

SCHOLARLY PRODUCTS 2008
ND INBRE P20RR016471-08

POSTERS (undergraduates are underlined)

Minot State University

Lentz DS, Grundstad ML, Evanoff M, Keller CP. Leaf attachment, wounding, and control of leaf expansion in arabidopsis by the plant hormone indole-3-acetic acid. Proceedings of the ND Academy of Science, 2008.

Aldrich A, Super H. Analysis of protein binding in the Myeloid-Lymphoid Leukemia gene translocation breakpoint cluster region. American Association for Cancer Research annual meeting, San Diego, 2009.

Anderson AL, Super HJ. Analysis of protein binding in the myeloid-lymphoid leukemia gene translocation breakpoint cluster region. Proceedings of the ND Academy of Science, 2008.

Lepp CA, Super HJ. Assessing DNA topoisomerase binding in the myeloid-lymphoid leukemia gene translocation breakpoint cluster region. Proceedings of the ND Academy of Science, 2008.

Ingold D, Bobylev MM. Scaling up the accelerated Leuckart reaction for the synthesis of novel formamide fungicides. American Society for Biochemistry and Molecular Biology (ASBMB), Minnesota State University-Moorhead, 2008.

Nurnberger J, Bobylev MM. Determining the scalability of the one-pot synthesis of a novel formamide fungicide. American Society for Biochemistry and Molecular Biology (ASBMB), Minnesota State University-Moorhead, 2008.

Keller B, Bobylev MM. Microwave-assisted synthesis of N-vanillylformamide. American Society for Biochemistry and Molecular Biology (ASBMB), Minnesota State University-Moorhead, 2008.

Clarkson PC, Beachy CK. The influence of larval growth history and exogenous thyroid hormone on life history allocation patterns in the axolotl (*Ambystoma mexicanum*). Proceedings of the ND Academy of Science, 2008.

Crites LL, Crites C, Cabarle K, Super H, Beachy CK. An assessment of presence of chytrid fungal infection in tiger salamanders in North Dakota. Proceedings of the ND Academy of Science, 2008.

Seil JE, Meyer MJ, Fishpaw TK, Keller CP. Effects of zinc on root membrane potentials of a heavy metal intolerant plant (*Arabidopsis thaliana*) and a heavy metal tolerant relative (*Arabidopsis halleri*).

Proceedings of the ND Academy of Science, 2008.

National IDeA Symposium of Biomedical Research Excellence (NISBRE), 2nd Biennial, 2008.

Beachy CK, Sever DM. On the absence of a plethodontid from the northern Great Plains of Manitoba with comments on our description of a new species, *Plethodon prairiensis*.

Joint Annual Meeting of Ichthyologists and Herpetologists, 2008.

Cabarle KC, Beachy CK. An assessment of heavy metal toxicity in embryonic and larval axolotl (*Ambystoma mexicanum*).

Joint Annual Meeting of Ichthyologists and Herpetologists, 2008.

Clarkson, P, Beachy CK. The influence of larval growth history and exogenous thyroid hormone on life history allocation patterns in the axolotl (*Ambystoma mexicanum*).

Joint Annual Meeting of Ichthyologists and Herpetologists, 2008.

Conway P, Super H, Gonnella T. The impact of the North Dakota INBRE project on undergraduate research and student outcomes.

CUR Conference: Frontiers and Challenges in Undergraduate Research, 2008.

Super HJ, Lepp CA, Lockrem TL. Knockdown of expression of the MLL-AF9 fusion gene in the cell line Mono Mac 6: Effects on downstream target genes and cell growth.

American Association for Cancer Research (AACR), 2009.

Keller CP. Effects of Zinc on Root Membrane Potentials of *Arabidopsis thaliana* and *Arabidopsis halleri*.

Second Biennial National IDeA Symposium of Biomedical Research Excellence (NISBRE), 2008.

Bobyleva L, Bobylev MM. Instant hydrolysis of the Leuckart reaction products

2nd Biennial National IDeA (Institutional Development Award) Symposium of Biomedical Research Excellence (NISBRE), 2008.

6th International Microwaves in Chemistry Conference, 2008.

Bobylev MM, Bobyleva LI. The "greener" Leuckart reaction

12th Annual Green Chemistry and Engineering Conference, 2008.

Bobylev MM, Lewis S. Application of the accelerated Leuckart reaction to substituted benzaldehydes

4th Annual Northwest Regional Undergraduate Affiliate Network Meeting. "Undergraduate Research in the Molecular Sciences (URMS)", 2008.

Bobylev MM, Scofield T. Synthesis of benzhydrylformamides via the accelerated Leuckart reaction

4th Annual Northwest Regional Undergraduate Affiliate Network Meeting. "Undergraduate Research in the Molecular Sciences (URMS)", 2008.

Bobylev MM, Young ZZ. Rapid synthesis of piperonylformamide
4th Annual Northwest Regional Undergraduate Affiliate Network Meeting. "Undergraduate Research in the Molecular Sciences (URMS)", 2008.

Modrow H, Beachy CK. Diet of tiger salamanders in North Dakota, with implications for flow of heavy metals through wetland food webs.
Joint annual meeting of Ichthyologists and Herpetologists, 2008.

Mortensen S, Bobylev MM. Synthesis of 4-hydroxybenzylformamide via the Leuckart reaction.
236th ACS National Meeting, 2008.

Page RB, Voss SR, Samuels AK, Smith JJ, Putta S, Beachy CK. Effect of thyroid hormone concentration on the transcriptional response underlying induced metamorphosis in the Mexican axolotl (*Ambystoma*).
Joint annual meeting of Ichthyologists and Herpetologists, 2008
2nd Biennial National IDEa Symposium on Biomedical Research Excellence, 2008.

Valley City State University

Olson B, Lorenz R, Ost T, Stack R, Wieland LM, DeLorme AW. Does atrazine have a seasonal effect on the endocrine system of the flat-headed mayfly.
Proceedings of the ND Academy of Science, 2008.

Olson B, DeLorme A. Endocrine Effects of Atrazine on Aquatic Insects.
American Society for Biochemistry and Molecular Biology (ASBMB), Minnesota State University-Moorhead, 2008.

Hager A, DeLorme A. Determination of heavy metal concentrations in soil sediment and mussels of eastern North Dakota river systems, a work in progress.
American Society for Biochemistry and Molecular Biology (ASBMB), Minnesota State University-Moorhead, 2008.

Ost TJ, DeLorme A. Examining endocrine disrupting effects of Atrazine on *Drosophila melanogaster*.
American Society for Biochemistry and Molecular Biology (ASBMB), Minnesota State University-Moorhead, 2008.

Bata MA, Gienger HM, Dobmeier AD, Blunck BM, van Gijssel HE. Determining gene expression in the *Drosophila melanogaster* after multigenerational exposure to chlorophenoxy herbicides.
Proceedings of the ND Academy of Science, 2008.

Wisnewski WE, Blunck BM, van Gijssel HE. Effect of fibroblast growth factors and

chlorophenoxy herbicides on cell proliferation of human lung fibroblasts.
Proceedings of the ND Academy of Science, 2008.

Wieland LM, DeLorme AW. Determination of heavy metal concentrations in soil sediment and mussels of eastern North Dakota river systems.
Proceedings of the ND Academy of Science, 2008.

Dickinson State University

None

Mayville State University

Karlstad JP, Gonnella TP. Examining the Influence of Mg²⁺ on the Fluorescence Lifetime of NADH bound to ALDH2.
American Society for Biochemistry and Molecular Biology (ASBMB), Minnesota State University-Moorhead, 2008.

Karlstad J, Gonnella TP, Picklo MJ. A more detailed examination of the influence of magnesium ion on ALDH2 enzyme activity.
Proceedings of the ND Academy of Science, 2008.

Anderson E, Schmidt K, Talukder Z, Miklas P, Hossain K. Genetic diversity and selection of common bean genotypes for mapping genes conditioning mineral contents.
Proceedings of the ND Academy of Science, 2008.

Turtle Mountain Community College

None

Cankdeska Cikana Community College

None

North Dakota State University

Balaz S, Khandelwal A. A precise prediction of ligand binding affinities for metalloproteins. Keystone Symposium Molecular Targets for Cancer, Whistler, BC, Canada, 2007.

Balaz S, Khandelwal A, Natesan S, Wang T. T cell-QSAR.
Gordon Conference on Computer-Aided Drug Design, 2007.

Balaz S. Bioinformatics at NDSU,
Midwest CoBRE/INBRE Meeting, 2007.

University of North Dakota

Nelson B, Xu K, Goldenstein B, Luger E, Pribula J, Wald J, Weinshenker D, Charbeneau R, Huang X, Neubig R, Doze V. RGS protein suppression of G α o protein-mediated α 2A-adrenergic inhibition of mouse hippocampal CA3 epileptiform activity. Proceedings of the ND Academy of Science, 2008.

Goldenstein B, Jurgens C, Knudson C, Lichter J, Carr P, Perez D, Doze V. Alpha-1 adrenergic receptor regulation of seizures and neurodegeneration. Proceedings of the ND Academy of Science, 2008.

Wald JM, Goldenstein BL, Nelson BW, Xu K, Pribula JA, O'Brien JJ, Davis KL, Green KM, Bowse SJ, Lichter JA, Porter JE, Doze VA. Alpha-2 adrenergic receptor inhibition of hippocampal epileptiform activity: comparisons of ligand efficacy and potency. Proceedings of the ND Academy of Science, 2008.

Wilson JT, Drees K, Darland DC. The X-Files: Molecular Regulation of Neuraepithelial Migration In Early Mouse Brain Development. Proceedings of the ND Academy of Science, 2008.

Schlosser DD, Boese SJ, Knudson CA, Carr PA, Perez DM, Doze VA. α 1A adrenergic receptors regulate neurogenesis and cognitive function. Proceedings of the ND Academy of Science, 2008.