

**Short Communication**

Training the Next Generation: A Generative AI-enhanced Framework for Teaching Bioinformatics to Life Science Students with Relevance to Cardiovascular Innovation

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Abstract

Bioinformatics is increasingly essential for life science students preparing for careers in biomedical research, biotech undergraduate programs lack accessible entry points for teaching computational biology. This short communication present integrates Python and generative AI tools to introduce bioinformatics in a life sciences curriculum. Designed for instructors this approach emphasizes hands-on learning and interdisciplinary relevance. Our experience shows that generative AI can be faculty and support scalable instruction in computational methods and data-centered biological exploration.