



MOREHOUSE
COLLEGE

CUREs* Improve STEM Student Success

*Course-based Undergraduate
Research Experience

Lawrence Blumer
Department of Biology
April 27, 2021

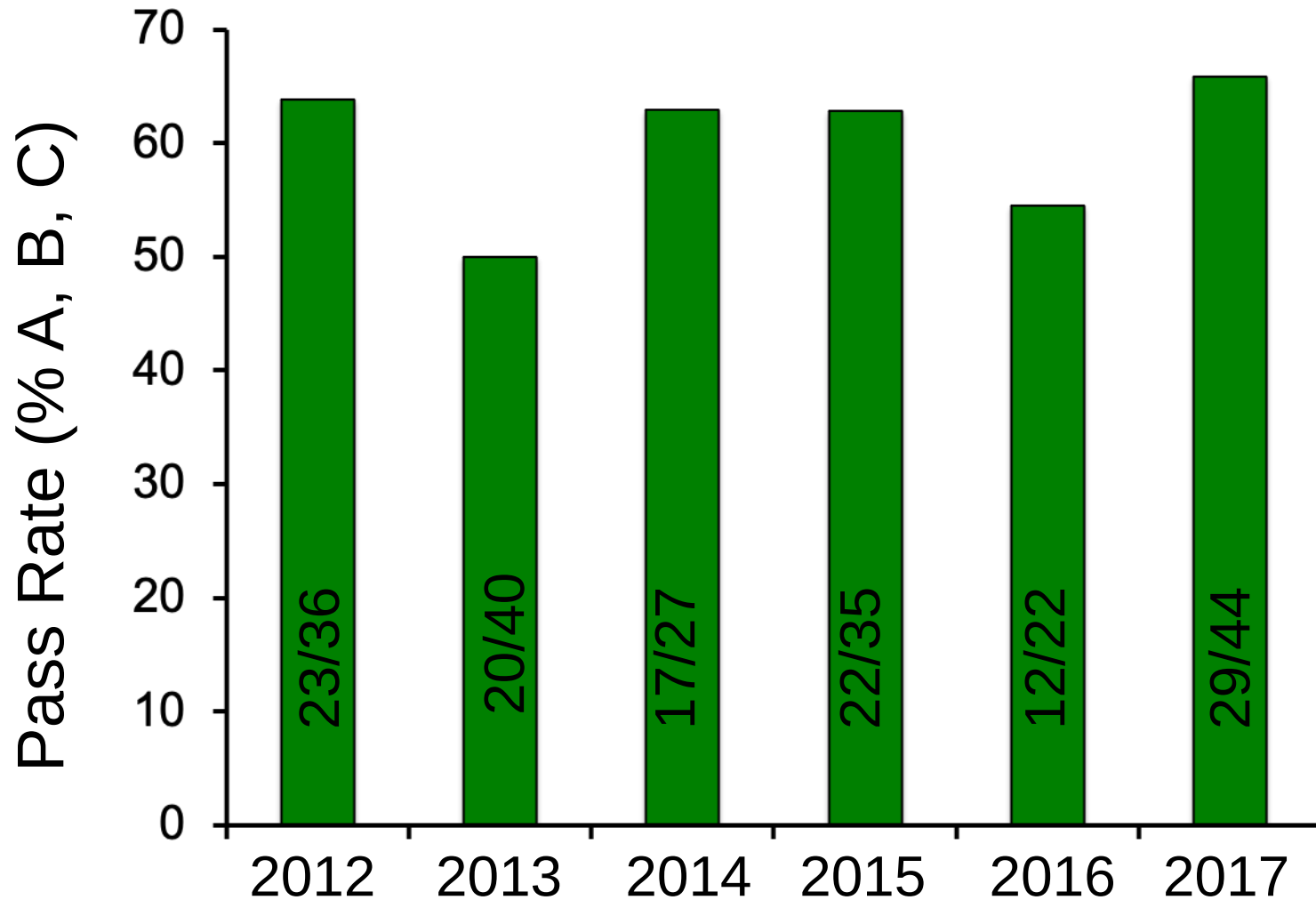
Facilitate
Student Success in STEM
with Course-Based
Undergraduate Research

We learn best by
doing

not by passive
listening or viewing

General Biology Pass Rates

60.3% Fall Semesters 2012-2017



Experiment: Focus on students
wanting Major in Biology not well
prepared

CURE Experiment 2011 - 2017

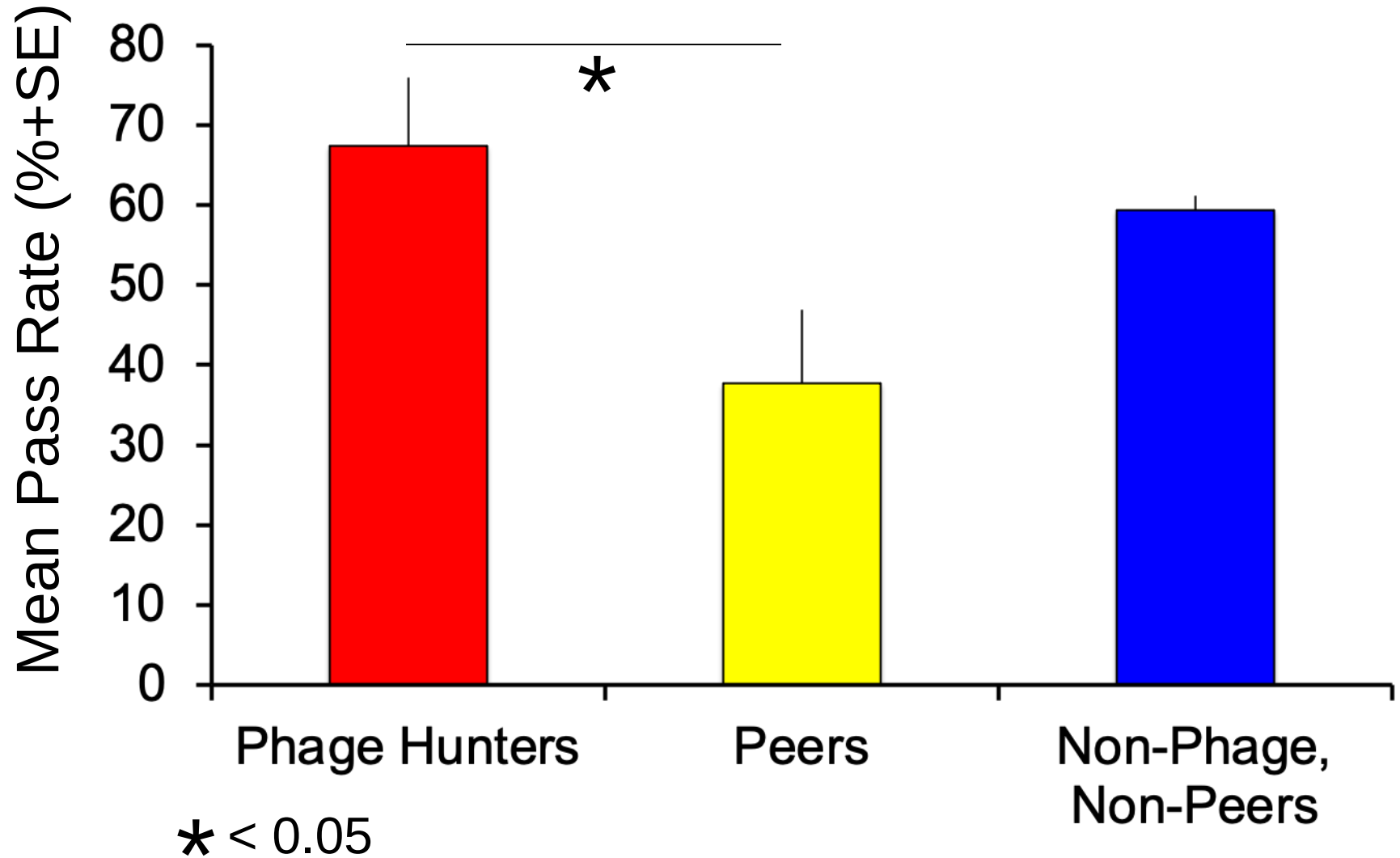
Offer a research immersion course for Freshmen
Phage Hunters CURE in Fall

Only invite “unprepared” student

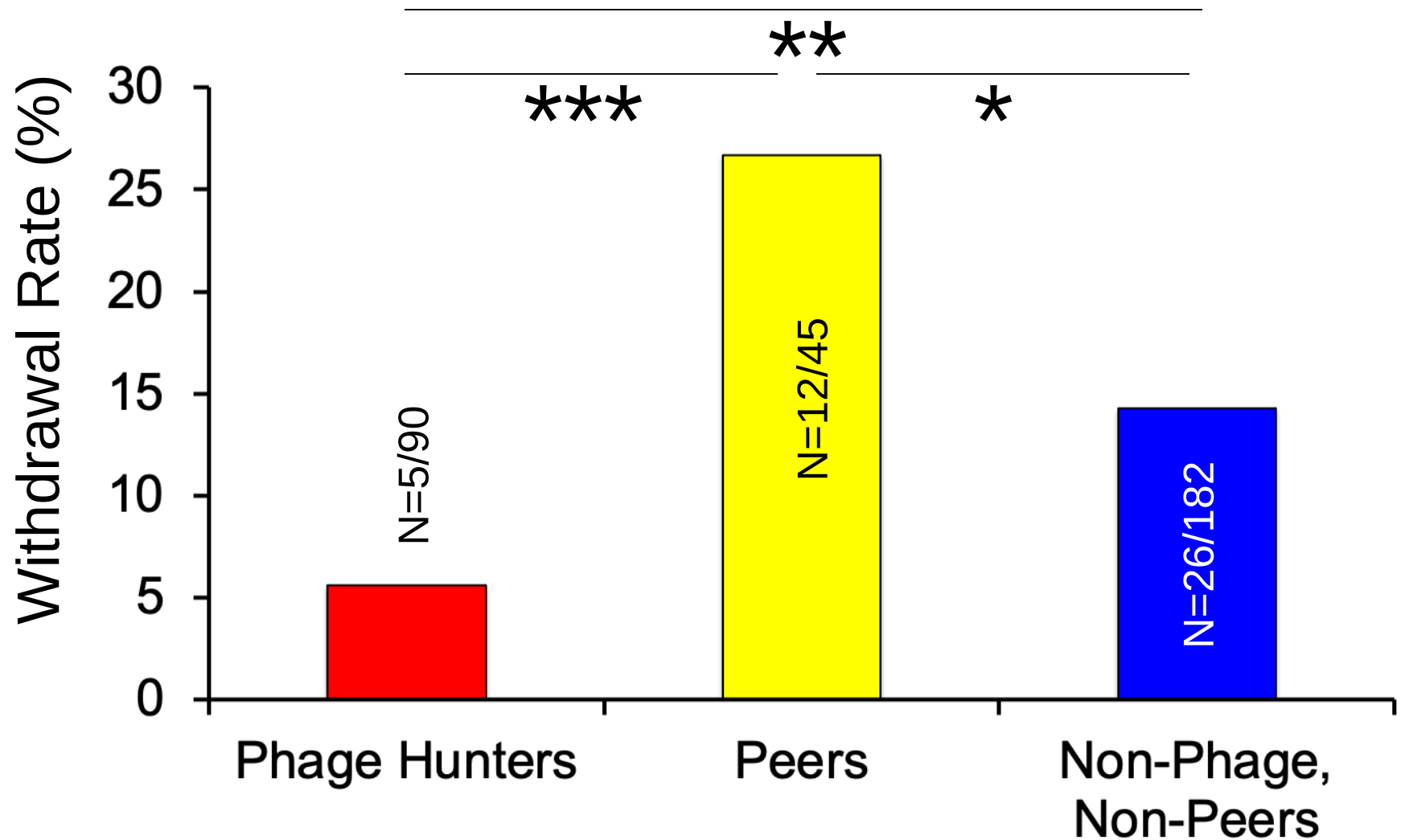
Students not permitted in General Biology

Phage Hunters take General Biology lecture in
Spring and continue with Phage Hunters laboratory

Biology 111 Average Pass Rates S2012-2017



Biology 111 Withdrawal Rates S2012-2017



*** = 0.0009 ** = 0.023 * = 0.042

**How you teach
matters as much as
what you teach**

Present Efforts

**CURE Laboratories for all
Biology Freshmen**

HHMI Phage Hunters:

www.seaphages.org

Bean Beetle Microbiome Project:

www.beanbeetles.org