

Integrating Concepts in Biology Textbook Increases Learning: Assessment Triangulation Using Concept Inventory, Card Sorting, and MCAT Instruments, Followed by Longitudinal Tracking

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ABSTRACT

The purpose of this study was to examine the educational impact of an intervention, the inquiry-focused textbook *Integrating Concepts in Biology* (ICB), when used in a yearlong introductory biology course sequence. Student learning was evaluated using three published instruments: 1) The Biology Concept Inventory probed depth of student mastery of fundamental concepts in organismal and cellular topics when confronting misconceptions as distractors. ICB students had higher gains in all six topic categories (+43% vs. peers overall, $p < 0.001$). 2) The Biology Card Sorting Task assessed whether students organized biological ideas more superficially, as novices do, or based on deeper concepts, like experts. The frequency with which ICB students connected deep-concept pairs, or triplets, was similar to peers; but deep understanding of structure/function was much higher (for pairs: 77% vs. 25%, $p < 0.001$). 3) A content-focused Medical College Admission Test (MCAT) posttest compared ICB student content knowledge with that of peers from 15 prior years. Historically, MCAT performance for each semester ranged from 53% to 64%; the ICB cohort scored 62%, in the top quintile. Longitudinal tracking in five upper-level science courses the following year found ICB students outperformed peers in physiology (85% vs. 80%, $p < 0.001$).

INTRODUCTION

In most settings, biologists can no longer limit themselves to pursuing only molecular or organismal methods, nor can they avoid using quantitative and interdisciplinary approaches (National Research Council [NRC], 2003; Association of American Medical Colleges and the Howard Hughes Medical Institute [AAMC-HHMI], 2009; American Association for the Advancement of Science [AAAS], 2011; Waldrop and Miller, 2015). For example, to understand large, rapidly changing ecosystems, biologists must be able to study long-term ecological research plots in the alpine tundra; read DNA gels; and use modern mathematical, statistical, computational, and technological tools. As a result, biology instruction and scholarly instruction at all levels must keep pace with these changes in the practice of research (AAAS, 2011; NRC, 2012, 2014; Next Generation Science Standards Lead States, 2013). A new textbook, *Integrating Concepts in Biology* (ICB; Campbell et al., 2014), was designed to confront this “new normal” and enable instructors to engage students in regular practice of scientific inquiry inside the lecture room (Barsoum et al., 2013; Campbell et al., 2014; Wagner et al., 2015).

The purpose of this research study was to look for evidence of impact of a single intervention, the ICB textbook, when adopted for a yearlong introductory biology

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