TACSM Abstract

Broadening the Impact of Course-Based Research Experiences: Integration of Clinically-Based Research into Undergraduate Kinesiology Education

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ABSTRACT

ed Research Experiences (CBREs) have demonstrated significant benefits in undergraduate cation across various disciplines. PURPOSE: This study integrates insights from Shaw JM et al. gation into engaging undergraduate kinesiology students in clini 7it from Jordan TC et al. and Brownell SE et al. to evaluate the nultidisciplin ear ent learning, skills, and perceptions o esearch. METHODS CB entific r BRE model into kinesiology, focusing or ical investigations relevant to human health and exercise science. This approach was alongside the phage discovery program by Jordan TC et al. and a high-enrollment CBRE's n scientific thinking by Brownell SE et al., using pre- and post-course assessments to measure changes in students' abilities, engagement, and perceptions. RESULTS: Findings from Shaw JM et al. indicate that clinically-based research within a kinesiology curriculum significantly enhances students clinical skills, understanding of research methodologies, and ability to apply scientific knowledge to realworld health scenarios. Similar to the outcomes reported in the phage discovery and high-enrollment CBRE studies, students demonstrated increased engagement, improved scientific literacy, and a stronger inclination towards pursuing further research or careers in science. CONCLUSION: The integration of CBREs across diverse scientific fields, including the novel application to clinically-based kinesiology research, underscores the versatility and effectiveness of this educational approach. CBREs not only enhance undergraduate education by improving scientific skills and literacy but also by fostering a deeper connection to the real-world applications of science, thereby supporting the development of a well-prepared and motivated workforce for the future of scientific research and healthcare.