

CURRICULUM VITAE

Todd M. Hoagland, Ph.D.

Work Address:

Boston University School of Medicine
Assistant Professor of Anatomy and Neurobiology
Gross Anatomy Course Director
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Education:

1997-2001 Ph.D. Physiology; University of Notre Dame
1995-1997 MS. Physiology; Portland State University
1987-1991 BS. Biology; Bucknell University

Professional Societies:

International Association of Medical Science Educators
American Association of Anatomists
American Physiological Society
Society of Integrative and Comparative Biology
Sigma Xi
Phi Sigma Society, alpha iota chapter

Honors and Awards:

Pre-clinical Educator of the Year: Nominee for teaching in Gross Anatomy,
Boston University School of Medicine, 2002 & 2003.

Best Student Presentation Award: Division of Comparative Physiology and
Biochemistry of SICB. Systemic vascular compliance in two amphibians.
Chicago, IL, 2001.

Excellence in Teaching Award: University of Notre Dame biology department,
Kaneb center, 2000.

Aubrey Gorbman Award: Honorable mention outstanding student presentation,
Society of Integrative and Comparative Biology, Atlanta, GA, 2000.

Best student presentation: Honorable mention, International Congress on the
Biology of Fishes, Baltimore, MD, 1998.

NSF Summer support, Portland State University, 1997.

Woods Hole Marine Science Consortium Summer Grant, Marine Biological
Laboratory, Woods Hole, MA, 1990.

Bucknell University young scientist grant, 1989.

Current Teaching:

Neurobiology and Anatomy of the Head and Neck. Proposed for 2005.
Vesalius Program, Teaching Practicum II. 2004 to present.
Medical Gross Anatomy, Course Director. 2003 to present.
Journal Club. Course Director. 2002 to present.
Summer Gross Anatomy. 2002 to present.
Dental Gross Anatomy. 2002 to present.
Medical Physiology. Lecturer on cardiovascular physiology and lab instructor.
Department of Physiology and Biophysics. 2002.
Medical Gross Anatomy. 2001 to present.

Invited Presentations:

Todd Hoagland. 2003 FASEB conference (San Diego). Vascular capacitance in fish. *Comparative Physiology section*.
Todd Hoagland, Katie Brakora and Kenneth Olson. 2002 FASEB conference (New Orleans). Environmental salinity manipulation affects fluid volume compartments and key indices of cardiovascular hemodynamics in the rainbow trout. *Comp. Physiology section*.
Todd Hoagland. 2001. Louisiana State University Health Science Center. Blood Volume Perturbations Affect Venous Function and Cardiovascular Homeostasis in the Rainbow Trout (*Oncorhynchus mykiss*). Research seminar.
Todd Hoagland. 2001. University of Massachusetts Worcester. Vascular Capacitance in fish. Research Seminar.
Todd Hoagland. 2001. Boston University School of Medicine. Venous Function in Fish. Research Seminar.
Todd Hoagland. 2000. Southern Oregon University. Vascular Capacitance in Fish, Research Seminar.

Teaching Experience:

2003-present: Gross Anatomy Course Director, Boston University School of Medicine.
2003-present: Adjunct Assistant Professor Goldman School of Dental Medicine.
2002-present: Adjunct Assistant Professor of Physiology and Biophysics, Boston University School of Medicine, cardiovascular physiology.
2001-present: Assistant Professor of Anatomy and Neurobiology, Boston University School of Medicine.
2000 Fall: Adjunct Assistant Professor of Anatomy, Indiana Univ. School of Medicine. Responsibilities: Lecture and laboratory for first year medical students; Problem Based Learning emphasis.

- 1997-2001: Graduate Teaching Assistant, University of Notre Dame.
- 1998-1999: Human Gross Anatomy Lab, Indiana University School of Medicine.
- 1998-2001: Human Physiology Lab, Indiana University School of Medicine.
- 1997-1998 General Biology Laboratory, University of Notre Dame.
- 1996-1997: Adjunct Faculty: Clark College; Vancouver, Washington, Laboratory Instructor for Human Anatomy and Physiology.
- 1995-1997: Graduate Teaching Assistant, Portland State University; Portland, Oregon, Laboratory Instructor for Human Anatomy and Physiology.
- 1993-1997: Kaplan MCAT Biology instructor.
- 1990-1991: Undergraduate Teaching Assistant, Bucknell University, General Biology.

Publications:

In Print

- Todd M. Hoagland. Dissection video of the Back. Teaching material. 2004.
- Todd M. Hoagland. The Carnegie Initiative on the Doctorate (CID). Newsletter from the Department of Anatomy and Neurobiology, 1(3): 1,6; 2004.
- Todd M. Hoagland. Lab Manager Rob Bouchie Strengthens Body Donor Program. Newsletter from the Department of Anatomy and Neurobiology, 1(4): 5; 2004.
- Todd M. Hoagland. Introduction to the Gross Anatomy Laboratory. Video teaching material. 2003.
- Rob Bouchie and Todd Hoagland. The Gift of Learning Through Donation. Video teaching material. 2003.
- Minerick, Adrienne, Hsueh-Chia Chang, Todd M. Hoagland & Ken Olson. Dynamic Synchronization Analysis of Venous Pressure-Driven Cardiac Output in Rainbow Trout. *Am J Physiol Regul Integr Comp Physiol* 285: R889-R896, 2003.
- Jung I. Park, Todd Hoagland and M.S. Park. Anatomy of the Corrugator Supercilii Muscle. *Arch Facial Plast Surg.*, 5: 412-415, 2003.
- Todd M. Hoagland. Gross anatomy educators find excellent job opportunities. *American Association of Anatomists Newsletter*, 11(2): 2-3, 2002.
- Todd M. Hoagland. Blood volume perturbations affect venous function and cardiovascular homeostasis in the rainbow trout (*Oncorhynchus mykiss*). Ph.D. dissertation, University of Notre Dame. 2001.
- Todd M. Hoagland, L. Weaver, J.M. Conlon, Y. Wang and K.R. Olson. Effects of endothelin-1 and homologous trout endothelin on cardiovascular function in rainbow trout. *American Journal of Physiology*, 278(2): R460-R468, 2000.

- Hancock, T.V., T.M. Hoagland and S.S. Hillman. Whole body systemic transcapillary filtration rates, coefficients and isogravimetric capillary pressures in *Bufo marinus* and *Rana catesbeiana*. *Physiological and Biochemical Zoology*. 73(2): 161-168, 2000.
- Steve F. Perry, R. Fritsche, Todd M. Hoagland, D.W. Duff, K.R. Olson. The control of blood pressure during external hypercapnia in the rainbow trout (*Oncorhynchus mykiss*), *The Journal of Experimental Biology*, 202, 2177-2190, 1999.
- Todd M. Hoagland. Whole Body *in vivo* vascular compliance in two amphibians, *Bufo marinus* and *Rana catesbeiana*. MS. Thesis, Portland State University. 1997.

Abstracts

- Romina Ilic, J. Grivetti and Todd Hoagland. 2004. Dynamic Compliance Determination in the Unanesthetized Anuran, *Bufo marinus*. Russek Day, Boston University School of Medicine.
- Ken Olson, Adrienne Minerick & Todd Hoagland. 2003 FASEB Conference. Confirmation of Venous Pressure Driven Cardiac Output from Dynamic Synchronization Analysis, *Comparative Physiology Section*.
- Adrienne Minerick, Todd Hoagland, & Ken Olson. 2003. Confirmation of Venous Pressure Driven Cardiac Output from Dynamic Synchronization Analysis., *Advances in Sensors, Optimization and Control for Biological Systems*.
- Todd M. Hoagland, Katie Brakora and K.R. Olson. 2002. Environmental salinity manipulation affects fluid volume compartments and key indices of cardiovascular hemodynamics in the rainbow trout. FASEB, New Orleans.
- Todd M. Hoagland and K.R. Olson. 2001. Opening the pericardium affects venous function in trout. FASEB, April conference.
- Todd M. Hoagland, T.V. Hancock and S.S. Hillman. Systemic vascular compliance in two amphibians. *American Zoologist*.
- Todd M. Hoagland and K.R. Olson. 1999. Effects of endothelin-1 and homologous trout endothelin on cardiovascular function in rainbow trout. *American Zoologist*, 39(5): 367.
- Todd M. Hoagland, K.R. Olson and S.F. Perry. 1998. Cardiovascular effects of environmental hypercapnia in the rainbow trout *in vivo*. International Conference on the Biology of Fish, Fish Cardiovascular Function: Control Mechanisms and Environmental Influences. 139-143.
- Todd M. Hoagland, R. Fritsche, D.W. Duff, K.R. Olson and S.F. Perry. 1998. Cardiovascular effects of environmental hypercapnia in the rainbow trout (*Oncorhynchus mykiss*), *in vivo*. *American Zoologist*, 38(5), 665.

Presentations and Posters

- Todd M. Hoagland. 2004. Medicine as a Career. Presentation to Delta Academy.

- Romina Ilic, J. Grivetti and Todd Hoagland. 2004. Dynamic Compliance Determination in the Unanesthetized Anuran, *Bufo marinus*. Russek Day, Boston University School of Medicine.
- Ken Olson, Adrienne Minerick & Todd Hoagland. 2003 FASEB Conference. Confirmation of Venous Pressure Driven Cardiac Output from Dynamic Synchronization Analysis, *Comparative Physiology Section*.
- Adrienne Minerick, Todd Hoagland, & Ken Olson. Confirmation of Venous Pressure Driven Cardiac Output from Dynamic Synchronization Analysis. 11/16/03, *Advances in Sensors, Optimization and Control for Biological Systems*.
- Todd M. Hoagland, Katie Brakora and K.R. Olson. 2002. Environmental salinity manipulation affects fluid volume compartments and key indices of cardiovascular hemodynamics in the rainbow trout. FASEB, New Orleans.
- Katie Brakora, T.M. Hoagland, D.C. Hambleton and K.R. Olson. 2001. Blood pressure and volume measurements in fresh and salt water-adapted rainbow trout. University of Notre Dame undergraduate research symposia.
- Todd M. Hoagland and K.R. Olson. 2001. Opening the pericardium affects venous function in trout. FASEB, Orlando, Florida.
- Todd M. Hoagland, M.. Roeser and K.R. Olson. 2001. Venous function in trout. The Society for Integrative and Comparative Biology, Chicago, Illinois.
- Todd M. Hoagland, T.V. Hancock and S.S. Hillman. 2001. Systemic vascular compliance in two amphibians. The Society for Integrative and Comparative Biology, Chicago, Illinois. *Best Student Presentation Award: Division of Comparative Physiology and Biochemistry of SICB.
- Jung I. Park, M.D. and Todd M. Hoagland. 2000. En bloc facelift: "A new concept". Facial Plastic Surgery 2000 conference, Indianapolis, Indiana.
- Todd M. Hoagland and K.R. Olson. 1999. Effects of endothelin-1 and homologous trout endothelin on cardiovascular function in rainbow trout. The Society for Integrative and Comparative Biology. Atlanta, Georgia. *Aubrey Gorbman Award-Honorable mention for outstanding student presentation. **Chairman of the comparative endocrinology section.
- Todd M. Hoagland, K.R. Olson and S.F. Perry. 1998. Cardiovascular effects of environmental hypercapnia in the rainbow trout (*Oncorhynchus mykiss*), *in vivo*. International Conference on the Biology of Fish, American Fisheries Society. Towson, Maryland. *Best student presentation-Honorable mention.
- Todd M. Hoagland, R. Fritsche, D.W. Duff, K.R. Olson and S.F. Perry. 1998. Cardiovascular effects of environmental hypercapnia in the rainbow trout (*Oncorhynchus mykiss*), *in vivo*. The Society for Integrative and Comparative Biology. Denver, Colorado.
- Hancock T.V., T.M. Hoagland and S.S. Hillman. 1997. Whole body systemic transcapillary filtration rates, coefficients and isogravimetric capillary

pressures in *Bufo marinus* and *Rana catesbeiana*. Physiological Ecology Conference. White Mountain Research Station Bishop, California.

Todd M. Hoagland and S.S. Hillman. 1997. Mean Circulatory Filling Pressure in two amphibians. Physiological Ecology Conference. White Mountain Research Station Bishop, California.

Service Experience:

2004-present: Honors and Awards Committee for BUSM to determine which medical students graduate with honors.

2004-present: McNary Award Committee (Award for the most outstanding graduate student teaching assistant in the Department of Anatomy and Neurobiology).

2004-present: Pre-clinical Medical Education Committee (Curriculum)

2004-present: Carnegie Initiative on the Doctorate – Chairman, Full Circle Mentoring Subcommittee.

2004-present: Carnegie Initiative on the Doctorate – Teaching Subcommittee.

2003-present: Academy of Advisors for Boston University School of Medicine.

2003-present: Carnegie Initiative on the Doctorate – Leadership Team member.

2003-present: Graduate Student Committee. Department of Anatomy and Neurobiology, BUSM.

2002-present: Promotions Committee. Boston University School of Medicine.

1999-2001: Graduate student / Faculty representative. Responsibilities include: attend all faculty meetings, report pertinent information back to biology graduate students. University of Notre Dame.

Graduate Students Supported:

Janice Grivetti. 2004. Dynamic compliance determination in the unanesthetized anuran, *Bufo marinus*. MS. Thesis, Boston University School of Medicine, Department of Anatomy & Neurobiology.

Romina G. Ilic. 2004. The effects of epinephrine, ANP and prazosin on vascular compliance in the cane toad, *Bufo marinus*. MS. Thesis, Boston University School of Medicine, Department of Anatomy & Neurobiology.

Dominic Amirtharaj. 2003. The cardiovascular benefits and breast cancer risks of hormone replacement therapy. MS. Thesis, Boston University School of Medicine.

Lawrence Tabone. 2003. Potential causes, treatments and therapies of atherosclerosis. MS. Thesis, Boston University School of Medicine.

Jason Park. 2002. Salvage of the severely deformed Charcot joint. MS. Thesis, Boston University School of Medicine.