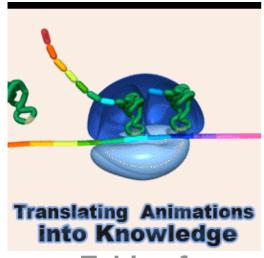
# CATION A Journal of Life Science Education

Search

Discussion Forums | Editorial Board | Electronic Resources | Instructions to Authors

## Volume 4 Summer Issue





### Table of **Contents**



Use Arrows to Browse Previous Issues

#### Contact CBE

8120 Woodmont Avenue Suite 750 Bethesda, Maryland 20814-

2762

Phone: (301) 347-9300 Fax: (301) 347-9350 cbe@ascb.org



#### **FEATURES**

- WWW.Cell Biology Education: Using the World Wide Web To Develop a **New Teaching Topic** by Robert V. Blystone and Barbara MacAlpine
- **Approaches to Biology Teaching and Learning: Understanding the Wrong Answers—Teaching toward Conceptual Change** by Kimberly Tanner and Deborah Allen
- From the National Academies: Overview of the National Research Council's Board on Science Education and Personal Reflections as a Science **Teacher** by Carl Wieman
- Why Intelligent Design Isn't Intelligent Review of: Unintelligent Design, by Mark Perakh; 2003; 459 pp.; Prometheus Books (New York): ISBN: 1-5910-2084-0 by Mark D. Decker
- Points of View: A Survey of Survey **Courses: Are They Effective?** by Arri Eisen; Janet M. Batzli; David Becker; Douglas, M. Fambrough, Rebecca Pearlman, Richard Shingles, and Rae Brosnan; and Mary Lee Ledbetter and A. Malcolm Campbell

**ESSAY** 

Editorial Board Member Login



Supported in part by an Undergraduate Science Education Program grant from the Howard Hughes Medical Institute

"Shrink Wrapping" Lectures:
 Teaching Cell and Molecular Biology within the Context of Human Pathologies
 by William H. Guilford

#### **ARTICLES**

- Introductory Biology Courses: A
   Framework To Support Active
   Learning in Large Enrollment
   Introductory Science Courses
   by Ann C. Smith, Richard Stewart,
   Patricia Shields, Jennifer Hayes Klosteridis, Paulette Robinson, and
   Robert Yuan
- An Inexpensive Gel Electrophoresis-Based Polymerase Chain Reaction Method for Quantifying mRNA Levels by William D. Bradford, Laty Cahoon, Sara R. Freel, Laura L. Mays Hoopes, and Todd T. Eckdahl
- Molecular and Cellular Biology
   Animations: Development and Impact on Student Learning
   by Phillip McClean, Christina Johnson,
   Roxanne Rogers, Lisa Daniels, John Reber, Brian M. Slator, Jeff Terpstra, and Alan White

#### **ANNOUNCEMENTS**

September 3–7, 2005, Sydney, Australia **15th International Society of Developmental Biologists Congress** 

## **Submit Your Manuscript**Online Manuscript Submission

- Instructions to Authors
- Top Ten Reasons to Publish in CBE

[pdf]

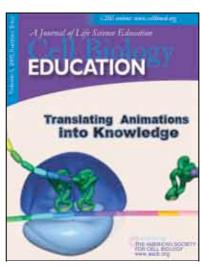
#### Other Information:

There are **6,450** registered users signed up to receive quarterly notification of new content.

Become a registered user.

#### **Order a Free CBE Poster**

#### On the Cover [Printable Cover]



The cover is an animated gif that highlights a few steps the of process of protein translation. The animation is a loop of images that shows three bringing tRNAs their amino acid

cargo to the ribosome that synthesizes the growing protein. The article by McClean et al. in this issue of CBE describes the development of a collection of molecular and cellular biology animations and their positive impact on student learning.