

Dr. Kenneth W. Gasser

Northern Illinois University
Biological Sciences (BIOS)
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Education

Ph D, Washington State University, 1985.
Major: Physiology

MS, Murray State University, 1979.
Major: Biology

BS, Bowling Green State University, 1976.
Major: Biology

Academic, Government, Military and Professional Positions

Academic - Post-Secondary

Director of Undergraduate Studies, Dept. Biological Sciences, NIU. (2002 - Present).

Associate Professor, Dept. Biological Sciences, NIU. (1996 - Present).

Assistant Professor, Dept. Biological Sciences, NIU. (1990 - 1996).

Professional Memberships

Sigma Xi Scientific Research Society.

National Association of Advisors for the Health Professions. (2007 - 2016).

American Physiological Society. (1988 - 2016).

Development Activities Attended

Continuing Education Program, "NIU Advisor Professional Development Workshop (FERPA)," NIU General Counsel, Registration and Records, DeKalb, IL. (January 29, 2014).

TEACHING

Teaching Experience

Northern Illinois University

Biology Senior Assessment, 6 courses.
300, Cell Biology, 1 course.
355, Human Physiology, 2 courses.
465, Cellular Physiology, 1 course.
494, Biology Senior Assessment, 2 courses.
BIOS 303, Cell Biology, 2 courses.
BIOS 355, Human Physiology, 4 courses.
BIOS 465, Cellular Physiology, 2 courses.
BIOS 494, Senior Assessment, 3 courses.

Directed Student Learning

Dissertation Committee Member, "Glutamate Transporters in Hepatocellular Carcinoma."
Advised: Claire Kron

Dissertation Committee Member, "Genetic Variation in the Eastern Massasauga."
Advised: Colin Jaeger

Dissertation Committee Member, "Comparative Toxicities of Commonly Used Pesticides on
Uraeplepis."
Advised: Edwin Burgess

Dissertation Committee Member, "Role of GOLM1 in Hepatocellular Carcinoma."
Advised: Gunisha Arora

Dissertation Committee Member, "Comparative Biology of Cnidarian Transport Systems."
Advised: Katherine Harmata

Dissertation Committee Member, "ASCT2 and LAT 1 in Hepatocellular Carcinoma," Other (Within
Northern Illinois University).
Advised: Paige Bothwell

Dissertation Committee Member, "RNA Silencing Suppressors in Brome mosaic Virus Genome."
Advised: Phillip Weber

Dissertation Committee Member, "Role of rtfA in Aspergillus fumigatus."
Advised: Ryan Myers

Dissertation Committee Member, "Role of 5'UTR of pilE in Neisseria gonorrhoeae."
Advised: Thao Lee

Master's Thesis Committee Member.
Advised: Deepa Merchant

Master's Thesis Committee Member.
Advised: Matthew Neil

Master's Thesis Committee Member.
Advised: Scott Gregerson

Dissertation Committee Member, "Role of veA in the Pathogenic Mold, Aspergillus fumigatus."
(2013).
Advised: Sourabh Dhingra

Master's Thesis Committee Member, "Mate Choice and Sexual Selection in Darters." (2013).
Advised: Rachel Moran

Directed Individual/Independent Study, "Electron Microscopy of Pancreatic Acinar Cells." (2012).
Advised: Kara Widell

Dissertation Defense Committee Member, "Demographic Patterns of the Lake Erie
Watersnake." (2012).
Advised: Kristin Stanford

Master's Thesis Committee Member, "Necrosis in Glioblastoma Tumor Cells." (2012).
Advised: Kathryn Owens

Master's Thesis Committee Member, "Proapoptotic Killing Strategy for Glioblastoma." (2012).
Advised: Miranda Foster

Awards and Honors

2013 Mortar Board Faculty Recognition Award, Mortar Board Senior Honor Society.

NIU Excellence in Undergraduate Teaching Award. (2010).

Excellence in Teaching Award, NIU Chapter of Mortar Board Honor Society. (2007).

NSCS Outstanding Teacher of the Year Award, nominated. (2006).

University Excellence in Undergraduate Teaching Award, College of Liberal Arts and Sciences
Nominee. (2003).

Departmental Nominee, University Excellence in Undergraduate Teaching Award. (2001).

Excellence in Teaching Award, NIU Chapter of Mortar Board National Senior Honor Society.
(1998).

Outstanding Teacher Award, Department of Biological Sciences, NIU. (1992).

RESEARCH

Published Intellectual Contributions

Conference Proceeding

Gasser, K., Lindley, K., Smith, M. (1996). *ATP-sensitive K⁺ transport in rat pancreatic zymogen granule membranes and activation by protein kinase A* (vol. 70, pp. A293). Biophys. J..

Hahin, R., Larsen, J. J., Gasser, K. (1996). *ED50 predictions for A.P. block for aliphatic solutes*. Forty-first Annual Biophysical Society Meeting.

Hahin, R., Larsen, J., Gasser, K. (1996). *ED50 predictions for AP block for aliphatic solutes* (vol. 70, pp. A405). Biophys. J..

Gasser, K., Stahl, A. M. (1995). *The effect of phospholipase D and phosphatidic acid on exocytotic membrane fusion in vitro* (vol. 68, pp. A118). (Biophysical Society). Biophys. J..

Gasser, K., Stahl, A. M., Holda, J. R. (1993). *Secretory granule electrolyte transport coupled to exocytotic membrane fusion* (vol. 7, pp. 3347a). (Experimental Biology) FASEB J..

Gasser, K., Holda, J. R., Wilson, L. T. (1992). *Regulation of secretory vesicle chloride transport by phospholipase A2* (vol. 6, pp. 3178a). FASEB J..

Journal Article, Academic Journal

Hahin, R., Larsen, J., Gasser, K. (2008). Predictions of the EC50 for Action Potential Block for Aliphatic Solutes. *J. of Membrane Biology*, 221, 73-85.

- Hahin, R., Larsen, J., Gasser, K. (2008). Predictions of the ED50 for action potential block for aliphatic solutes. *J. Membrane Biol.*, 2(73-85).
- Connely, R., Gasser, K., Traber, D. (2006). CCK and NO coordinate the assembly of a multi-protein complex leading to Erk activation. *Nitric Oxide*, 14, 2-3.
- Blaine, K., Gasser, K., Conway, S. (1999). The influence of fetal alcohol exposure on the GABAergic regulation of growth hormone release in postnatal rats. *Alcoholism: Clin. Exp. Res.*, 23, 1681-1690.
- Larsen, J., Gasser, K., Hahin, R. (1996). An analysis of dimethylsulfoxide-induced action potential block: A comparative study of DMSO and other aliphatic water soluble solutes. *Toxicol. Appl. Pharmacol.*, 140, 296-314.
- Gasser, K., Holda, J. R. (1994). The effect of phospholipase A2 on chloride transport by pancreatic secretory granules. *Biochim. Biophys. Acta*, 1194, 123-130.
- Gasser, K., Holda, J. R. (1993). ATP-sensitive potassium transport by the pancreatic secretory granule membrane. *American Journal of Physiology*, 264, G137-G142.
- Gasser, K., Hopfer, U. (1990). Chloride transport across the membranes of parotid secretory granules. *Am. J. Physiol.*, 259, C413-C420.
- Thevenod, F., Gasser, K., Hopfer, U. (1990). Dual modulation of chloride conductance by nucleotides in pancreatic and parotid zymogen granules. *Biochem. J.*, 272, 119-126.
- Gasser, K., Goldsmith, A., Hopfer, U. (1990). Regulation of chloride transport in parotid secretory granules by membrane fluidity. *Biochemistry*, 29, 7282-7288.

Presentations Given

Invited/Accepted Not Specified

- Lotshaw, D., Grayburn, W. S., Yasui, L., Gasser, K., Exp. Biol. National Meeting, "Expression of the two-pore domain potassium channel, TASK-2, in rat pancreatic acinar cell zymogen granule membrane." (2008).
- Connely, R., Gasser, K., National Meeting of AAAS, "The role of nitric oxide in pancreatic signal transduction," Washington, DC. (2005).
- Hopfer, U., Gasser, K., Thevenod, F., IADR Annual Symposium, "Ion transport in secretory granules." (1990).

Contracts, Grants and Sponsored Research

Grant

- Yasui, L., Blackstone, N., Bross, L., Bode, B., Bujarski, J., Calvo, A., ElSawa, S., Gasser, K., Hosmane, N., Ito, Y., Xu, T., "Great Journeys Strategic Plan: Scientific Instrumentation and Equipment Proposal," Sponsored by NIU graduate school, Northern Illinois University, \$51,950.00. (April 2012 - Present).
- Gasser, K. (Principal), "Regulation of zymogen granule K⁺ transport and exocytosis," Sponsored by National Institutes of Health, Federal, \$103,600.00. (1994 - 1997).

SERVICE

Department Service

Committee Member, Governance Committee.

Committee Chair, Grade Appeal committee.

Committee Member, Secondary Education Committee.

Committee Chair, Undergraduate Assessment Committee.

Faculty Advisor, Student Pre-Professional Association. (2007 - 2016).

Committee Member, Animal Facilities Committee. (September 2005 - 2016).

Committee Member, General Education Assessment Sub-Committee. (2005 - 2016).

Faculty Advisor, Phi Sigma Biology Students Honor Society. (2003 - 2016).

Committee Chair, Scholarship Committee. (2003 - 2016).

Committee Chair, Undergraduate Committee (includes curriculum). (2003 - 2016).

College Service

Faculty Advisor, Pre-Professional advisor (CLAS). (2007 - 2016).

University Service

Faculty Judge for University Research Day.

Program Coordinator, UIC-NIU Pharmacy Affiliation. (2016).

Committee Member, IACUC. (2007 - 2016).

Committee Member, Committee on the Undergraduate Acad. Environment. (August 2013 - June 2015).

Public Service

Student Recruitment.