Michael Baron

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Summary

Neuroendocrinologist with a highly adaptable skill set in the second year of a PhD program in a teamwork oriented interdisciplinary laboratory. Areas of expertise include molecular biology and cell culture with basic training in protein biochemistry. Communication skills have been well developed through presentations at regional, national and international conferences.

Education

2003-Present **PhD Biochemistry and Molecular Biology**, University of New Hampshire, Durham NH.

- Analysis of the reproductive axis in the lamprey: characterization of the interrelationships between estrogen, GABA, and GnRH in the lamprey brain.

2000-2003 **MS Zoology**, University of New Hampshire, Durham NH.

1996-2000 **BS Marine Biology/Environmental Chemistry**, Roger Williams University, Bristol RI.

Technical Training

Molecular Biology -Chromatic and Fluorescent in situ hybridization, DNA/RNA extraction, cDNA synthesis and cloning, polymerase chain reaction (PCR), sequence analysis, reverse transcriptase-PCR, agarose gel electrophoresis, plasmid preparation.

Cell Culture -cloning, hybridomas, cryopreservation, explant culture

Biochemistry -SDS PAGE, enzymeimmunoassay, radioimmunoassay, various chromatographic separation techniques (ion exchange, affinity, gel filtration, thin layer, HPLC).

Other -Radiation user training, basic techniques in microbiology, field collection, aquatic animal handling and care, competent with PC and Mac, Office and other analysis software.

Graduate Coursework

Fish Biology
Animal Behavior
Developmental Biology
Endocrinology
Statistics
Principals of Biochemistry I and II
Regulatory Mechanisms in Biochemistry
Cell Culture
Research Methods in Endocrinology
Biochemistry Seminar (4 Semesters)
GPA: 3.52

Publications

Baron MP, Silver MR, Sower, SA. 2005. Bisphenol A Attenuates GnRH and GnRH Receptor Concentrations In Lamprey. (Submitted).

Baron MP. 2003. All-*trans* retinoic acid stimulates pigmentation development in summer flounder (*Paralichthys dentatus*). (abstract) Society for Integrative and Comparative Biology. New Orleans, LA.

Baron MP, Martinez G, Bolker, JA. 2005. All-*trans* retinoic acid stimulates pigmentation development in summer flounder (*Paralichthys dentatus*). (In Prep).

Teaching Experience

Fall 2004 – Spring 2005 NSF Teaching Fellow for the GK-12 Program*
*Initiative to develop high school science curriculum

Teaching Assistant (laboratory courses)

Fall	2004	Biochemistry
Spring	2004	Biology
Spring	2003	Developmental Biology
Fall	2001	Developmental Biology
Spring	2001	Vertebrate Morphology
Spring	2000	Vertebrate Morphology

Abstracts Presented at International and Regional Conferences

Baron MP. All-*trans* retinoic acid stimulates pigmentation development in summer flounder (*Paralichthys dentatus*). 8th Biennial Flatfish Biology Conference (2002). Oral.

Baron MP. Retinoic acid stimulates pigmentation development in summer flounder: Insight into nuclear receptor dynamics. (2004). Oral.

Baron MP, Silver MR, Sower SA. Bisphenol A attenuates GnRH and GnRH receptor concentrations in lamprey. International Congress of Comparative Endocrinology (2005). Poster.

Meetings attended

2000 7th Biennial Flatfish Biology Conference, Mystic, CT. December 5th-6th.
2002 8th Biennial Flatfish Biology Conference, Westbrook, CT. December 10th-11th.
2003 New England Endocrinology Conference, Dartmouth Medical School, Lebanon, NH. October 12th.
2004 Meeting of the Society for Integrative and Comparative Biology, New Orleans, LA. January 5th-9th.
2005 International Congress of Comparative Endocrinology, Boston, MA. May 23rd-27th.

Sources and Levels of Support

2001 UNH Competitive Summer Research Fellowship ($2000)
2005 Center for Marine Biology travel and registration assistance funding to attend the 15th International Congress of Comparative Endocrinology ($170)

References upon request

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