BCHM 421/422 – 2020/2021

**Project #4 Outline:** Mammography is actually relatively insensitive, only detecting tumours in the range of 15-19 mm when the risk of the disease having spread is high. We have developed a methylation based blood test that is superior to mammography in detecting very small tumours, theoretically less than 5 mm, when spread is much less likely. Early detection is a key factor in improving outcomes in breast cancer.

**Supervisor:** Christopher Mueller

**Project Title:** A blood test for Breast Cancer, replacing mammography.

**Project Goals:** Advance the development of this test by analyzing patient samples from the community and optimizing aspects of the test.

**Experimental Approaches:** Circulating tumour DNA, targeted PCR, Next Generation Sequencing