



***Institutional Animal Care & Use Committee  
(IACUC)***

***MBL***

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Linda Deegan  
MBL  
Ecosystems  
7 MBL Street  
Woods Hole , MA 02543 USA

March 11, 2016

**Assigned protocol number: 16-13**

Dear Dr. Linda Deegan,

The following First Renewal Application, submitted to the Marine Biological Laboratory's Institutional Animal Care & Use Committee, was reviewed and approved.\* This approval expires one year from the approval date shown below.

**Approved on: March 7, 2016**

**Project Title:** The three projects and proposals covered under this IACUC share a common objective - understanding how the arctic is changing and the effects on ecosystem dynamics, including fish populations, sampling sites, species and protocols. Arctic LTER Project: Regional Variation in Ecosystem Processes and Landscape Linkages (NSF-DEB 0423385), Collaborative Research:

**Investigator(s):** Linda Deegan, Mark Urban, Bruce Peterson, Alex Huryn, Phaedra Budy, Breck Bowden, Heidi Golden, Cameron MacKenzie, Michael Kendrick, Dan White, Josh Benes, and seasonal employees to be hired.

**Approved Use:** *Thymallus arcticus* (Arctic grayling), *Salvelinus alpinus* (Arctic char) (225), *Salvelinus malma* (Dolly varden), *Lota lota* (Burbot) (30), *Salvelinus namaycush* (Lake trout) (380), *Prosopium cylindraceum* (Round whitefish) (50), *Cottus cognatus* (Slimy sculpin) (275)

Sincerely,

A handwritten signature in black ink, appearing to read 'AM Kuzirian', with a stylized flourish at the end.

Alan M. Kuzirian, PhD  
IACUC Chairman

\*This institution has an Animal Welfare Assurance on file with the Office of Laboratory Animal Welfare (OLAW), No. A3070-01. Our Animal Facility is registered with the USDA. The registration number is 14-R-0119. The MBL conducts its reviews in accordance with USPHS regulations and applicable federal and local laws. The composition of the IACUC is in accord with USPHS policy.

