Zebrafish (Danio rerio) Environmental Summary, Aquatic Resources Program, Boston Children's Hospital 2018

Version 3

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ABSTRACT

Environmental and housing conditions experienced by laboratory animals exert profound effects on their biology, physiology, and behavior. These parameters are important and often overlooked sources of potential variation in experiments, and should be reported in peer-reviewed publications in order to promote scientific reproducibility. To that end, here we provide a summary of the environmental conditions in zebrafish (Danio rerio) aquaculture facilities at Boston Children's Hospital (BCH). We include data on the physico-chemical, health, and nutrition of zebrafish in three separate facilities at BCH: Karp, Enders SSB, and Enders Lobby*. In this year's version, we also include new information on our sanitization protocols and equipment. We also provide some additional characterization of our sampling methods for water parameters and health in a legend. This information will be applicable to any study involving zebrafish conducted in one of these three facilities during the year of 2018.

**version amended to include new information on diet in this facility.*

EXTERNAL LINK

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THIS PROTOCOL ACCOMPANIES THE FOLLOWING PUBLICATION

Widrick JJ, Gibbs DE, Sanchez B, Gupta VA, Pakula A, Lawrence C, Beggs AH, Kunkel LM (2018) An open source microcontroller based flume for evaluating swimming performance of larval, juvenile, and adult zebrafish. PLoS ONE 13(6): e0199712. doi: 10.1371/journal.pone.0199712

BCH Danio rerio Environmental Summary 2017 .pdf

BCH Danio rerio Environmental Summary 2018.pdf

BCH Danio rerio Environmental Summary 2018a.pdf

PROTOCOL STATUS

Working

We use this protocol in our group and it is working