Translational Neuroscience 2019
Director: Ines Moreno-Gonzalez, PhD
Co-Director: Louise McCullough, MD, 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 experts 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. MMS 7.037.

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

Evaluation / course requirements
Students are expected to read publications assigned by the speakers in advance. These publications will be related to the topic and the research the presenter will cover. In addition, the students will need to write a one-page-long research proposal related to their own research. The goal of this assignment is to make the students aware about the potential translational component of their current research project. Students will be evaluated by attendance (25%), participation during the seminars (25%), and the written proposal (50%).

Syllabus

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic/Title</th>
<th>Basic research speaker</th>
<th>Clinical research speaker</th>
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<tbody>
<tr>
<td>May-20</td>
<td>Addiction</td>
<td>Dr. Jin Yoon</td>
<td>Dr. Michael Weaver</td>
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<tr>
<td>May-27</td>
<td>Cancelled (Memorial day)</td>
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<tr>
<td>June-3</td>
<td>Bipolar disorder</td>
<td>Dr. Gabriel Fries</td>
<td>Dr. Joao de Quevedo</td>
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<td>June-11</td>
<td>Aneurysm</td>
<td>Dr. Zhen Xu</td>
<td>Dr. Spiros Blackburn</td>
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<td>June-17</td>
<td>Neurooncological diseases</td>
<td>Dr. Balveen Kaur</td>
<td>Dr. Jay-Jiguang Zhu</td>
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<td>June-24</td>
<td>Schizophrenia</td>
<td>Dr. Consuelo Walss-Bass</td>
<td>Dr. Sudhakar Selvaraj</td>
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<tr>
<td>July-1</td>
<td>Depression</td>
<td>Dr. Giselli Scaini</td>
<td>Dr. Jair Soares</td>
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<td>July-8</td>
<td>Huntington’s disease</td>
<td>Dr. Andrey Tsvetkov</td>
<td>Dr. Erin Furr-Stimming</td>
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<tr>
<td>July-15</td>
<td>Stroke</td>
<td>Dr. Venugopal Venna</td>
<td>Dr. Bharti Manwani</td>
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<td>July-22</td>
<td>Multiple Sclerosis</td>
<td>Dr. John Lincoln</td>
<td>Dr. William Lindsey</td>
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<td>July-29</td>
<td>Alzheimer’s disease</td>
<td>Dr. Rodrigo Morales</td>
<td>Dr. Paul Schulz</td>
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<td>August-5</td>
<td>Meningitis</td>
<td>Dr. Tatiana Barichello</td>
<td>Dr. Rodrigo Hasbun</td>
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<td>August-12</td>
<td>Parkinson’s disease</td>
<td>Dr. Claudio Soto</td>
<td>Dr. Mya Schiess</td>
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