

Introducing pathology to undergrad students and public by building a multimedia Open Ed Pressbook for David Hardwick Pathology Learning Centre (DHPLC)

The total funding available for your project through fiscal year 2022/23: **\$25,000**

This project will continue to build a multimedia OER pilot project on pathology* with the goal of creating the first open pathology multimedia textbook. Currently, there are no open textbooks in pathology, despite pathology being introduced in all undergraduate biology curricula and being a required course in all health care fields. This OER also aims to make public, the material available at the David Hardwick Pathology Learning Centre (DHPLC), fulfilling its mission statement: “promotes the visual understanding of human diseases” to everyone.

The resulting OER will be used in courses at UBCV, UBCO and BCIT and can be adapted for undergraduate biology/cellular & physiological sciences, and professional health care programs. This OER will be beneficial for instructors who do not have access to human pathology specimens, as an alternative to a field trip or gross anatomy lab, or to highlight the relevancy of their specific field. Instructors can build off this resource and add their own program-specific addendum.

This Pathology resource contains chapters of multi-media lessons (with assessment pieces) on pathology aimed primarily for undergraduate health science students or professional health students needing a brief review. Each disease is discussed at the level of tissue (histopathology) and organ structure (gross pathology) using actual human tissue and organs from the DHPLC. Each lesson includes the causes of common signs and symptoms. Videolessons of DHPLC specimens and histological analysis are included for each pathology. Our current grant is in conjunction with a concurrent application at UBC-O for filming and photogrammetry of select DHPLC specimens and teaching models.

To emphasize the human side of pathology, video interviews with health care professionals are included in each chapter to discuss each aspect of the disease from their scope of care. Each chapter concludes with a narrative case study to exemplify the patient’s journey with this disease.

Students assistants will be hired for 2022/2023 to help build this OER, including creating narratives of a patient’s health journey with a BIPOC perspective, and collect valuable feedback from the perspective of an undergraduate biology/health sciences student.

- Previous funding by both UBC Open Education RIG and BCIT Open Education grant has allowed us to begin to develop and pilot the pilot OER *Pathology: from the tissue level to clinical manifestations and inter-professional care* by Jennifer Kong & Helen Dyck can be accessed at <https://pressbooks.bccampus.ca/pathology/> password “DHPLC”