

# **QUBES Hub: A Vision of Online Collaboration in Teaching and Learning in Quantitative Biology**

**Robert Sheehy, Drew LaMar, Carrie Eaton, Dorothy Belle Poli and Anil Shende**

Radford University, Biology Department, Box 1469, Radford VA 24142 USA  
([rsheehy@radford.edu](mailto:rsheehy@radford.edu))

As quantitative tools are recognized as more important to biologists, and biological applications of more interest to mathematicians, an interdisciplinary approach to education in these areas is crucial. Curricular materials for quantitative biology education are being developed at a number of levels; by individuals, via department or college initiatives, and through various professional societies. This dispersed approach has resulted in multiple, non-communicating, repository sites, many of which remain opaque to the quantitative biology community and makes the sharing of information and ideas difficult. To address these difficulties in information sharing, we are creating a compact between several organizations devoted to this common mission of Quantitative Undergraduate Biology Education and Synthesis (QUBES). Our goal is to bring these organizations together to sponsor a single, dynamic, community-sourced hub of educational materials and social-network of users. Here we will present a review of some of the existing and planned functionality of QUBES, and solicit feedback and requested features from those in attendance.

---

## **Mission, Review Process & Disclaimer**

The Association for Biology Laboratory Education (ABLE) was founded in 1979 to promote information exchange among university and college educators actively concerned with teaching biology in a laboratory setting. The focus of ABLE is to improve the undergraduate biology laboratory experience by promoting the development and dissemination of interesting, innovative, and reliable laboratory exercises. For more information about ABLE, please visit <http://www.ableweb.org/>

Papers published in *Tested Studies for Laboratory Teaching: Peer-Reviewed Proceedings of the Conference of the Association for Biology Laboratory Education* are evaluated and selected by a committee prior to presentation at the conference, peer-reviewed by participants at the conference, and edited by members of the ABLE Editorial Board.

## **Citing This Article**

Sheehy, R., D. LaMar, C. Eaton, D. B. Poli, and A. Shende. 2015. QUBES Hub: A Vision of Online Collaboration in Teaching and Learning in Quantitative Biology. Article 79 in *Tested Studies for Laboratory Teaching*, Volume 36 (K. McMa-hon, Editor). Proceedings of the 36th Conference of the Association for Biology Laboratory Education (ABLE). <http://www.ableweb.org/volumes/vol-36/?art=79>

Compilation © 2015 by the Association for Biology Laboratory Education, ISBN 1-890444-18-9. All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of the copyright owner.

ABLE strongly encourages individuals to use the exercises in this proceedings volume in their teaching program. If this exercise is used solely at one's own institution with no intent for profit, it is excluded from the preceding copyright restriction, unless otherwise noted on the copyright notice of the individual chapter in this volume. Proper credit to this publication must be included in your laboratory outline for each use; a sample citation is given above.