PBL + Labs in Genetics

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Recommended Citation
PBL + Labs in Genetics

“For enhancing student learning & engagement in undergraduate genetics through problem-based learning with integrated laboratories”

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PBL + Integrated Labs

A hybrid problem-based learning (PBL) approach was applied as a learning strategy in BMED11-207 Medical & Molecular Genetics.

Clinical cases provide a framework for students to actively learn about the topic as they work through the problem.
The laboratory component enables students to test their hypotheses, providing further real-life context.

Student Survey

Strongly agree that the PBL case approach “enhances their understanding compared to lecture based questions”

Strongly agree that the PBL case approach “teaches essential critical thinking skills”

Strongly agree that the PBL case approach “provides opportunities for students to work in cooperative groups & collaborate effectively”

eTEVAL Scores

Students showed high satisfaction with educator effectiveness & subject quality

Average:
No. students = 49
Response rate = 91%

Educator
Subject

3.75 4.00 4.25 4.50 4.75 5.00

Student Feedback

“The experiments & lab methods were great & helped stimulate learning”

“Very informative & skill building. Generated team work & innovative thinking skills”

“PBLs have been the most effective learning tool & has taught me to think for myself more”

“Classes were very interesting & productive. I was able to understand the content more clearly”

“PBLs were interactive & allowed for easier learning of general concepts”

2014 OLT Citation for Outstanding Contribution to Student Learning