

SCHOLARLY PRODUCTS 2015
ND INBRE: HEALTH AND THE ENVIRONMENT
P20GM103442-15

POSTERS (undergraduates are underlined)

Minot State University

Buchholz A, Nespor B, Zebka B, Mayhew J, Cole-Harding S, Winburn N. Time interval profiles of extracted caffeine concentrations in human saliva using gc/ms analysis.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Choi JH, Bobylev LI, Bobylev MM. Rapid synthesis of n-vanillylacetamide.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Collins JA, Bobyleva LI, Bobylev M. Rapid synthesis of n-(2,4-dichlorobenzyl)-n-methylformamide.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Hatfield BM, Bobyleva LI, Bobylev M. Rapid synthesis of n-(3-indolylmethyl)acetamide

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Keller CP, Khoshnaw WA, Tongsuk M. Are gibberellins involved in control of light-dependent leaf expansion in arabidopsis?

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Kroke T, Hatfield B, Royer R, Lepp PL. Mammalian blood meal identification and bacterial species diversity in hard-bodied ticks.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

LeDesma CK, Bobyleva LI, Bobylev M. Rapid synthesis of n-(3-indolylmethyl)formamide.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Lee HJ, Bobyleva LI, Bobylev M. Rapid synthesis of n-methyl-n-(1-naphthylmethyl)formamide.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Nespor B, Zabka B, Buchholz A, Mayhew J, Cole-Harding S, Winburn N. Method optimization of caffeine extraction from human saliva for gc/ms analysis.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

O'Keefe K, Bobylev M. Rapid synthesis of n-(4-chlorobenzyl)-n-ethylformamide.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Park SY, Bobyleva LI, Bobylev MM. Rapid synthesis of n-(4-t-butylbenzyl)-n-methylformamide.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Sanmugam KV, Toles JW, Vanhouwe DL, Cottingham SJ, Winburn N, Cole-Harding S.
Comparing behavioral changes after a moderate caffeine dose.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Schillo JL, Super HJ. Analyzing chromatin accessibility in the myeloid-lymphoid leukemia gene chromosome translocation breakpoint cluster region.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Shabani S, Houlton S, Hellmuth L, Mojica IE, Mootz J, Zhu Z, Reed C, Phillips TJ. A mouse model for binge methamphetamine use.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Shipunov A, Lee HJ, Choi, JH, Connolly B. Mysterious chokeberries: genus aronia in space and time.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Stewart K, Buchholz A, Super H. Effects of epigenetic modifier inhibitors on aml cell sensitivity to differentiation therapy.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Toles JW, Vanhouwe DL, Sanmugam KV, Cottingham SJ, Winburn N, Cole-Harding S.
Variability in the preference for decaffeinated coffee?

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Torgunrud J, Bobyleva LI, Bobylev M. Rapid synthesis of n-(3-indolylmethyl)-n-methylformamide.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Vanhouwe DL, Sanmugam KV, Toles JW, Cottingham SJ, Winburn N, Cole-Harding S.
Correspondence between caffeine levels and physiological changes.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Zabka B, Nespor B, Buchholz A, Mayhew J, Cole-Harding S, Winburn N.
Comparison of internal standards used for gc/ms analysis of caffeine extracted from human saliva samples.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Valley City State University

Olson M, Pavlenko S, Keasler SJ . Ion-Enhanced Nucleation in the Sulfuric Acid/Water System.
Midwest Undergraduate Computational Chemistry Consortium Online Meeting, (2/2016)

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Pavlenko S, Olson M, Keasler SJ. Neutral Aerosol Formation by Nucleation on Ion Pairs.
Midwest Undergraduate Computational Chemistry Consortium Online Meeting, (2/2016)

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Hone S, Tangen J, Langdeaux R, Bilski J. Aluminum in coal fly ash (fa), plants, and in leachates.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Bilski J, Berens J, Dissette N, Dobmeier A, Farnsworth A, Fergel A, Gangle D, Hager A, Hoggarth C, Ilogu C, Kraft C, Kyei-Asare F, Lander M, Meyer B, McLean E, McLean K, Nelson E, Ostgarden J, Scheen A, Soumaila F, Zimmer P, Hone SD, Tangen J, Langedaux R, Krueger I. The progress of undergraduate teaching through research related to environment and human health, supported by North Dakota INBRE program at the Valley City State University.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Hone SD, Tangen J, Langedaux R, Bilski J. Utilizing biofuel crops to phytoremediate coal fly ash.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Tangen J, Hone SD, Langedaux R, Bilski J. Utilizing coal ash to solve iron, zinc and selenium deficiencies in plants.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Olson M, Pavlenko S, Keasler SJ. Ion-Enhanced Nucleation in the Sulfuric Acid/Water System. Midwest Undergraduate Computational Chemistry Consortium Meeting, Evanston, IL (7/2015)

Olson M, Pavlenko S, Keasler SJ. Neutral Aerosol Formation by Nucleation on Ion Pairs. Midwest Undergraduate Computational Chemistry Consortium Meeting, Evanston, IL (7/2015)

Dickinson State University

Brennan A, Spiess J, Merritt F, Cabello J, Lawrence R, Moore R, Zietz S, Sims C, McGranahan D, Whippo C. The spatial re-distribution of road dust and its effect on crop physiology.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Petersen M, Pounds S, Shaughnessy M, Whippo C. Survey of 'fringe' mammals in western North Dakota.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Roth A, Whippo C. The Effects of Road Dust on Surrounding Vegetation. Dickinson State University Celebration of Scholars Conference, April 2015

Cabello J, Whippo C. Determining the Potential Impact of Road Traffic and Dust on Environmental Health.

Dickinson State University Celebration of Scholars Conference, April 2015

Spiess J, McGranahan D, Whippo C, Daigh A. Assessing the impact of fugitive road dust in the Bakken region of North Dakota.

Presentation at the Society of Rangeland Management meeting in Corpus Christi, TX, February 2016

Sims CM, Duppong LE, Lawrence RC, Meneses LE, Zumwalt CM, Steffan JJ. Role of chronic extracellular pH and c-Met upregulation in prostate tumor cells.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Zietz S, Burgess LC, Moore R. Identification of cultured endothelial cells from equine exuberant granulation tissue.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Duppong LE, Lawrence RC, and Steffan JJ. Chronic acidic extracellular pH induces c-Met expression and cellular invasion in prostate tumor cells.

Keystone Symposium: New Frontiers in Tumor Metabolism. Banff, Alberta, Canada.

Mayville State

Ness HM, Russell WE, Gonnella TP. The Effect of Substrate Length on Binding Affinities with Mitochondrial Aldehyde Dehydrogenase.

10th Annual Undergraduate Research in the Molecular Sciences Meeting, Moorhead, MN

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Ogburn KS,* Nygard JE, Gonnella TP. Assessing the Degree of Protection Bound NADH Provides Mitochondrial Aldehyde Dehydrogenase from 4-Hydroxy-2-nonenal Inactivation.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Gibson AP, Russell WE, Gonnella TP. The Effect of Alda-1 on the Enzymatic activity of Wild-type Mitochondrial Aldehyde Dehydrogenase.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Durant CN, Durant CE, Shimpa L, Johnson MA, Hossain KG. Elevated levels of iron affect common bean phenotype.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Hanson KM, Nelson CJ, Durant CN, Berven AJ, Ziemer CJ, Mehus JO. Dosage dependent mutation rates of stagonicola elodes embryos to cadmium.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Johnson MA, Islam N, Durant CE, Durant CN, Shimpa LJ, Kalavacharla V, Hossain K. Higher content of seed iron causes differential gene expression in common bean.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Turtle Mountain Community College

Hunter D, LaVallie A, Parisien A, Bercier L, Nadeau J, St. Pierre M. Turtle Mountain Leech Genome Project: Relating Morphology to Genetic Barcodes for Several Glossiphoniidae and Erpobdella Species.

2015 UND SMHS Summer Undergraduate Research Symposium

Hunter D, LaVallie A, Parisien A, LaRocque C, Beston D, Counts D. Turtle Mountain Leech Genome Project: Relating Morphology to Genetic Barcodes for Several Glossiphoniidae, Haemopidae, and Macrobdelellidae Species.

2015 UND SMHS Summer Undergraduate Research Symposium

Azure C, Parisien A, Jerome D, Best L. A Genetic Variant (Rs7216389) Is Not Associated With Asthma Among American Indian Children.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Belgarde M, Parisien A, Best L. A variant of the c-reaction protein gene (rs2808628) is not associated with risk of pre-eclampsia in an american indian population.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Best L, Lunday L, Webster E, Beal JR. Pre-Eclampsia And Risk Of Subsequent Hypertension: An American Indian Population.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Parisien A, Best L. Crp Gene Expression Conditioned By Crp Genotype And Tissue Type.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Rodriguez J, Parisien A, Best LG. A variant of the c-reaction protein gene (rs2794520) is not associated with risk of pre-eclampsia in an american indian population.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Dara JT, Best LG. Risk of Pre-Eclampsia in an American Indian Population is not Associated with a Variant of the C-Reactive Protein Gene (rs2027471).

Third Annual American Indian Research Conference, Fort Totten, ND, 4/10/15

3rd Annual North Dakota Tribal Research Symposium, Cankdeska Cikana Community College, April 2015

Azure A, Parisien A, Peltier K, LaVallie A, Davis B, Garrett SH, Sens DA. Expression of Genes TRIB3 and EPHB2 in Kidney PT Cells in Response to Elevated Levels of Glucose.

3rd Annual North Dakota Tribal Research Symposium, Cankdeska Cikana Community College, April 2015

Best L. Pre-eclampsia Research: Potential Collaboration with Turtle Mountain Community College Belcourt, ND.

Presentation of results to Chickasaw and Choctaw Tribal representatives, Ada, OK, 10/30/15.

Best L, Belgarde M, Rodriguez J. Genetics Demonstration: The genetics of your own PTC taste Demonstration (2 half days) and presentation to Future American Indian medical students,

summer enrichment program.
Univ. Minn., Duluth, MN, 7/15-16/15.

Best L. Genetics Demonstration: The genetics of your own PTC taste
Demonstration (2 half days) and presentation to Minority student summer program.
Sanford Research Foundation, Sioux Falls, SD 6/29-30/15.

Best L. Genetic Epidemiology of Pre-eclampsia and Asthma in American Indian Communities.
Association of American Indian Physicians, Seattle, WA, 7/31/15.

Best L. Genetic Epidemiology of Pre-eclampsia and Asthma in American Indian Communities.
Association of American Indian Physicians, Seattle, WA, 7/31/15.

Best L. Novel sequences of the C-Reactive Protein Gene among an American Indian Population.
North Dakota Academy of Science, NDSU, Fargo, ND, 4/24/15.

Best L. Biomedical Research in American Indian Communities.
Presentation College of Nursing, Aberdeen, SD, 3/26/15.

Cankdeska Cikana Community College

Bercier N, Voels B. A Preliminary Investigation into Metallothionein-3's Influence on the
Expression of GAGE Antigens in MCF7 Cells.
2015 UND SMHS Summer Undergraduate Research Symposium
7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Black D, Voels B. The Unique N- and C-Terminal Domains of Metallothionein-3 Influence the
Expression of GAGE Antigens in MCF7 Cells.
2015 UND SMHS Summer Undergraduate Research Symposium
7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Conway P, Boeckel J, Griffin J, Harding T, Leben L, McKay L, Ploium T, Simonsen J. Factors
Influencing Behavioral Health Outcomes.
3rd Annual North Dakota Tribal Research Symposium, Cankdeska Cikana Community College,
April 2015

Thompson MJ. Terrestrial oil absorption of *Agaricus brunnescens*.
3rd Annual North Dakota Tribal Research Symposium, Cankdeska Cikana Community College,
April 2015

United Tribes Technical College

Alkhafaji D, Guinn JE. Initial Results: Comparing Methods For Determining Diet Of Urban
Versus Rural Coyotes.
7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Holmes JP, Guinn M. An ethogram of big brown bats (*Eptesicus fuscus*): general behaviors and

social interactions in an artificial roost.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Sitting Bull College

Loretto M, Topliff C, Kelling C, Mongoh MN. Bison health: prevalence of parasites (helminthes) in fecal samples on a bison pasture on standing rock sioux reservation.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Van Dusen BK, Hall CA, Mongoh MN. Indigenous corn reintroduction project: analysis of lipid content and dietary health implications.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

3rd Annual North Dakota Tribal Research Symposium, Cankdeska Cikana Community College, April 2015

Walking Elk L, Halvorson G, Mongoh MN. Characterizing water quality parameters in a typical livestock pasture on the Standing Rock Reservation: health and productivity implications.

3rd Annual North Dakota Tribal Research Symposium, Cankdeska Cikana Community College, April 2015

Nueta Hidatsa Sahnish College

Dickens F, Sillitti S, Hartman K, Kubatova A. Gas flaring.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Fox C. An investigation into the presence of mercury in lake sakakawea

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Laducer-Garrett F, Kirk E, Voigt JML, Ternes SA, Hartman K, Saini-Eidukat B, Rahman S, Borhan M. Particulate matter exposure along designated traffic routes on the Fort Berthold reservation, North Dakota.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

NDSU

Walker-Swaney P, Warne D. Summer undergraduate research program.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

University of North Dakota

Aardahl K, Alvine TD, Knopick PL, Osei-Owusu P, Nilles ML, Bradley DS. Evaluation of the Adjuvant Properties of BscF, a Purified Needle Protein from Bordetella pertussis.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Ward C, Adamsen C, Carter P. Health Care Coverage among AIAN Elders by Gender and

Income.

2015 UND SMHS Summer Undergraduate Research Symposium

Waisner H, Darby B. Evolutionary Ecology of rRNA Copy Number.

2015 UND SMHS Summer Undergraduate Research Symposium

Clark SM, Biggane JP, Perez D, Doze VA. Effect of Constitutive α_{1A} -adrenergic Receptor Activation on Gene Expression of Notch1 and Nme1 in the Adult Female Mouse Brain.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Claymore BK, Biggane J, Perez DM, Doze VA. Aldh1a2 Expression in the Adult Female Mouse Brain with Constitutively Active α_{1A} -Adrenergic Receptors.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Dent Z, Biggane JP, Perez DM, Doze VA. Constitutive α_{1A} -Adrenergic Receptor Activation and Gene Expression of Creb1 and Ascl1 in the Adult Female Mouse Brain.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Gjermundson S, Biggane JP, Perez DM, Doze VA. Shh and Akt2 Expression in the Constitutively Active Mutant α_{1A} -Adrenergic Receptor Female Mouse Brain.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Gregoire BR, Biggane JP, Perez DM, Doze VA. Cpe and Casr Expression in Adult Female Mice with Constitutively Active Mutant α_{1A} - adrenergic Receptors.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

McDonald R, Biggane JP, Perez DM, Doze VA. Expression of the Apolipoprotein E (APOE) Gene in Constitutively Active Mutant α_{1A} -Adrenergic Receptor (CAM α_{1A} -AR) Adult Mice.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Ryberg AJ, Biggane JP, Perez DM, Doze VA. Expression of Npas-3 and Aldh1a1 in Adult Female Mice with Constitutively Active Mutant α_{1A} -Adrenergic Receptors.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Smith NA, Biggane JP, Perez DM, Doze VA. Expression of Brain-Derived Neurotrophic Factor (Bdnf) and Cyclin E1 (Ccne1) in Adult Female Mice with Constitutively Activated α_{1A} -Adrenergic Receptors.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Zimmer TN, Biggane JP, Perez DM, Doze VA. Expression of Noggin in Adult Female Mice with Constitutively Active Mutant α_{1A} - Adrenergic Receptors.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Boike S, Evanoff ER, Slusser-Nore A, Dunlevy JR. Fibronectin Splicing in Human Proximal Tubule Cells Exposed to High Concentrations of Glucose.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Grosgebauer K, Slusser-Nore A, Evanoff ER, Garrett SH, Somji S, Sens DA, Dunlevy JR. Differential Expression of Fibronectin Splice Variants in Breast Cancer Cell Lines.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Hoggarth Z, Slusser A, Evanoff E, Dunlevy J. Expression of ITGAV and ITGB3 in Arsenic and Cadmium Transformed UROtsa Cells.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Norton RA, Slusser A, Evanoff E, Dunlevy, J. ITGA9 and ITGA3 Expression in Arsenite (As^{+3})- and Cadmium (Cd^{+2})-Transformed UROtsa Cells.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Osowski D, Evanoff E, Slusser A, Dunlevy JR. Put a little “metal” in it: CD44 and ITGB6 Expression in Cadmium (Cd^{2+}) and Arsenic (As^{3+}) Transformed UROtsa Cells.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Piper T, Slusser A, Evanoff ER, Dunlevy JR. Gene Expression of ITGA4 and ITGB1 in Cd^{2+} and As^{3+} -transformed UROtsa Cells.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Redman WK, Slusser-Nore A, Evanoff ER, Dunlevy JR. Fibronectin Splice Variants are Differentially Expressed in Cultured Human Proximal Tubule Cells.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Rone A, Slusser A, Evanoff E, Dunlevy J. Expression of ITGA5 and ITGA8 in Arsenite (As^{+3}) and Cadmium (Cd^{+2}) Transformed UROtsa Cells.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Boeshans D, Davis B, Shrestha S, Somji S, Sens DA, Garrett S. Expression of Stem Cell Biomarker Genes ALDH1A1, CD44, and PROM1/CD133 and Doming in Proximal Tubule Cells.

2015 UND SMHS Summer Undergraduate Research Symposium
7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Brink B, Davis B, Sens DA, Garrett SH. Expression of the TGF- β Family of Cytokines and Their Receptors in Human Proximal Tubular Cells.

2015 UND SMHS Summer Undergraduate Research Symposium
7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Ganje AJ, Davis B, Slusser A, Shrestha S, Dunlevy J, Sens DA, Garrett SH. Exploring the Roles of MT-3, Gelsolin, and DPYSL3 in the Renal Epithelial-to-Mesenchymal Transition.

2015 UND SMHS Summer Undergraduate Research Symposium
7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Marasinghe L, Davis B, Shrestha S, Garrett S. Expression of Sox4, Sox6, BATF3, and CEBPB in Human Proximal Tubule and HK-2 Isolates.

2015 UND SMHS Summer Undergraduate Research Symposium
7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Moderow S, Davis B, Sens DA, Somji S, Garrett SH. Expression of SEMA 3C, SEMA 3F, SEMA 5A, and SEMA 5B in Human Proximal Tubule and HK-2 Cell Lines.

2015 UND SMHS Summer Undergraduate Research Symposium
7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Nelson N, Davis B, Shrestha S, Garrett SH, Sens DA. Expression of WNT3a, WNT5a, & Their Receptors FZD1, & FZD2 in MT3-induced Mesenchymal-to-Epithelial Transition in Renal Proximal Tubule Cells.

2015 UND SMHS Summer Undergraduate Research Symposium
7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Savage C, Davis B, Shrestha S, Sens DA, Garrett, SH. Expression of ARHGDI1, EPHB2, TRIB1, and PIK3R3 Genes in the Immortalized Cell Line HK-2, HK-2 MT-3 Cells and in Mortal Cultures of Human Proximal Tubular Cells.

2015 UND SMHS Summer Undergraduate Research Symposium
7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Sayler D, Davis B, Sens DA, Garret SH. Expression of N-Cadherin, E-Cadherin, and K-Cadherin Genes in HK-2 cells, HK-2 MT-3 cells and HPT Cells.

2015 UND SMHS Summer Undergraduate Research Symposium
7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Sinamo T, Davis B, Sens DA, Garrett SH. Expression of MMP1 and DCN in HK-2, MT-3, and HPT Cell Lines.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Tarvestad S, Davis B, Shrestha S, Sens DA, Garrett SH. Expression of the Proapoptotic Genes CASP2 and BAX in the HK-2 Cells, HK-2 MT-3 Cells and Human Proximal Tubular Isolates. 2015 UND SMHS Summer Undergraduate Research Symposium
7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Azure WB, Wheeler M, Gray JS, Bluehouse R, Gomez T, Owl Morgan R. Technology Use among American Indian/Alaskan Native Elders.
2015 UND SMHS Summer Undergraduate Research Symposium

Lyons L, Wheeler M, Gray JS, Bluehouse R, Owl Morgan R. Contributing Factors to American Indian/Alaskan Native Elders' Quality of Life.
2015 UND SMHS Summer Undergraduate Research Symposium

Riley D, Wheeler M, Gray, J, Bluehouse R, Gomez T, Owl Morgan R. Identity Theft among American Indian and Alaskan Native Elders.
2015 UND SMHS Summer Undergraduate Research Symposium

Nuñez BAL, Christensen KM, Wood BDs, Milavetz B. Changes in Histone Modifications during the Initiation of Transcription.
2015 UND SMHS Summer Undergraduate Research Symposium

Tuineau M, Krueger S, Repele A, Manu M. The cis-regulation of Cebpa During Macrophage-Neutrophil Differentiation.
2015 UND SMHS Summer Undergraduate Research Symposium

Melvin JE, Manocha GD, Puig KL, Combs CK, Nagamoto-Combs K. Expression of Tyrosine Hydroxylase in Microglial Cell Cultures: Catecholamines as Potential Gliotransmitters.
2015 UND SMHS Summer Undergraduate Research Symposium
7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Molinar K, Miller A, Rhen T. Developing a Reporter Assay of Wnt Pathway Activity and Comparing its Expression in Male and Female Snapping Turtles (*Chelydra serpentina*).
2015 UND SMHS Summer Undergraduate Research Symposium

Oestreich E, Russart KG, Rhen T. Effects of Atrazine and Estrogen on Gene Expression within the Hypothalamus of Male and Female Snapping Turtles (*Chelydra serpentina*).
2015 UND SMHS Summer Undergraduate Research Symposium

Devine R, Huwe T, Yellow Hammer L, Swartz S, Simmons R, Park M, Goodwin BJ, Yurkonis K. netic Diversity of Pollinators in a Space Plot System in Mekinock, North Dakota.
2015 UND SMHS Summer Undergraduate Research Symposium

Longie PN, Ranawaka NK, Simmons RB. Genetic Diversity of the Invasive Gypsy Moth, *Lymantria dispar dispar* Lepidoptera: Erebidae: Lymantriinae).

2015 UND SMHS Summer Undergraduate Research Symposium

Antonenko AM, Van Gieson JL, Garrett SH, Sens DA, Somji S. Expression of ALDH1A1 in Arsenite(As³⁺) and Cadmium (Cd²⁺) Transformed UROtsa Cells.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Freeberg B, Van Gieson JL, Sens DA, Somji S. Expression of Vimentin in UROtsa Parent, Arsenite, and Cadmium –transformed Cell Lines and Urospheres.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Grosz JL, Van Gieson JL, Garrett SH, Sens DA, Somji S. CD44 Expression In A Model of As³⁺ and Cd²⁺ Induced Bladder Cancer.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

McLean RAS, Van Gieson JL, Somji, S. Differential Expression of N-Cadherin (CDH2) in Arsenic (As³⁺) and Cadmium (Cd²⁺) Transformed UROtsa Cells and UROspheres: A Study of the Expression Levels of Neural Cadherin as a Potential Biomarker for Aggressive Bladder Cancers.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Nies I, Van Gieson JL, Garrett SH, Sens DA, Somji S. Expression of CDH1 in Cd²⁺ and As³⁺ Transformed UROtsa cells and in UROsphere Derived from these Transformed Cell Lines.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Scott KB, Van Gieson JL, Garrett SH, Sens DA, Somji S. Variation of OCLN Expression in As³⁺ and Cd²⁺-transformed UROtsa and Corresponding Putative Cancer Stem Cells.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Sherlock S, Van Gieson JL, Sens DA, Somji S. Expression of TWIST1 in UROtsa parent and Arsenite and Cadmium Transformed Cell Lines and Urospheres.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Tescher LA, Van Gieson JL, Garret SHt, SensDA, Somji S. Expression of SNAI1 in Cd²⁺ and As³⁺ Induced Bladder Cancer using a UROtsa Model.

2015 UND SMHS Summer Undergraduate Research Symposium

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Warren D, Van Gieson JL, Sens DA, Somji S. Expression of SNAI2 in UROtsa Parent, and Arsenite and Cadmium Transformed Cell Lines and Urospheres.

2015 UND SMHS Summer Undergraduate Research Symposium
7th Annual ND INBRE Undergraduate Research Symposium, October 2015

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.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

3rd Annual North Dakota Tribal Research Symposium, Cankdeska Cikana Community College, April 2015

Michelson K, Darland DC, Huang W, Wang DY, Fileta JB, D'Amore PA, Grosskreutz CL. Changes in vimentin and glial-fibrillary acidic protein expression in glial-endothelial

Interactions in experimental glaucoma.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Nagamoto-Combs K, Doze VA. Behavioral research core facility: infrastructure and advanced equipment for cognitive and motor-skill assessments in rodents.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Oancea C. INBRE health informatics at und: a rich resource for the university community and the State at large.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Shrestha S, Garrett SH, Sens DA, Somji S. Comparison of the expression of stem cell markers in monolayer and spheroid cell cultures of human renal epithelial cells with that expressed in the immortalized human proximal tubule cell line, HK-2.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

3rd Annual North Dakota Tribal Research Symposium, Cankdeska Cikana Community College, April 2015

Slusser AM, Zheng Y, Zhou X, Somji S, Sens DA, Sens MA, Garrett SH. Metallothionein isoform 3 expression in human skin, related cancers and human skin derived cell cultures.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

3rd Annual North Dakota Tribal Research Symposium, Cankdeska Cikana Community College, April 2015

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

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

3rd Annual North Dakota Tribal Research Symposium, Cankdeska Cikana Community College, April 2015

Weichel BJ, Yang Y1, Zhang K. A Novel Clustering Based Assembly Algorithm For Rna-Seq.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Xiang M, Zhang K, Xie L. Gene-network and familial analyses uncover tbx5/osr1/pcsk6 interaction in the second heart field for atrial septation.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Yawakie BR, Wheeler MJ, Gray JS. Comparing Sassi-3 Scores Of Northern Plains Indians With Sassi-3 Normative Sample Group.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

Zheng Y, Oancea C, Zhou X, Sens MA. Addressing Public Cancer Concerns Using Cancer Registry Data.

7th Annual ND INBRE Undergraduate Research Symposium, October 2015

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

3rd Annual North Dakota Tribal Research Symposium, Cankdeska Cikana Community College, April 2015

Allapowa D, Voels B, Somjii 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.

3rd Annual North Dakota Tribal Research Symposium, Cankdeska Cikana Community College, April 2015

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.

3rd Annual North Dakota Tribal Research Symposium, Cankdeska Cikana Community College, April 2015

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

3rd Annual North Dakota Tribal Research Symposium, Cankdeska Cikana Community College, April 2015

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

3rd Annual North Dakota Tribal Research Symposium, Cankdeska Cikana Community College, April 2015

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

3rd Annual North Dakota Tribal Research Symposium, Cankdeska Cikana Community College, April 2015

Bull S, Voels B, Somji S, Garrett S, Sens D. Differential Expression of AHSA-2 & BST-2 Based on Presence or Absence of the N- and C-terminal of MT-3.

3rd Annual North Dakota Tribal Research Symposium, Cankdeska Cikana Community College, April 2015

Henry SM, Gray JS, Carter PM. 3 Cycle Comparison of Native American Elder Abuse Indicators.
3rd Annual North Dakota Tribal Research Symposium, Cankdeska Cikana Community College,
April 2015