

IMPORTANT: This syllabus form should be submitted to OAA (gsbs_academic_affairs@uth.tmc.edu) a week before the start of each semester.

NOTE to STUDENTS: If you need any accommodations related to attending/enrolling in this course, please contact one of the Graduate School's 504 Coordinators, Cheryl Spitzenberger or Natalie Sirisaengtaksin. We ask that you notify GSBS in advance (preferably at least 3 days before the start of the semester) so we can make appropriate arrangements.

<p>Term and Year: Fall 2022</p> <p>Course Number and Course Title: GS14 1021:Current Topics in the Neurobiology of Disease</p> <p>Credit Hours: 1</p> <p>Meeting Location: McGovern Medical School</p> <p>WebEx/Zoom Link: https://uthealth.webex.com/uthealth/j.php?MTID=mbe8909975c0992f57bf16b8361cc337e</p> <p>Password: NOD22</p>	<p>Program Required Course: No</p> <p>Approval Code: No (If yes, the Course Director or the Course Designee will provide the approval code.)</p> <p>Audit Permitted: Yes</p> <p>Classes Begin: August 29, 2022</p> <p>Classes End: December 9, 2022</p> <p>Final Exam Week: Dec. 12-16, 2022</p>												
<p>Class Meeting Schedule</p>													
<table border="1"> <thead> <tr> <th>Day</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>Tuesday</td> <td>12:00 pm</td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	Day	Time	Tuesday	12:00 pm			<table border="1"> <thead> <tr> <th>Day</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>Tuesday</td> <td>12:00 pm</td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table>	Day	Time	Tuesday	12:00 pm		
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<p>Course Director Name and Degree: John Byrne, PhD Title: Professor, June & Virgil Waggoner Chair Department: Neurobiology and Anatomy Institution: UTH Email Address: John.H.Byrne@uth.tmc.edu Contact Number: 713-500-5602</p> <p>Course Co-Director/s: Name and Degree: Jordan Lake, MD, MSc Title: Associate Professor Department: Internal Medicine, Infectious Diseases Institution: UTH Email Address: Jordan.E.Lake@uth.tmc.edu</p>	<p>Instructor/s (see attached class schedule)</p> <ol style="list-style-type: none"> Name and Degree Institution: Email Address : Name and Degree Institution: Email Address : Name and Degree Institution: Email Address 												

Name and Degree: **Rodrigo Hasbun, MD, MPH**

Title: **Professor**

Department: **Internal Medicine, Infectious Diseases**

Institution: **UTH**

Email Address: Rodrigo.Hasbun@uth.tmc.edu

Name and Degree: **Joy Schmitz, PhD**

Title: **Louis A. Faillace, MD, Professor, Director,
Center for Neurobehavioral Research on Addictions**

Department: **Psychiatry and Behavioral Sciences**

Institution: **UTH**

Email Address: Joy.M.Schmitz@uth.tmc.edu

Course Description:

This course is an integrated approach to neurological diseases, which includes background information as well the diagnosis, the treatment, and the biological mechanisms of the diseases under study. The topic for Fall 2022 is “Neurobiology of HIV”. HIV infection is associated with neurological and cognitive difficulties. Antiretroviral drugs used to combat HIV have been shown to reduce neurocognitive dysfunction but numerous challenges remain. In addition to cognitive health, people living with HIV are vulnerable to psychosocial stressors, substance use disorders, and HIV-related stigma. This course will provide students with a broad understanding and appreciation of key topics related to the impact of HIV infection in the brain, specifically: (1) HIV-associated neurocognitive disorders; (2) biological therapies for HIV; and (3) the psychosocial impacts of HIV infection. Online lectures will be given by leading experts in the field from UTHHealth and other universities across the country.

Textbook/Supplemental Reading Materials (if any)

- when necessary directors may provide additional information for students.

Course Objective/s:

Upon successful completion of this course, students will gain a broad understanding and appreciation of key topics related to the impact of HIV infection in the brain, specifically: (1) HIV-associated neurocognitive disorders; (2) biological therapies for HIV; and (3) the psychosocial impacts of HIV infection.

Student responsibilities and expectations/Course Requirements:

- Attendance
- Completion of final essay based on a course lecture. (PostdoPostdoctoralws are exempt)

Grading System: Pass/Fail**Student Assessment and Grading Criteria :** *(May include the following:)*

Percentage	Description
Homework (%)	
Quiz (%)	
Presentation (%)	
Midterm Exams (%)	
Final Exam (20 %)	Completion of final essay based on a course lecture. (Postdoctorals fellows are exempt)
Workshop or Breakout-Session (%)	
Participation and/or Attendance (80 %)	

CLASS SCHEDULE – Fall 2022

Date	Duration (Hour(s) taught by lecturer)	Lecture Topic	Lecturer/s
Tuesday/ Aug. 30	1	Overview neurocognitive disorders in people living with HIV/AIDS	Rodrigo Hasbun, MD, MPH
Sept. 6	1	HIV 101	Scott Letendre, MD
Sept. 13	1	Viral Escape	Scott Letendre, MD
Sept. 20	1	CNS as an HIV reservoir	Serena S. Spudich, MD
Sept. 27	1	Neurocognitive Assessment	Steven Woods, PsyD
Oct. 4	1	HIV and Aging synergy on the brain with neuroimaging research	Beau M. Ances, MD, PhD
Oct. 11	1	TBA	
Oct. 18	1	Biotypes	Avindra Nath, MD
Oct. 25	1	HIV testing, adherence to antiretroviral therapy, and retention in HIV care	Thomas P. Giordano, MD, MPH
Nov. 1	1	HEROES program as it addresses HIV harm reduction and treatment services for persons who inject drugs	James R. Langabeer II, PhD
Nov. 8	1	Treatment strategies for substance use and HIV prevention among key populations	Glenn-Milo Santos, PhD, MPH
Nov. 15		No Lecture	
Nov. 22		No Lecture	
Nov. 29	1	Effect of cannabinoids on HIV and inflammation	Emeka Okafor, PhD, MPH
Dec. 6	1	Immune network dysregulation of the CNS with HIV persistence and OUD	Le Zhang, PhD
Dec. 13		No Lecture	

NOTE: Provide other class information as needed.