

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

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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, d

Course Syllabus

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) OFFERRED: Spring 2020

LOCATION: Shelby 1115

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

March 6th2020)

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 OFFERRED: 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

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