

Neurobiology of Hearing 2012

MEDS 5377

University of Connecticut Health Center

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DAY	DATE	TOPIC	LECTURER
Week 1			
MON	5/21/2012	Course Introduction	Oliver
		Auditory pathway overview	Malmierca
TUES	5/22/2012	Sound and Cochlear Function	Paul Fuchs
		Hair cell mechanotransduction	Paul Fuchs
WED	5/23/2012	Afferent synaptic signaling	Paul Fuchs
		Afferent synaptic signaling	Paul Fuchs
THURS	5/24/2012	Neuroanatomical Methods1 ; part 2 ; part 3 ; part 4	Saldana
		Physiology Methods	Oliver
FRI	5/25/2012	Spanish in Morning, No Neuro Class	
SAT	5/26/2012		
SUN	5/27/2012	Week 2	
MON	5/28/2012	Acousticomotor reflexes	Lopez
		Eight nerve, root nucleus	Lopez
TUES	5/29/2012	From the auditory nerve to the inferior colliculus: the brainstem auditory pathways – part 1 (same file for each lecture) – Part 1+2 printer friendly file	Nell Cant
		The brainstem auditory pathway – part 1	Nell Cant
Paper 1 due			
WED	5/30/2012	The brainstem auditory pathways – part 2	Nell Cant
		The brainstem auditory pathways – part 2	Nell Cant
Critique 1 due			
THURS	5/31/2012	Inferior colliculus-part 1 ; parts 1&2 for printing	Oliver
		Inferior colliculus-part 2	Oliver
FRI	6/1/2012	Spanish in Morning, No Neuro Class	
SAT	6/2/2012		
SUN	6/3/2012	Week 3	
MON	6/4/2012	Physiology of auditory nerve	Tom Yin
		Physiology of cochlear nucleus: AVCN and DCN	Tom Yin

TUES	6/5/2012	Physiology of cochlear nucleus: AVCN and DCN	Tom Yin
		Binaural hearing	Tom Yin
		Paper 2 due	
WED	6/6/2012	SOC	Tom Yin
		Inferior colliculus	Tom Yin
		Critique 2 due	
THURS	6/7/2012	Descending pathways	Saldana
		TLC	Saldana
FRI	6/8/2012	NO CLASS	
		Travel to Prague	
SAT	6/9/2012	Prague	
SUN	6/10/2012	Week 6- In Prague CZ - Auditory Neuroscience Methods	
MON	6/11/2012		
	9:00	Introduction	Josef Syka
	9:30	Methods and Signals	Les Bernstein
		Methods and Signals	Les Bernstein
	11:00	Introduction to Four Methods	
	12:00	LUNCH	
	13:15-17:30	1. Acoustical measurement and stimulation	
		2. Anesthesia, surgery, ABR, middle latency, and compound AP	
		3. Behavioral methods, acoustic startle	
		4. Quantitative morphology, immuno-cytochemistry, histology	
TUES	6/12/2012		
	9:00	Binaural Hearing	Les Bernstein
		Binaural Hearing	Les Bernstein
	11:00	Introduction to Four Methods	
	12:00	LUNCH	
	13:15-17:30	1. Patch clamp and brain slices	
		2. Single and multiple unit recording	
		3. Two-photon confocal microscopy in the auditory cortex of mouse	
		4. Measurement of oto-acoustic emissions and subjective audiogram.	
WED	6/13/2012	Depart Prague & return to Salamanca	
THURS	6/14/2012	Frequency selectivity, masking and the critical band	Lopez-Poveda
		Frequency selectivity, masking and the critical band	Lopez-Poveda
FRI	6/15/2012	Spanish in Morning,	
FRI	6/15/2012	The perception of loudness	Lopez-Poveda
		Biologically Inspired Speech Processors for Auditory Prosthesis	Lopez-Poveda
		Paper 3 due	
SAT	6/16/2012		

SUN	6/17/2012	Week 5	
MON	6/18/2012	Auditory Cortex	Xiaoqin Wang
		Auditory Cortex	Xiaoqin Wang
		Critique 3 due	
TUES	6/19/2012	Auditory Cortex	Xiaoqin Wang
		Auditory Cortex	Xiaoqin Wang
WED	6/20/2012	Plasticity in Auditory System	Merchan et al
		Stimulus specific adaptation	Malmierca
THURS	6/21/2012	Student presentations -- Instead of a paper	
		FAREWELL PARTY	
FRI	6/22/2012	NO CLASSES	
SAT	6/23/2012	DEPART SALAMANCA	

*Revised 5/25/2012