Course Syllabus - NEURO 590

Course Number:	NEURO 590
Course Name:	Current Topics in Sensory Neuroscience
Quarter:	WI
Year:	2017
Start Date:	01/05/2017
End Date:	03/24/2017
Credits:	3.0
Last Date To Add This Course:	01/13/2017
Last Date To Drop This Course:	01/13/2017
Last Date To Change Grading Option:	01/13/2017
Minimum Class Size:	6

Meeting Days and Times

Day	Start	End	Location	Description
Т	10:00 am	11:30 am	CA Campus	Dining Room
Т	10:00 am	11:30 am	CA Campus	Dorris Neuroscience Center (on 01/10, 01/24, 01/31, 02/07, 02/28, and 03/14)
TH	10:00 am	11:30 am	CA Campus	Dining Room

Course Managers

First					
ame Name	Department	Mail Code	Phone	Email	Organization Name (non-TSRI personnel)
outian Ardem	Department of Molecular and Cellular Neuroscience	DNC- 210	(858) 784- 9879	ardem@scripps.edu	
Hollis	Department of Molecular and Cellular Neuroscience	DNC- 216	(858) 784- 2220	cline@scripps.edu	
Angela Marie	Department of Molecular and Cellular Neuroscience	DNC- 202	(858) 784- 9856	aglenn@scripps.edu	
Cheryl	Department of Molecular and Cellular Neuroscience	MEM- 215	(858) 784- 9465	cnegus@scripps.edu	
	utian Ardem Hollis Angela Marie	utian Ardem Department of Molecular and Cellular Neuroscience Hollis Department of Molecular and Cellular Neuroscience Angela Department of Molecular and Cellular Neuroscience Cheryl Department of Molecular and Cellular Neuroscience	utian Ardem Department of Molecular and Cellular Neuroscience 210 Hollis Department of Molecular and Cellular Neuroscience 216 Angela Department of Molecular and Cellular DNC-Marie Neuroscience 202 Cheryl Department of Molecular and Cellular MEM-	utian Ardem Department of Molecular and Cellular Neuroscience Department of Molecular and Cellular Neuroscience Department of Molecular and Cellular DNC- (858) 784- 210 9879 Hollis Department of Molecular and Cellular DNC- (858) 784- 216 2220 Angela Department of Molecular and Cellular DNC- (858) 784- Neuroscience Department of Molecular and Cellular MEM- (858) 784- 202 9856	utian Ardem Department of Molecular and Cellular Neuroscience Divided Partment of Molecular and Cellular Neuroscience Department of Molecular and Cellular Neuroscience Department of Molecular and Cellular Neuroscience Divided Partment of Molecular and Cellular Divided Partment Of Mo

Course Description

This course will provide multifaceted training in sensory system neuroscience. It will be focused around visiting speakers in the Dorris Neuroscience lecture series. Students will read and discuss background material pertaining to the speaker's topic, attend the seminar and prepare a News and Views commentary on the topic. The course will expose students to top speakers in the field and provide them with the knowledge and critical thinking tools to understand and evaluate state of the art neuroscience presentations on current topics in Sensory Neuroscience. Some of the speakers for the upcoming 2016-2017 DNC seminar series include David Julius, Bob Data, Larry Zipursky, Loren Frank, Greg Scherrer, Robert Malenka and Leslie Vosshall.

Background Preparation (Prerequisites)

Texts and Journal References

Туре	Title	Author	Date	ISBN/ISSN
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Course Learning Outcomes

By the end of this course, students will be able to:

- 1. Understand and discuss current topics in Sensory Systems Neuroscience
- 2. Analyze and critique papers on sensory systems neuroscience.
- 3. Understand and critique lecture presentations in sensory systems neuroscience
- 4. Write and defend a succinct commentary on a current paper in sensory systems research

Course Requirements and Assignments

Other Information

The course is structured around the guest speaker series. In the week before the outside speaker, students should read the speaker's papers. 1 student gives a presentation of background and presents a classic paper in the topic area. The following week, students attend the seminar lecture and hand in a commentary (2-3pg) by the end of the week.

Attendence Statement

Students are expected to attend all classes. Students who are unable to attend class must seek permission for an excused absence from the course director or teaching assistant. Unapproved absences or late attendance for three or more classes may result in a lower grade or an "incomplete" for the course. If a student has to miss a class, he or she should arrange to get notes from a fellow student and is strongly encouraged to meet with the teaching assistant to obtain the missed material. Missed extra-credit quizzes will not be available for re-taking.

Scientific and Professional Ethics

The work you do in this course must be your own. Feel free to build on, react to, criticize, and analyze the ideas of others but, when you do, make it known whose ideas you are working with. You must explicitly acknowledge when your work builds on someone else's ideas, including ideas of classmates, professors, and authors you read. If you ever have questions about drawing the line between others' work and your own, ask the course professor who will give you clear guidance. Exams must be completed independently. Any collaboration on answers to exams, unless expressly permitted, may result in an automatic failing grade and possible expulsion from the Graduate Program.

Course Grading Statement

Students will be graded based on presentations and commentaries.

Letter Grade Descriptions

Letter Grade	Grade Point	Description	Learning Outcome
Α	4.00	Outstanding achievement. Student performance demonstrates full command of the course subject matter and evinces a high level of originality and/or creativity that far surpasses course expectations.	
A-	3.67	Excellent achievement. Student performance demonstrates thorough knowledge of the course subject matter and exceeds course expectations by completing all requirements in a superior manner.	
B+	3.33	Very good work. Student performance demonstrates above-average comprehension of the course subject matter and exceeds course expectations on all tasks as defined in the course syllabus. There is notable insight and originality.	
В	3.00	Satisfactory work. Student performance meets designated course expectations and demonstrates understanding of the course subject matter at an acceptable level.	
B-	2.67	Marginal work. Student performance demonstrates incomplete understanding of course subject matter. There is limited perception and originality.	
C+	2.33	Unsatisfactory work. Student performance demonstrates incomplete and inadequate understanding of course subject matter. There is severely limited or no perception or originality. Course will not count toward degree.	
С	2.00	Unsatisfactory work. Student performance demonstrates incomplete and inadequate understanding of course subject matter. There is severely limited or no perception or originality. Course will not count toward degree.	
Р	0.00	Satisfactory work. Student performance demonstrated complete and adequate understanding of course subject matter. Course will count toward degree.	
F	0.00	Unacceptable work/Failure. Student performance is unacceptably low level of knowledge and understanding of course subject matter. Course will not count toward degree. Student may continue in program only with permission of the Dean.	
I	0.00	Incomplete is assigned when work is of passing quality but is incomplete for a pre-approved reason. Once an incomplete grade is assigned, it remains on student's permanent record until a grade is awarded.	
W	0.00	Withdrew from the course with Dean's permission beyond the second week of the term.	

- All courses will be recorded and maintained in the student's permanent academic record; only courses that apply towards the degree will appear on the academic transcript. Non-credit or audited courses will not appear on the transcript.
- 4 core courses taken for a letter grade (pass = A or B for a core course)
- 2 elective courses taken pass/fail (pass = A, B, C for an elective)
- Because students are encouraged to take electives outside their area of expertise, a "C" letter grade is passing.
- Grading will be based on general attendance/participation, student presentations of the classic and contemporary publications, and

Course Schedule

01/05/2017 L	Lecture		Last Name	First Name	Presenter Department	Presenter Mail	Presenter Phone	Presenter Email	Name (non- TSRI personnel)
			Patapoutian	Ardem	Department of Molecular and Cellular Neuroscience	DNC-210	(858) 784- 9879	ardem@scripps.edu	,
			Cline	Hollis	Department of Molecular and Cellular Neuroscience	DNC-216	(858) 784- 2220	cline@scripps.edu	
01/10/2017 L	Lecture	DNC Lecture Series	Julius	David				djulius@ucsf.edu	University of California, San Francisco
01/12/2017 L	Lecture		Patapoutian	Ardem	Department of Molecular and Cellular Neuroscience	DNC-210	(858) 784- 9879	ardem@scripps.edu	
			Cline	Hollis	Department of Molecular and Cellular Neuroscience	DNC-216	(858) 784- 2220	cline@scripps.edu	
01/17/2017 L	Lecture		Patapoutian	Ardem	Department of Molecular and Cellular Neuroscience	DNC-210	(858) 784- 9879	ardem@scripps.edu	
			Cline	Hollis	Department of Molecular and Cellular Neuroscience	DNC-216	(858) 784- 2220	cline@scripps.edu	
01/19/2017 L	Lecture		Patapoutian	Ardem	Department of Molecular and Cellular Neuroscience	DNC-210	(858) 784- 9879	ardem@scripps.edu	
			Cline	Hollis	Department of Molecular and Cellular Neuroscience	DNC-216	(858) 784- 2220	cline@scripps.edu	
01/24/2017 L	Lecture	DNC Lecture Series	Martin- Fardon	Remi	Department of Molecular and Cellular Neuroscience	SP30- 2003	(858) 784- 7154	rmartinf@scripps.edu	
01/26/2017 L	Lecture		Patapoutian	Ardem	Department of Molecular and Cellular Neuroscience	DNC-210	(858) 784- 9879	ardem@scripps.edu	
			Cline	Hollis	Department of Molecular and Cellular Neuroscience	DNC-216	(858) 784- 2220	cline@scripps.edu	
01/31/2017 L	Lecture	DNC Lecture Series: Coupling sensation to action in the olfactory system	Datta	Sandeep				sdatta@harvard.edu	Harvard Medical School
02/02/2017 L	Lecture		Patapoutian	Ardem	Department of Molecular and Cellular Neuroscience	DNC-210	(858) 784- 9879	ardem@scripps.edu	
			Cline	Hollis	Department of Molecular and Cellular Neuroscience	DNC-216	(858) 784- 2220	cline@scripps.edu	
02/07/2017 L	Lecture	DNC Lecture Series: Neural Circuits and molecular mechanisms for pain perception and opoid analgesia	Scherrer	Greg				gscherrer@standford.edu	Stanford School of Medicine

02/09/2017	Lecture		Patapoutian	Ardem	Department of Molecular and Cellular Neuroscience	DNC-210	(858) 784- 9879	ardem@scripps.edu	
			Cline	Hollis	Department of Molecular and Cellular Neuroscience	DNC-216	(858) 784- 2220	cline@scripps.edu	
02/14/2017	Lecture		Patapoutian	Ardem	Department of Molecular and Cellular Neuroscience	DNC-210	(858) 784- 9879	ardem@scripps.edu	
			Cline	Hollis	Department of Molecular and Cellular Neuroscience	DNC-216	(858) 784- 2220	cline@scripps.edu	
02/16/2017	Lecture		Patapoutian	Ardem	Department of Molecular and Cellular Neuroscience	DNC-210	(858) 784- 9879	ardem@scripps.edu	
			Cline	Hollis	Department of Molecular and Cellular Neuroscience	DNC-216	(858) 784- 2220	cline@scripps.edu	
02/21/2017	Lecture		Patapoutian	Ardem	Department of Molecular and Cellular Neuroscience	DNC-210	(858) 784- 9879	ardem@scripps.edu	
			Cline	Hollis	Department of Molecular and Cellular Neuroscience	DNC-216	(858) 784- 2220	cline@scripps.edu	
02/23/2017	Lecture		Patapoutian	Ardem	Department of Molecular and Cellular Neuroscience	DNC-210	(858) 784- 9879	ardem@scripps.edu	
			Cline	Hollis	Department of Molecular and Cellular Neuroscience	DNC-216	(858) 784- 2220	cline@scripps.edu	
02/28/2017	Lecture	DNC Lecture Series	Zipurski	Larry				lzipurski@mednet.ucla.edu	University of California, Los Angeles
03/02/2017	Lecture		Patapoutian	Ardem	Department of Molecular and Cellular Neuroscience	DNC-210	(858) 784- 9879	ardem@scripps.edu	
			Cline	Hollis	Department of Molecular and Cellular Neuroscience	DNC-216	(858) 784- 2220	cline@scripps.edu	
03/07/2017	Lecture		Patapoutian	Ardem	Department of Molecular and Cellular Neuroscience	DNC-210	(858) 784- 9879	ardem@scripps.edu	
			Cline	Hollis	Department of Molecular and Cellular Neuroscience	DNC-216	(858) 784- 2220	cline@scripps.edu	
03/09/2017	Lecture		Patapoutian	Ardem	Department of Molecular and Cellular Neuroscience	DNC-210	(858) 784- 9879	ardem@scripps.edu	
			Cline	Hollis	Department of Molecular and Cellular Neuroscience	DNC-216	(858) 784- 2220	cline@scripps.edu	
03/14/2017	Lecture	DNC Lecture Series: Neural substrates of memories and decisions	Frank	Loren				lfrank@ucsf.edu	University of California, San Francisco
03/16/2017	Lecture		Patapoutian	Ardem	Department of Molecular and Cellular Neuroscience	DNC-210	(858) 784- 9879	ardem@scripps.edu	