COURSE No. and TITLE:  GBSC 718, Epigenetics

SEMESTER OFFERRED:  Spring semester, 2020 (April 6-May 1, 2020)

LOCATION:  637 Kaul Building

CONTACT HOURS:  8:00-10:00 AM

CREDIT HOURS:  2 credit hours

COURSE DIRECTORS:  Runhua (Runa) Liu, MD & PhD  Lizhong Wang, PhD
                    Associate Professor  Associate Professor
                    Office: 705 Kaul Building  Office: 740A Kaul Building
                    Phone: 934-7308  Phone: 934-5948
                    Email: runhua@uab.edu  Email: lwang12@uab.edu

OFFICE HOURS:  9:00AM-5:00PM

COURSE DESCRIPTION:  This course introduces the fundamentals of epigenetic controls and how epigenetic regulation is being investigated and utilized in basic and translational research. Specifically, students learn of changes in gene expression or cellular phenotype caused by mechanisms other than changes in the underlying DNA sequence. Students also gain an understanding of the differences between genetic and epigenetic influences on gene expression; epigenetic mechanisms that regulate gene expression; how epigenetic modifications are propagated; and the phenotypic consequences of normal versus abnormal epigenetic regulation in disease.
COURSE NUMBER and TITLE: GBS720 – Genomic Structure and Function

COURSE DESCRIPTION: This course will cover the general concepts of genomics including gene structure and function, genomic technologies and their applications, comparative genomics and cancer genomics.

SEMESTER(s) OFFERED: Spring 2020

LOCATION: Shelby 1115

CLASS DATES and TIMES: Monday through Friday from 8:00 to 10:00 am (February 10th to March 6th 2020)

CREDIT HOURS: Two

COURSEMASTER: Michael R. Crowley, Ph.D.

Associate Professor
Department of Genetics, University of Alabama at Birmingham
Kaul Genetics Building, Room 420A
Phone: (205) 975 2013
E-mail: mcrowley@uab.edu
COURSE NUMBER and TITLE:  GBS724 - Principles of Human Genetics

COURSE DESCRIPTION:  This course will cover the general concepts of human genetics, including population genetics, dominant, recessive, X-linked, multifactorial, and mitochondrial inheritance and disease, as well as cytogenetics, chromosomal abnormalities, molecular genetics, and triplet repeat disorders.

SEMESTER OFFERED:  Spring 2020

LOCATION:  Shelby building, Room SHEL 105

CLASS DATES and TIMES:  Monday through Friday from 8:00 to 10:00 am (January 13th to February 7th 2020)

CREDIT HOURS:  Two

COURSEMASTER:  Fady Mikhail, MD, PhD
Professor, Department of Genetics
University of Alabama at Birmingham
Kaul Genetics Building, Room #314A
Phone: (205) 934 9588
E-mail: fmikhail@uab.edu