan JJ, Molly J. Reisenauer MJ, Christian M. Sims CM. Cloning and analysis of the promoter region of the c-Met gene in *Homo sapiens* in response to an acidic tumor microenvironment. 6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Steffan JJ, Zumwalt C. Chronic acidic extracellular pH increases prostate tumor cell motility and invasion through the up-regulation of the tyrosine kinase c-Met. 6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Burgess LC, Steffan JJ, Hasskamp L. Exuberant Granulation Tissue: A Study of Vascular Structure in Diseased and Normal Equine Tissues.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Burgess LC, Shanta Zietz S. A Method for Culturing Endothelial Cells from Equine Exuberant Granulation Tissue.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Burgess LC, Steffan JJ, Hasskamp L. Exuberant granulation tissue: A study of the vascular structure in diseased and normal horse tissues.

Keystone Symposium "Metabolism and Angiogenesis" Whistler, BC, Canada, 2014.

Turtle Mountain Community College

Jerome D, Best LG. A Variant of the C-Reaction Protein gene (rs2027471) is not Associated with Risk of Pre-Eclampsia in an American Indian Population.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Best LG, Haack K, Martin C, Falcon G, Keplin K, Cole SA. Novel sequences of the C-Reactive Protein Gene among an American Indian Population.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Azure A, Parisien A, Peltier K, LaVallie A, Davis B, Garrett S, Sens DA. Expression of Genes TRIB3 and DDR1 in Kidney PT Cells in Response to Elevated Levels of Glucose.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

LaVallie A. Mechanisms of gene expression in an in vitro model of metal-induced cellular change.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

AISES Conference November 2014.

Cankdeska Cikana Community College

Azure L, Boeckel J, Griffin J, Harding T, Leban L, McKay L, Simonsen J, Ploium T, Conway P. Factors that Influence Behavioral Health in a Tribal Community College.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Conway P, Cisek K, Olimb S, Wages J, Doze VA, Sens DA. Academic and Career Outcomes of NDINBRE Students from Rural and Tribal Communities.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

North Dakota State University

Tracy M, Kissoon LT, Passolt H, Jacob D, Otte M. Lemna minor growth: ZnO nanoparticles in lake water and nutrient solution.

Northern Plains Biological Symposium, Fargo, April 2014.

Passolt H, Werkmeister C, Cihacek L, Otte ML, Jacob DL. Cadmium, Uranium and Zinc: Variation of metal concentrations among disturbed and undisturbed prairie pothole wetlands. North Dakota Water Quality Monitoring Council Conference, Bismarck, 2014.

Alroobi R, Salem S. Discovering Dysregulated Phenotype-Related Gene Patterns. Proceedings of the 5th ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM BCB), September 2014.

Anderson J, Salem S, Do H. Improving the Effectiveness of Test Suite Through Mining Historical Data. Proceedings of the 11th Working Conference on Mining Software Repositories (MSR'14; co-located with ICSE2014), May 2014.

University of North Dakota

Delonais CJ, Manocha GD, Puig KL, El-Rewini Z, Kulas JA, Combs CK. Amyloid Beta Effects on Oral Bacterial Growth and Dental Caries in a Mouse Model. 6nd Annual ND INBRE Undergraduate Research Symposium, October 2014. 2014 UND SMHS Summer Undergraduate Research Symposium

Michelson K, Snyder S, Tkach E, Darland D. Making it work: neural stem cell culture analysis. 6nd Annual ND INBRE Undergraduate Research Symposium, October 2014. 2014 UND SMHS Summer Undergraduate Research Symposium

Snyder SD, Cain JT, Crawford NF, Darland DC. Making a brain in a dish: Cortical neural stem cell fate decisions are influenced by vascular cells through epigenetic mechanisms. 6nd Annual ND INBRE Undergraduate Research Symposium, October 2014. Epigenetics and Epigenomics Symposium, Grand Forks, 2014.

Espinoza A, Poitra S, Beckmann M, Mersereau E, Darland T. The Effects of Cadmium on Early Brain Development in Zebrafish and Possible Rescue with Selenium. 6nd Annual ND INBRE Undergraduate Research Symposium, October 2014. 2014 UND SMHS Summer Undergraduate Research Symposium

Collette K, Krueger E, Thorsen A, Goldenstein B, Perez D, Doze VA. Lack of alpha1A or alpha1B adrenergic receptor function does not affect depression and anxiety in the young mouse 6nd Annual ND INBRE Undergraduate Research Symposium, October 2014. 2014 UND SMHS Summer Undergraduate Research Symposium

Gerving M, Biggane JP, Perez D, Garrett S, Doze VA. Levels of BDNF and MT3 Expression in the α_{1A} -Adrenergic Receptor Pathway. 6nd Annual ND INBRE Undergraduate Research Symposium, October 2014. 2014 UND SMHS Summer Undergraduate Research Symposium

Khan FN, Biggane JP, Perez D, Collette KM, Doze VA. Cpe Expression in Adult Mice with

Chronically Activated α_{1A} -Adrenergic Receptors.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

2014 UND SMHS Summer Undergraduate Research Symposium

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Krueger EE, Thorsen AJ, Collette KM, Perez DM, Doze VA. Effects of α_{1A} AR Knockout on Anxiety and Depression.

2014 UND SMHS Summer Undergraduate Research Symposium

Melvin JE, Biggane JP, Perez D, Collette KM, Doze VA. Expression of Dlx2 and Prkcz in Adult Mice with Constitutively Active Mutant α_{1A} -Adrenergic Receptors.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

2014 UND SMHS Summer Undergraduate Research Symposium

Monson SM, Biggane JP, Collette KM, Perez D, Doze VA. Expression Levels of Notch1 and Jagged1 in Adult Mouse Brains with Constitutively Active Mutant α_{1A} -Adrenergic Receptors.

2014 UND SMHS Summer Undergraduate Research Symposium

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Rodriguez AR, Biggane JP, Collette KM, Perez DM, Doze VA. Noggin and Npas3 Expression in Adult Mice with Constitutively Active Mutant α_{1A} - Adrenergic Receptors.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

2014 UND SMHS Summer Undergraduate Research Symposium

Schlenvogt J, Biggane JP, Collette KM, Perez D, Doze VA. Sonic Hedgehog and Mash1 Regulation in Murine α_{1A} – Adrenergic Receptors.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

2014 UND SMHS Summer Undergraduate Research Symposium

Thorsen AJ, Krueger EE, Collette KM, Perez D, Doze VA. Preliminary Results on the Effect of Knocking Out α_{1A} and α_{1B} Adrenergic Receptors.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

2014 UND SMHS Summer Undergraduate Research Symposium

Cyr SB, Somji S, Garrett SH, Slusser AM, Dunlevey JR. Expression of CCL20, IL8, and CXCL1 in As⁺³ and Cd⁺² Transformed & Commercial Breast Cancer Cell Lines.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

2014 UND SMHS Summer Undergraduate Research Symposium

Enzminger DM, Slusser AM, Garrett SH, Somji S, Dunlevey JR. Exposure of Keratin and Cadherin Genes to Heavy Metals and the Potential Link to Breast Cancer.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

2014 UND SMHS Summer Undergraduate Research Symposium

Lilak SL, Slusser AM, Garrett SH, Somji S, Dunlevey JR. Expression of Fibronectin, Osteopontin and Laminin- β 3 as Potential Bio-Markers in Breast Cancers.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.
2014 UND SMHS Summer Undergraduate Research Symposium

Lothert PR, Slusser AM, Garrett SH, Somji S, Dunlevy JR. Interleukins Activated by Heavy Metal Exposure May Correlate as Biomarkers for Breast Cancer.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.
2014 UND SMHS Summer Undergraduate Research Symposium

O'Connor KM, Somji S., Garrett SH, Slusser AM, Dunlevy JR. Expression of KRT15, SPRR1B and COL3A1 in Arsenite (As³⁺) and Cadmium (Cd²⁺) Transformed Breast Cells.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.
2014 UND SMHS Summer Undergraduate Research Symposium

Rodriguez R, Slusser AM, Garrett SH, Somji S, Dunlevy JR. Cytokeratins as Potential Biomarkers in Breast Cancer.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.
2014 UND SMHS Summer Undergraduate Research Symposium

Zaffran K, Somji S, Garrett SH, Slusser AM, Dunlevy JR. Heparan Sulfate Proteoglycans: Viable Components of Metastatic Breast Cancers.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.
2014 UND SMHS Summer Undergraduate Research Symposium

Slusser JR, Stanislawski DJ, Vaughan RA, Foster JD. Purification of 6XHis-tagged rat DAT and subsequent analysis by Mass Spec for identification of DAT palmitoylation sites.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.
2014 UND SMHS Summer Undergraduate Research Symposium

Afonya B, Sandquist E, Sens DA, Garrett S. EPHB2 and GAL3ST1 Expression in MT3-Transfected HK-2 cells and Cadmium Exposed Human Proximal Tubule Cells.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.
2014 UND SMHS Summer Undergraduate Research Symposium

Erickson B, Sandquist E, Sens DA, Garrett SH. Expression of NTN-1 and NES in Cadmium (Cd²⁺) treated human proximal tubule cells and Metallothionein isoform 3 transfected cells.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.
2014 UND SMHS Summer Undergraduate Research Symposium

Hagley S, Sandquist E, Sens DA, Garrett SH. LEFTY2 and TRIP10 Expression in MT-3-Transfected and Cadmium-Exposed Human Proximal Tubule Cells.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.
2014 UND SMHS Summer Undergraduate Research Symposium

Hepper D, Sandquist E, Garrett S. Expression of TRIB3 and IL-17a in Cadmium-Treated HPT and HK2-MT3 Cells.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

2014 UND SMHS Summer Undergraduate Research Symposium

Johnson B, Sandquist E, Sens DA, Garrett SH. TLR2 Expression in MT-3 Transfected HK-2 and Cadmium-Exposed Human Proximal Tubule Cells.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

2014 UND SMHS Summer Undergraduate Research Symposium

Sand M, Sandquist E, Sens DA, Garrett SH. Expression of ENT1, and SOCS3 in Cd⁺² Exposed HPT and MT3 Transfected HK2 Cells.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Sandquist E, Somji S, Sens DA, Garrett SH. N-cadherin upregulation and EMT progression in As³⁺ and Cd²⁺-transformed urothelial cells.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

2014 UND SMHS Summer Undergraduate Research Symposium.

Society of Toxicology Meeting, Phoenix, 2014.

Schroeder N, Sandquist E, Sens DA, Garrett S. Expression of DDR1 and ERBB2IP in Cd⁺² – Immortalized Human Renal Proximal Tubular Epithelial Cells.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

2014 UND SMHS Summer Undergraduate Research Symposium

Slusser A, Holmquist A, Somji S, Sens DA, Garrett SH. Acute and chronic cadmium exposure induces transcriptional activation of BMP-2 signaling cascades in a human renal epithelial cell culture model.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

2014 UND SMHS Summer Undergraduate Research Symposium.

Society of Toxicology Meeting, Phoenix, 2014.

Shaneabbas Raza S, Megan Meyer M, Jared Schommer J, Kimberly DP Hammer KDP, Bin Guo B, Ghribi O. The Cholesterol Metabolite 27-hydroxycholesterol Increases Cell Proliferation in an Androgen Receptor-Dependent Manner in Prostate RWPE-1 cells.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Henry S, Gray JS, Carter PM. Three Cycle Comparison of Native American Elder Abuse Indicators.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

2014 UND SMHS Summer Undergraduate Research Symposium

Lyons L, Gray JS, Carter PM, Stensland P. Osteoporosis and Falls Among Native American Elders.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

2014 UND SMHS Summer Undergraduate Research Symposium

Lindgren J, Kagan C, Petros T, Lindgren HL, Gray JS. Native American Response Differences on the MMPI-2 Addiction Scales.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.
2014 UND SMHS Summer Undergraduate Research Symposium

Riley D, Carter P, Lindgren H, Gray JS. Native Elderly Falls and Depression as Related to Elder Abuse Services.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.
2014 UND SMHS Summer Undergraduate Research Symposium

Vandal R, Kagan C, Petros T, Lindgren H, Gray JS. Outliers, Misnomers, & Fallacies: Native Americans and the MMPI-2 Schizophrenia Scale.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.
2014 UND SMHS Summer Undergraduate Research Symposium

Young A, Kagan C, Petros T, Lindgren H, Gray JS. Cultural Incongruence: MMPI-2 and Native Americans.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.
2014 UND SMHS Summer Undergraduate Research Symposium

Nair V, Safe S. Metformin Blocks Lipogenesis in Pancreatic Cancer Cells by Downregulating Specificity Protein Transcription Factors.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Anderson A, Van Gieson J, Somji S. Expression of TXNIP and TGFBR3 in Arsenite and Cadmium Exposed UROtsa Cells.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.
2014 UND SMHS Summer Undergraduate Research Symposium

Davis BA, Garrett SH, Sens DA, Somji S. Potential Involvement of Cadmium in the Induction of the Polyol Pathway of Hyperglycemic Glucose Metabolism in Human Proximal Tubule Cells.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Desjarlais JF, Van Gieson J, Shrestha S, Somji S. Expression of Cyclin D1(CCND1) and Tissue Factor Pathway Inhibitor 2 (TFPI2) Genes in the As⁺³ and Cd⁺² Transformed UROtsa Cells and Tumor Heterotransplants.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.
2014 UND SMHS Summer Undergraduate Research Symposium

Ganje A, Shrestha S, Van Gieson J, Sens DA, Somji S. Expression of IL-1RN and TGFβ2 in UROtsa Cells and Heterotransplants Transformed by Arsenite and Cadmium.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.
2014 UND SMHS Summer Undergraduate Research Symposium

Hafner E, Van Gieson J, Shrestha S, Sens DA, Somji S. Differential Expression of STEAP1 and COL12A1 in Cadmium and Arsenite Transformed UROtsa Cells and Tumor Heterotransplants.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.
2014 UND SMHS Summer Undergraduate Research Symposium

Haven L, Van Gieson J, Shrestha S, Sens DA, Somji S. Expression of CLDN4 and OCLN in Heavy Metal Induced Bladder Cancer.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

2014 UND SMHS Summer Undergraduate Research Symposium

Milbridge A, Sandquist E, Garrett S, Sens DA, Somji S. Expression of NR2F1 and NR2F2 in Cd²⁺ and As³⁺ Induced Bladder Cancer.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

2014 UND SMHS Summer Undergraduate Research Symposium

5th Biennial NISBRE Meeting, Washington DC, 2014.

Stein T, Sandquist E, Garrett SH, Sens DA, Somji S. The Effects of Cadmium Exposure and MT-3 on BAX in HK-2 and Human Proximal Tubule Cells.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

2014 UND SMHS Summer Undergraduate Research Symposium

Titcomb TJ, Sandquist E, Garrett SH, Sens DA, Somji S. Expression of EphA4 and NTF-3 in Heavy Metal Induced Bladder Cancer.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

2014 UND SMHS Summer Undergraduate Research Symposium.

5th Biennial NISBRE Meeting, Washington DC, 2014.

Van Gieson JL, Garrett SH, Sens DA, Somji S. Anterior Gradient 2 Expression In MCF-10A And UROtsa Cells Exposed To Arsenite And Cadmium.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Society of Toxicology Meeting, Phoenix, 2014.

Wang L, Garrett SH, Voels B, Somji S, Sens DA. Repression of G-antigen genes in Metallothionein-3 expressing breast cancer MCF7 cells.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Allapowa D, Voels B, Somji S, Garrett S, Sens DA. The Unique N- and C-Terminal Domains of Metallothionein-3 Alter the Expression of hnRNP A2 in MCF-7 Breast Cancer Cells.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

2014 UND SMHS Summer Undergraduate Research Symposium

Bercier L, Voels B, Somji S, Garrett S, Sens DA. Metallothionein-3 Increases the Expression of the Na⁺/K⁺ exchanger ATP1B1 in MCF-7 Breast Cancer Cells.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

2014 UND SMHS Summer Undergraduate Research Symposium

Bruce R, Voels B, Somji S, Garrett S, Sens DA. Metallothionein-3 Represses the Expression of Regenerating Islet-Derived 1 Beta in MCF-7 Breast Cancer Cells.

6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

2014 UND SMHS Summer Undergraduate Research Symposium

Bull S, Voels B, Garrett SH, Sens DA, Somji S. Differential Expression of AHSA-2 & BST-2 Based on Presence or Absence of the N- and C-terminal of MT-3.
6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Fournier D, Voels B, Garrett SH, Sens DA, Somji S. An Investigation into the Differential Expressions of SCN1A and PFKFB3 Based on Absence or Presence of the N- or C-Terminal Domains of MT-3.
6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Curry N, Liu J, Xie L. Piecing the Heart Together: An Anatomical Study of the Second Heart Field.
6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.
2014 UND SMHS Summer Undergraduate Research Symposium

Xiang M, Zhang KK, Xie L. Tbx5 and Osr1 Co-regulation of Atrial Septation.
6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Bohan Zhang B, Clarke K, Xi B, Zhang KK. Aerosol Density and Unconventional Natural Gas Production.
6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Zheng Y, Oancea C, Zhou XD, Sens MA. Is It a Real “Cancer Cluster” or Not? Using Cancer Registry Data to Address A Public Concern.
6nd Annual ND INBRE Undergraduate Research Symposium, October 2014.

Peterson E, Jokinen B, Watt J, Brissette C, Dhasarathy A. Targeting of the Epigenetics of Lyme Disease.
2014 UND SMHS Summer Undergraduate Research Symposium

Flowers M, Biggane JP, Perez D, Doze VA. Creb1 and Akt2 Expression in Adult Mice with Chronically Activated α_{1A} Adrenergic Receptors.
2014 UND SMHS Summer Undergraduate Research Symposium

Goodyear C, Raza S, Ghribi O. 27-hydroxycholesterol Contributes to ER+ Breast Cancer Progression via p53 Signaling.
2014 UND SMHS Summer Undergraduate Research Symposium

Rostad P, Chevalier A, Ghribi O, Rosenberger TA. A Diet Enriched in Palm Oil Does Not Alter Brain Lipid Content in the 3xTg-AD Mouse.
2014 UND SMHS Summer Undergraduate Research Symposium

Redman W, Connahs H, Rhen T, Snyder S, Darland D, Simmons R. Investigating gene expression underlying eyespot development in the Painted Lady Butterfly, *Vanessa cardui*.
2014 UND SMHS Summer Undergraduate Research Symposium

Zhang B, Fu Q, Clark K, Hansen C, Zhang K, Xie L. Diet Changes in Mother Increases the Risk

of Obesity in the Offspring.

2014 UND SMHS Summer Undergraduate Research Symposium

Dunlevy JR, Slusser A, Klinger AR, Larson JL, Zhou X, Garrett SH, Somji S, Sens DA. Arsenic- and cadmium-transformed UROtsa bladder cells Stably Expressing SPARC will reduce SPARC expression during the formation of a tumor heterotransplant. Society of Toxicology Meeting, Phoenix, 2014. INBRE National Meeting, 2014.

Voels B, Garrett SH, Sens DA, Somji S. The unique N- and C-terminal domains of metallothionein-3 influences the growth and differentiation of MCF-7 breast cancer cells. Society of Toxicology, Phoenix, 2014.

Zhou L, Liu J, Olson P, Zhang K, Moskowitz IP, Xie L. Gata4 regulates second heart field cell cycle progression for atrial septation. Weinstein Cardiovascular Development Conference, Spain, 2014.

L.Zhou L, Y.Yang Y, D.Rasmussen D, J. O'keefe J, P. Olson P, Zhang K, Xie L. Tbx5 and Osr1 interact in second heart field for atrial septation. Weinstein Cardiovascular Development Conference, Spain, 2014.