

SCHOLARLY PRODUCTS 2009
ND INBRE P20RR016471-09

POSTERS (undergraduates are underlined)

Minot State University

Meyer MJ, Crawford H, Keller CP, Hossain KG. Variability in Root Cortex Cell Membrane Potential Sensitivity to Zn⁺² between Common Bean (*Phaseolus vulgaris*) Genotypes Differing in Seed Zn Content. Co-Published with Mayville State University, Hossain.
1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Clarkson P, Beachy CK. The Influence of Larval Growth History and Exogenous Thyroid Hormone on Life History Allocation Patterns in Axolotl (*Ambystoma mexicanum*).
1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Block D, Hermsmeier D, Schittko U. Accumulation of Cadmium in Nectar and Pollen of *Brassica napus* L.
1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Hedges J, Bobylev MM. New Approach to the Synthesis of 4 -(Dimethylamino)benzylamine.
1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Lewis S, Bobylev MM. Application of the Accelerated Leuckart Reaction to Substituted Benzaldehydes.
1st Annual ND INBRE Undergraduate Research Symposium, 2009.
Posters on the Hill, 2009
238th ACS National Meeting, 2009

Grundstad M, Evanoff M, Lentz D, Culler A, Cohen J, Keller C. Induction of Leaf Expansion in *Arabidopsis* by Indole-3-Acetic Acid Requires Wounding and Tissue Excision.
1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Stewart A, Bobylev MM. Isolation and Identification of Byproducts in the Synthesis of N-vanillylformamide.
1st Annual ND INBRE Undergraduate Research Symposium, 2009.
Annual Biomedical Research Conference for Minority Students (ABRCMS), 2009.

Young ZZ, Bobylev MM. Rapid Synthesis of Piperonylformamide.
1st Annual ND INBRE Undergraduate Research Symposium, 2009.
Posters on the Hill 2010.
Annual Biomedical Research Conference for Minority Students (ABRCMS), 2009.

Reed K, Beachy CK. Effects of Cadmium and Larval Density on Metamorphosis in Axolotl: a Model for Bioaccumulation of a Heavy Metal in North Dakota Foodwebs.
1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Sweet J, Roise A, Beachy CK. An Analysis of Sex Differences in Cloacal and Skin pH in *Ambystoma mexicanum* (axolotl) Salamanders. Amphibian Growth Project and Department of Biology, Minot State University, Minot, ND.

1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Scotfield T, Bobylev MM. Accelerated Procedure for the Synthesis of Benzhydrylformamides.

1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Horrell JC, Aldrich A, Anderson AL, Super HJ. Analysis of Chromatin structure in the Myeloid-Lymphoid Leukemia Gene translocation breakpoint cluster region.

Proceedings, American Association for Cancer Research (AACR), 2010.

Proceedings of the National IDeA symposium of Biomedical Research Excellence IDeA meeting, 2010.

Valley City State University

Bilski J, McLean K, Ostgarden J, Lander M. Coal Fly Ash Utilization as a Medium for Selected Cereal Crops: Preliminary Study.

1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Dickinson State University

Burgess LC, Bhobho T, Konde G, Wanner A. The Effect of Lycopene on the Expression of Connexin mRNAs and Proteins in Cultured Human Cell Lines.

1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Burgess LC, Meier J, Chinju S. Exuberant Granulation Tissue as a Possible Angiogenic Disease: A Study of the Expression of Angiogenic, Inflammatory and Cell Cycle Control RNAs from Cultured Equine Cells.

1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Burgess LC, Rice E, Fischer T, Seekins JR, Burgess TP, Sticka SJ, Wanner A, Klatt K.

Lycopene has Limited Effect on Cell Proliferation in only two of seven Human Cell Lines (both cancerous and noncancerous) in an in vitro System with Doses across the Physiological Range.

1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Burgess LC, Bhobho T, Murray J, McCoy M. Changes to Connexin Expression in Metallothionein-3 Positive and Negative Human Proximal Tubule Cells after Cadmium Treatment.

Society of Toxicology Annual Meeting, 2010.

Mayville State University

Gates G, Berthold J, Zahirul T, Hossain KG. Genotypic Specific NBS-LRR Type Gene Sequences And Identification Of Molecular Markers For Disease Resistance In Common Bean.

1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Keating J, Crawford H, Hossain KG. Selection of Common Bean Genotype for Micronutrient Enhancement.

1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Gates L, Berthold J, Talukder Z, Hossain KG. Genotype Specific NBS-LRR type Gene Sequences and Identification of Molecular Markers for Disease Resistance in Common Bean.

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Hossain KG. Genetic Diversity and Selection of Genotypes for Developing Micronutrient Dense Common Bean.

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DeLong H, Akond M, Berthold J, Hossain KG. Metal Transporter Genes in Common Bean (*Phaseolus vulgaris* L.).

1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Leedahl TS, Gonnella TP, Picklo MJ. Examining Effects of Divalent Metal Cations on NAD⁺-Dependent Aldehyde Dehydrogenase 2 Via Time-Resolved Fluorescence.

1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Meyer MJ, Crawford H, Keller CP, Hossain, KG. Variability in Root Cortex Cell Membrane Potential Sensitivity to Zn between Common Bean Genotypes Differing in Seed Zn Content.

1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Cankdeska Cikana Community College

None

Turtle Mountain Community College

Best LG, Bercier S, Davis J, Davis K, Poitra S, Anderson CM. Characteristics of Two Measures of Endothelial Function Among American Indian Participants in a Case-control Study of Pre-eclampsia.

1st Annual ND INBRE Undergraduate Research Symposium, 2009.

North Dakota State University

Borchardt J, Jacob DL, Otte ML. TiO₂ nanoparticle uptake in *Elodea canadensis*. 2009 Joint meeting of the Society of Wetland Scientists.

1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Kissoon L, Jacob DL, Otte ML. *Typha angustifolia* is exposed to higher metal concentrations under wetland compared to dryland conditions.

2009 ND EPSCoR Annual Meeting, 2009.

Sunwar S, Jacob DL, Otte ML. Multi-element uptake: effect of temperature and salinity on *Triglochin maritima* populations.
2009 ND EPSCoR Annual Meeting.

Yellick A, Jacob DL, Otte ML. Rapid assessment of wetlands by multi-element fingerprinting.
2009 Joint meeting of the Society of Wetland Scientists.
1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Jyoti V, Saini-Eidukat B, Hopkins D, DeSutter T. Cadmium distribution in soils within the Pembina Escarpment.
2009 ND EPSCoR Annual Meeting.
1st Annual ND INBRE Undergraduate Research Symposium, 2009.

University of North Dakota

Lamb B, Arnold C, Crossley D. The Impact of Stressful Incubation Conditions on Angiotensin II Expression in Embryonic Alligators.
Summer Research Experience Poster Session, 2009.

Overmoe E, Sens D, Doze V. The Effects of Cadmium on Adult Neurogenesis: An Experimental Approach.
Summer Research Experience Poster Session, 2009.
1st Annual ND INBRE Undergraduate Research Symposium, October 2009.

Dahlheimer K, Branshaw S, Sharma S, Rakoczy S, Williams A, Brown-Borg H. Spatial memory and antioxidant defense in long-living Ames dwarf mice.
Summer Research Experience Poster Session, 2009.

Delude S, Dhawan G, Combs CK. Beta-Amyloid Oligomer Stimulated Increases in Tyrosine Kinase Phosphorylation in Primary Microglia and Microglia Cell Line.
Summer Research Experience Poster Session, 2009.

Collette KM, Goldenstein BL, Jurgens CWD, Perez DM, Doze VA. Alpha-1A Adrenergic Receptor Stimulation Enhances Neurogenesis & Longevity in the Mouse.
Summer Research Experience Poster Session, 2009.
1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Johnson BM, Dunlevy JR. Colocalization of Keratin 6 and Keratin 16 in Cd⁺² transformed cell lines.
Summer Research Experience Poster Session, 2009.
1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Botsford TJ, Somji SS, Garrett SH, Sens DA. UDP Glycosyltransferase 8 and Bleomycin Hydrolase Expression in Cadmium- and Arsenite-Transformed Urothelial Cells.

Summer Research Experience Poster Session, 2009.
1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Wood SG, Lyons MJ, Fagerlie RM, Goldenstein BL, Haselton JR, Perez DM, Doze VA. Alpha-1A Adrenergic Receptor Stimulation Improves Learning and Memory in Mice.
Summer Research Experience Poster Session, 2009.
1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Davis A, Pavlish K, Henry LK. Expression and Purification of Leucine Transporter for use in Proteoliposomes.
Summer Research Experience Poster Session, 2009.
1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Slusser AM, Porter JE. Peroxiredoxin, a mitochondrial-specific peroxidase, as a possible key regulator of the anti-apoptotic pathway.
Summer Research Experience Poster Session, 2009.
1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Zahn RJ, Somji SS, Garrett SH, Sens DA. Ephrin B-2 and Iroquois Homeobox 4 Expression in Cadmium- and Arsenite-Transformed Urothelial Cells.
Summer Research Experience Poster Session, 2009.
1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Abe SA, Gray JS, Dye S, Trottier J, Mugerud T. Goodhealth TV as a Tool for Education.
1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Collette K, Fagerlie R, Haselton J, Perez DM, Doze VA. NE, through Activation of α 1AARs, Stimulates the Production of New Neurons, Leading to Alleviation of Depression and Anxiety.
Summer Research Experience Poster Session, 2009.
1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Larson JD, Gienger HM, Hulm AM, Rosenberger TA. The intracerebral ventricular infusion of bacterial lipopolysaccharide induces a dose-dependent activation of rat neuroglia.
Summer Research Experience Poster Session, 2009.
1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Herington D, Zhong G, Qin W, Sauter ER. IGF-1R and Mammaglobin A expression in tumors treated with PNA-A and PNA-B.
Summer Research Experience Poster Session, 2009.
1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Drewlow R, Garrett SH, Somji S, Sens DA. Expression of EGLN3 and AGR2 in Cd⁺²- and As⁺³ Transformed MCF10A Breast Epithelial Cells.
Summer Research Experience Poster Session, 2009.
1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Azure J, Poitra S, Jurgens C, Charbeneau R, Huang X, Neubig R, Doze VA. Alpha-2 Adrenergic Receptor-Mediated Sedation in Mice. Summer Research Experience Poster Session, 2009. 1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Davis BA, Luger EJ, Perez DM, Doze VA. Alpha-1A Adrenergic Receptor Stimulation Reduces Anxiety in Mice. Summer Research Experience Poster Session, 2009. 1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Riedinger J, Kumm A, Shabb J. A Search for Proteins that Associate with MINERVA, a Novel Factor Important for Melanoma Progression. Summer Research Experience Poster Session, 2009. 1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Desautel N, Hurt C, Spitzer S, Nelson B, Doze VA. α 2Adrenergic Receptor-Mediated Antiepileptic Activity in the Mouse: Comparison of in vitro and in vivo Models. Summer Research Experience Poster Session, 2009. 1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Cooley SA, Garrett SH, Somji SS, Sens DA. Expression of SMARCA1 and CDA in cadmium and arsenite- transformed MCF10A breast epithelial cells. Summer Research Experience Poster Session, 2009. 1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Steiner NM, Dunlevy JR. Colocalization of Cytokeratin 7 and Cytokeratin 19 in Transformed Cadmium Cell Lines. Summer Research Experience Poster Session, 2009. 1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Allen C, Garrett SH, Somji S, Sens DA. Expression of FABP6 and ENO2 in As⁺³- and Cd⁺²-Transformed MCF10A Breast Epithelial Cells. Summer Research Experience Poster Session, 2009. 1st Annual ND INBRE Undergraduate Research Symposium, 2009.

Carlson KL, Somji SS, Garrett SH, Sens DA. Eukaryotic Translation Elongation Factor 1 Alpha 2 and Dihydropyrimidinase-like 2 Expression in Cadmium- and Arsenite- Transformed Urothelial Cells. Summer Research Experience Poster Session, 2009. 1st Annual ND INBRE Undergraduate Research Symposium, 2009.