

Translational Neuroscience 2021

Director: Rodrigo Morales, PhD

MD Anderson Cancer Center UTHealth Graduate School of Biomedical Sciences – Neuroscience Program

Course description

The Translational Neuroscience Course is a multidisciplinary course that focuses in understanding the neurological diseases from basic and clinical approaches. We will explore different brain disorders including neurodegenerative diseases and psychiatric-behavioral disorders. During each session, a basic and a clinical expert in one of the disorders will partner to introduce the general concepts of the neuropathology, clinical signs, diagnosis, therapeutic strategies, and current research directions. The main goal of the course is to understand the interdependent roles of basic and clinical research in the common mission of improving neurological diseases, highlighting their interconnection and their dual feedback to translate the results from bench to bedside. The course is open to graduate and medical students, postdoctoral fellows and residents.

Meets

Summer semester. Mondays from 12.00 to 1.30 pm.

WebEx: <https://uthealth.webex.com/meet/rodrigo.moralesloyola>

1.5 hour sessions (45 min. basic, 45 min. clinical).

Evaluation / course requirements

Students are expected to read publications assigned by the speakers (if any) in advance. These publications will be related to the topic and the research the presenters will cover. The students will need to write a one- page-long research proposal related to their own current research, or from any topic discussed during this course. The goal of this assignment is to make the students aware about the potential translational component of their current research projects. Attendees will also be requested to provide a one paragraph comment after each session (no later than the Wednesday following the session). Students will be evaluated by attendance (20%), participation during the seminars (20%), timely submission of comments (10%) and the written proposal (50%).

Syllabus

Date	Topic/Title	Basic research speaker	Clinical research speaker
May-10	Addiction	Dr. Jin Yoon	Dr. Michael Weaver
May-17	Bipolar disorder	Dr. Gabriel Fries	Dr. Joao de Quevedo
May-24	Meningitis	Dr. Tatiana Barichello	Dr. Rodrigo Hasbun
June-7	Multiple Sclerosis	Dr. John Lincoln	Dr. William Lindsey
June-21	Depression	Dr. Giselli Scaini	Dr. Jair Soares
June-28	Aneurism	Dr. Zhen Xu	Dr. Spiros Blackburn
July-12	Parkinson's disease	Dr. Mohammad Shahnawaz	Dr. Mya Schiess
July-19	Stroke	Dr. Venugopal Venna	Dr. Bharti Manwani
July-26	Huntington's disease	Dr. Andrey Tsvetkov	Dr. Erin Furr-Stimming
Agust-2	Neurooncological diseases	Dr. Balveen Kaur	Dr. Jay-Jiguang Zhu
August-9	Alzheimer's disease	Dr. Rodrigo Morales	Dr. Paul Schulz