



LEGO® brick activities for the biochemistry and molecular biology lab

Shane Austin

University of the West Indies, Cave Hill Campus, Biological and Chemical Sciences Department, P.O. Box 64
Bridgetown, BB11000, Barbados

Abstract

Students enter molecular biology and biochemistry labs to perform cloning experiments and find themselves pipetting endless volumes of colorless liquids. This practical activity acts as a simulation to engage students and encourage them to consider multiple modes of representation of biological concepts. LEGO® bricks will be used as a versatile tool that is easily accessible to both students and educators to illustrate their concepts, other easily accessible tools will be used and other possible extensions to the lab will be discussed with educators so that they can add specific content to their classes.

Keywords:

Citation: Austin S. 2024. Lego® brick activities for the biochemistry and molecular biology lab. Abstract 2 in: Boone E and Thuecks S, eds. *Advances in biology laboratory education*. Volume 44. Publication of the 44th Conference of the Association for Biology Laboratory Education (ABLE). DOI: <https://doi.org/10.37590/able.v44.abs2>

Correspondence to: Shane Austin, shane.austin@cavehill.uwi.edu

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 <https://www.ableweb.org/>.

Papers published in *Advances in Biology Laboratory Education: Peer-Reviewed Publication 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.

Compilation © 2024 by the Association for Biology Laboratory Education, ISSN 2769-1810. 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 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 below the abstract.