

**PHGY 459D1  
PHYSIOLOGY SEMINAR  
Course Schedule - Fall 2019**

***MONDAYS: 3:35pm - 5:25pm  
McIntyre Medical Building, Room 1019***

**Coordinators:**

**Dr. Alvin Shrier, Room 165 Bellini Bldg, 514-398-2272, [alvin.shrier@mcgill.ca](mailto:alvin.shrier@mcgill.ca)  
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<u>DATE</u>	<u>TOPIC</u>	<u>LECTURER</u>
Sept. 9	Introduction	Drs. A. Shrier/J. Hanrahan
Sept. 16, 23	Synaptic Competition	Dr. M. Cohen
Sept. 30	Grantsmanship Session	Drs. A. Shrier/J. Hanrahan
Oct. 7	Synaptic Competition	Dr. M. Cohen
<b><i>Oct. 14</i></b>	<b><i>THANKSGIVING – NO CLASSES</i></b>	
Oct. 21, 28	Ion Channels: Structure, Trafficking and Disease	Dr. G. Lukacs
Nov. 4, 11	Nuclear Receptors in Human Physiology	Dr. J. White
Nov. 18, 25, Dec. 2	Advanced Light Microscopy	Dr. C. Brown
<b><i>*Dec. 3</i></b>	<b><i>In-Class Test</i></b>	

***\*Tuesday, December 3<sup>rd</sup>, 2019 follows a "Monday" schedule***

**GUIDELINES**

Students are expected to read all papers thoroughly before coming to class. (The papers are available on *myCourses* about a week before each seminar). The overall approach is to go over, in a collegial manner, the objectives, methods, results and discussion points in these articles, in a round-table format. The underlying philosophy is that students can learn from each other, and help each other out with more difficult points.

Students will be selected at random to present a part of a paper to the class (hence, the requirement to read the entire paper carefully.) This presentation will not be a formal monologue. During this presentation, questions will be asked of the presenter, and observations will be made by the other students, or by the instructor. As mentioned above, this form of interaction is often the most valuable part of the course.

Weekly marks for participation will be based on:

- 1) Presentations of the sections of the paper given by the student (please, no transparencies, PowerPoint presentations, etc...) and on the student's observations and response to questions on that part of the paper.
- 2) Questions and observations made by the student during the presentations of other students.

## EVALUATION

Class Participation	50% (25% per semester)
In-class tests	20% (10% per semester)

### Research Grant (winter session)

Oral presentation (summary page of grant)	10%
Full length grant application	20%

### **Class Participation:**

The mark will be based upon overall contribution to the seminar sessions. This includes the presentation of material, critical assessment, general discussion and creative contribution.

### **In-Class Test:**

The class tests will consist of research oriented questions based upon material covered in the first and second semesters. They will be held at the end of the Fall & Winter sessions.

### **Research Grant:**

**Orientation:** In the Fall session, there will be an initial session with Dr. Hanrahan and Dr. Shrier to orient students on the writing of research grants.

**Summary Page and Oral Presentation:** A one-page written summary of the proposal is due by **4:00pm** on the first day of classes in the Winter semester (**Jan 6, 2020**). Oral presentations of the research proposals will take place during the first 3 weeks of the winter semester (**Jan 7, 14 and 21**). Students will be randomly scheduled for the presentation date. The oral presentation will involve a 20-30 minute elaboration of the summary page of the proposed grant application (background, hypothesis, specific aims, research plan (experiments and methods), expected results, potential pitfalls and alternative strategies).

**Research Grant Proposal:** The application should be completed as though it were being submitted to the Canadian Institutes for Health Research (CIHR), the main government health sciences-related funding agency. Details on how to prepare the research proposal will be given during the Grant Summary Session on Sept. 30.

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*In the event of extraordinary circumstances, beyond the University's control, the content and/or evaluation scheme in this course is subject to change.*

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