Integrating Computer Vision through Medical Imaging in a High School Biotechnology Class

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Where it fits

Before



Preceeding Unit

Cancer and cell signaling



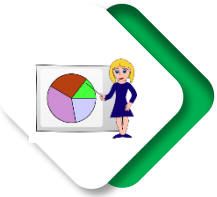
Computer Vision

- Introduction
- Crowd Counting
- Region Growing
- 3D Slicer
- Case Studies



Genetic Expression

- Epigenetics & Gene Expression
- Microarrays
- Edvotek Experiment



Student Presentations

- Case Study
- Career
- Technology
- Gene

After



Subsequent

Gene therapy, clinical trials

Before



Preceeding Unit

Cancer and cell signaling

Where it fits

Goal #1: To introduce students to the field of computer vision with an emphasis on its applications for personalized medicine.

Goal #2: To emphasize that computer vision is an important tool among many that researchers and doctors have, but should not (like anything else in matters of importance) stand alone.



- Case Study
- Career
- Technology
- Gene

After



Subsequent

Gene therapy, clinical trials

Many Thanks



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