
Jacob W. Bledsoe

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Hagerman Fish Culture Experiment Station, 3059F Ntl. Fish Hatchery Rd. Hagerman, ID 83332

Education

- 2020 **Doctor of Philosophy: Natural Resources, Fish Physiology**
University of Idaho; Moscow, Idaho
- 2015 **Master of Science: Animal Science**
Southern Illinois University; Carbondale, Illinois
- 2012 **Bachelor of Science: Aquatic Sciences**
Associate of Science: Agricultural Economics
Purdue University; West Lafayette, IN

Professional Appointments

- 02/2022 – Present **Assistant Professor – Aquaculture Research and Extension Specialist**
Aquaculture Research Institute and Dept. of Animal, Veterinary & Food
Sciences, University of Idaho – Hagerman, ID
- 11/2021 – 01/2022 **Research Geneticist (Animal)**
USDA-ARS, NCWMAC, NEPSWRL – Orono, ME
- 11/2020 – 10/2021 **Postdoctoral Researcher (Animal Geneticist)**
USDA-ARS, HFCES (Dr. Ken Overturf) – Hagerman, ID

Selected Publications

Multi-tissue RNAseq reveals genetic and temporal differences in acute response to viral (IHNV) infection among three selected lines of rainbow trout with varying resistance
Bledsoe JW, Ma J, Cain K, Bruce TJ, Rawles A, Abernathy J, Welker T, and Overturf KE; 2022, Fish and Shellfish Immunology, DOI: 10.1016/j.fsi.2022.03.034.

Functional feeds marginally alter immune expression and microbiota of Atlantic salmon (*Salmo salar*) gut, gill, and skin mucosa though evidence of tissue-specific signatures and host-microbe coadaptation remain
Bledsoe JW, Pietrak MR, Burr GS, Peterson BC, and Small BC; 2022, Animal Microbiome 4:20, DOI: 10.1186/s42523-022-00173-0

Latitude™ oil as a sustainable alternative to dietary fish oil in rainbow trout (*oncorhynchus mykiss*): effects on filet fatty acid profiles, intestinal histology, and plasma biochemistry
Hong J, Bledsoe JW, Overturf KE, Lee S, Iassonova D, and Small BC; 2022, Frontiers in Sustainable Food Systems 6:837628, DOI: 10.3389/fsufs.2022.837628

Digesta and plasma metabolomics of rainbow trout strains with varied tolerance of plant-based diets highlights potential for non-lethal assessments of enteritis development

Palma M[†], Bledsoe JW[†], Tavares LC, Romano N, Small BC, Viegas I, and Overturf KE; 2021, *Metabolites* 11:590, DOI: 10.3390/metabo11090590

Selection on a plant-based diet reveals changes in oral tolerance, microbiota and growth in rainbow trout (*Oncorhynchus mykiss*) when fed a high soy diet

Blaufass PC, Bledsoe JW, Gaylord GT, Sealey WM, Overturf KE, and Powell MS; 2020 *Aquaculture* 525:735287, DOI: 10.1016/j.aquaculture.2020.735287

Characterization of a third ghrelin receptor, GHS-R3a, in channel catfish reveals novel expression patterns and a high affinity for homologous ligand

Small BC, Quiniou SMA, Kaiya H, Bledsoe JW, and Musungu B; 2018 *Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology* 229, DOI: 10.1016/j.cbpa.2018.11.013

Comparison of channel catfish and blue catfish gut microbiota assemblages shows minimal effects of host genetics on microbial structure and inferred function

Bledsoe JW, Waldbieser GC, Swanson KS, Peterson BC, and Small BC; 2018 *Frontiers in Microbiology* 9, DOI: 10.3389/fmicb.2018.01073

Targeted gene expression panels and microbiota analysis provide insight into the effects of alternative production diet formulations on channel catfish nutritional physiology

Schroeter JC, Peterson BC, Bledsoe JW, Li M, and Small BC; 2018 *Aquaculture* 489, DOI: 10.1016/j.aquaculture.2018.02.004

Ontogenetic characterization of the intestinal microbiota of channel catfish through 16s rRNA gene sequencing reveals insights on temporal shifts and the influence of environmental microbes

Bledsoe JW, Peterson BC, Swanson KS, and Small BC; 2016 *PLoS ONE* 11(11), DOI: 10.1371/journal.pone.0166379