

UTHealth Neuroscience Research Center  
and  
UTHealth Graduate School of Biomedical Sciences

**Current Topics in the Neurobiology of Disease - GS14 1021**

**Epigenetics of Brain Disorders**

Directors: John H. Byrne, Ph.D. and Consuelo Walss-Bass, Ph.D.

***Course Description***

This course is an integrated approach to neurological diseases, which includes background information as well as the diagnosis, the treatment, and the biological mechanisms of the disease under study. The topic for fall 2018 is “Epigenetics of Brain Disorders”. This course focuses on understanding the mechanisms underlying epigenetic modifications, such as DNA methylation, miRNA’s, and histone modifications, and their role in development of brain disorders, including psychiatric disorders, neurological disorders, and different types of brain cancers. Presentations will review the latest findings from preclinical and human studies, detailing mechanisms by which epigenetic modifications modulate gene expression and ultimately can affect people's health and influence development of brain disorders. Aspects regarding modes of epigenetic heritability and influences on aging, including environmental factors that influence changes in epigenetic processes will also be discussed. This course is open to graduate students, medical students, residents and postdoctoral fellows.

***Lecture Time and Location***

*Mondays, 12:00 p.m. – 1:00 p.m.*

*McGovern Medical School at UTHealth in MSB 7.037*

***Course Requirements:***

Attendance

Completion of final essay (based on a course lecture, Postdoctoral fellows are exempt)

***Directors:***

**John H. Byrne, Ph.D.** - June and Virgil Waggoner Chair, Neurobiology & Anatomy

**Consuelo Walss-Bass, Ph.D.** – Associate Professor, Psychiatry and Behavioral Sciences

Email: [Consuelo.WalssBass@uth.tmc.edu](mailto:Consuelo.WalssBass@uth.tmc.edu)

***NRC Contact:***

Donna Wood - Email: [donna.wood@uth.tmc.edu](mailto:donna.wood@uth.tmc.edu) or phone: 713-500-5633

UTHealth Neuroscience Research Center  
**Current Topics in the Neurobiology of Disease**  
**Fall 2018 - GS14 1021**

**Epigenetics of Brain Disorders**

*Mondays 12:00 p.m. – 1:00 p.m., MSB 7.037*

*Open to graduate and medical students, postdoctoral fellows and residents.*

<b>Fall 2018</b>	<b>Speaker</b>
August 27	Consuelo Walss-Bass, Ph.D. - Associate Professor, Department of Psychiatry & Behavioral Sciences, McGovern Medical School at UTHealth; Director, Psychiatric Genetics Program; Director, The UTHealth Brain Collection For Research In Psychiatric Disorders; Co-Director, Translational Psychiatry Program
September 3	<i>Labor Day - No Class</i>
September 10	Sadhan Majumder, Ph.D. - Professor and Deputy Chair, Department of Genetics, Division of Basic Science Research, The University of Texas MD Anderson Cancer Center
September 17	Mohammad Belayat Hossain, Ph.D. - Instructor, Department of Neuro-Oncology - Research, Division of Cancer Medicine, The University of Texas MD Anderson Cancer Center
September 24	Guest Lecturer: Melanie A. Carless, Ph.D. - Associate Scientist, Genetics, Texas Biomedical Research Institute
October 1	Gabriel Fries, Ph.D. – Postdoctoral Fellow, Department of Psychiatry & Behavioral Sciences, McGovern Medical School at UTHealth
October 8	Zhongming Zhao, Ph.D., MS - professor at the School of Biomedical Informatics; Chair Professor for Precision Health; Director, Center for Precision Health
October 15	Sheng Zhang, Ph.D. - Assistant Professor, Center for Metabolic and Degenerative Diseases, UTHealth
October 22	Amit K. Srivastava, Ph.D. - Assistant Professor, Department of Pediatric Surgery, UTHealth
October 29	Myriam Fornage, Ph.D. - Professor, & The Laurence & Johanna Favrot Distinguished Professor in Cardiology, UTHealth School of Public Health
November 5	<i>No Class- SfN Conference</i>
November 12	Marcos Estecio, Ph.D. - Associate Professor, Dept. of Epigenetics and Molecular Carcinogenesis, Co-Director, MDACC Epigenome Profiling Core Facility
November 19	<i>Thanksgiving – No Class</i>
November 26	Robert Waterland, Ph.D. - Associate Professor, Pediatrics-Nutrition, Molecular and Human Genetics, Baylor College of Medicine; USDA/ARS Children's Nutrition Research Center Baylor College of Medicine
December 3	Jiaqian Wu, Ph.D. - Associate Professor, Department of Neurosurgery & Center for Stem Cell and Regenerative Medicine, UTHealth
December 10	Christophe Herman, Ph.D. - Associate Professor, Molecular and Human Genetics, Baylor College of Medicine
December 17	<i>No Class- Final Paper Due</i>