

# PMGCG 806 : Epigenomics and Functional Genomics in Health and Disease

This course examines the importance of gene expression alterations on the health of individuals and populations. Topics include the mechanisms controlling gene expression, such as epigenetics, variation, and three-dimensional nuclear structure, and how these changes contribute to complex disease. Students also examine how advances in these areas can be used to improve health. Upon successful completion of this course, students will be able to demonstrate knowledge of the role that gene expression changes play in health and disease, as well as being able to describe the factors that influence gene expression.

**College**

Post Graduate Certificate in Precision Medicine

**Credits** 1.0

**Prerequisites**

PMGCG 501: Introduction to Genetics and Genomics

PHIDG 1502: Integrated Sequence 2