Creation of Inclusive, Student-Centric, Open Source Pathology textbook with Accompanying Instructor and Student Study Resources

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Objectives

We are creating and including sets of interactive The project is an ambitious one, undertaken in student resources, such as: engaging multimodal collaboration with UBCV and BCIT, starting in May case studies, practice Q&A with embedded 2022 to create the first-ever set of Open rotatable 3D images, new medical illustrations, Education Resources (OER) for Pathophysiology. tutorial style video clips, coupled with the It is being designed for and by students and inclusion of real pathological specimens (stories & imagery). All of these aspects are designed to instructors of Health Care Professional Programs. provide additional relevancy to health care topics Pathophysiology is a core course required by and encourage student curiousity, reflection and multiple programs (including Nursing and mastery of each disease and disorder. Each Medicine) at every institute worldwide. Together activity is equipped with auto-feedback & the OER Resources we are creating are being marking and can be completed in a "choose your organized in a BCCampus Pressbook. This free own adventure" style format to fit the needs of Pressbook is an e-textbook covering basic human each student, course, and instructor. anatomy and physiology, as well as diseases and d) Knowledge Spotlights: disorders that are most common in Canada. In these sections, we are writing paragraphs that Additionally, we are including the following highlight research contributions to this field by features.

Features:

a) Ethnicity, Diversity, Inclusivity (EDI):

This OER resource includes an EDI guide to facilitate and improve both instruction and patient care, using more appropriate and respectful terms regarding biological sex gender, and ethnicity instead of terms that are gender-binary or raciallybased. This provides a much-needed update to current publisher-produced textbooks.

b) Instructor Resources:

We are designing sets of instructor-friendly lesson plans and ideas for demos and activities to support student active learning. Each set has associated learning outcomes (LOs) listed so that instructors can pick and choose which topics and sections for their class based on LOs, as well as report these LOs to their institute or other shareholders if required.



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Partners:

¹Biology, IKB Faculty of Science, UBCO, ²School of Computing Academic Health Sciences, Dept. of Basic Health Sciences, BCIT (and Affiliate Faculty, ³Dept. of Pathology and Laboratory Medical Sciences, ⁴Faculty of Medicine, UBCV), ⁵Undergraduate Student Assistant, UBCO.

c) Student Resources:

traditionally marginalized peoples, including overlooked Canadians, to inspire students and increase exposure to hidden role models in the field. The idea is to raise student awareness with regards to IBPOC, and LGBTQS+ contributions as well as to increase exposure to, and encourage more diversity in STEM.



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Progress

This project started as a pilot project at UBCV and BCIT two years ago. So far we have created over 100 pages of content. This year, the UBCO students under my supervision have contributed by generating over 10 Knowledge and Diversity Spotlights, in addition to a set of student and instructor EDI Language guidelines. As well under the mentorship of STAR and UBC Studios Okanagan students have played key roles in creating both 2D and 3D rotatable images. Since January 2023, I've been able to generate 19 interactive student activities with the help of UBCO students. User participation in these activities is shown in Figure 2.

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(DHPLC)

Ryan Mandau **UBC Survive and Thrive** Applied Research (STAR)

Current Month Usage

Only the most recent Visitor Location data is available, but it has remained fairly consistent over the last 4 months (Figure 3).

Phillipines Malaysia Nigeria 🛛







Figure 3. Number of Visits and Views (April 1-19, 2023) to our new OER Pathology Pressbook.

Reference / Bibliography

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