

<b>PERSONNEL AND EQUIPMENT</b>				
<b>Category</b>				
<b>Staff, students</b>	grad student	salary		
assumes 1 postdoc		tuition		
and 1 lab tech		benefits		
but no grad student	postdoc	salary	(assume cost is \$48K/	
		tuition		
		benefits	(40% of salary)	
	lab tech	salary	(assume cost is \$33K/	
		tuition		
		benefits	(40% of salary)	
<b>Animals (primarily mice)</b>	Housing, ±100 cages, 3 years	\$0.53/cage/day x 100 cages x 3 years = \$5		
	Mice--purchase and transfer			
	Genotyping (shared equipment?)			
<b>Multielectrode array system</b>	MCS MEA-1060 system			
	infrared dissection system	dissection scope		
		infrared illuminator		
		eyepiece adapters (x2)		
		infrared camera attachments x2		
		normal illuminator		
	multielectrode arrays			
	visual stimulus system	Intel Mac (no monitor)		
		neutral density filter set		
		monitor (CRT)		
		projection lens		
		software	Matlab	
			PsychToolbox	
			Matlab continuing upd	
		stim. trigger	USB PMD-1208FS	
		various BNC cables		
		Lucivid CRT system for stimulus presentatio		
		monitor calibration d	Spyder2PRO	
		radiometer (light meter)		
		radiometer sensor heads		
		medium-quality dissection scope head (for s		
	misc.	tissue hold-down, perfusion parts		
		conductive pads ("Zebra" 45mm2)		
	data: sorting and analysis	software	Offline Sorter	
			NeuroExplorer	
			Igor Pro	
		hardware	analysis PC	
			external large data driv	
<b>Electrophysiology</b>	slices	Vibratome V3000 system		
<b>patch-clamp system</b>	retinal dissection system as above (duplicated; dedicated to rig)			
	pipettes	Sutter P-97 puller		
		Sutter glass and accessories		
	Faraday cage			
	vibration isolation table			
	microscope	upright		
		water-immersion lens		
		water-immersion lens		
	perfusion chamber	chamber		
		platform		
		heater		

	manipulator			
	gantry for manipulator			
	coarse manipulator			
	amplifier	HEKA EPC-10 single		
	acquisition	HEKA Patchmaster software		
		PC		
	bench-top rack			
	Humbug			
	osmometer (or access to one somewhere)			
<b>OptoMotry system</b>	(visual acuity and contrast sensitivity assessment via behavioral testing)			
<b>use of departmental confocal system</b>	training			
	time on laser			
	Imaris imaging software	(for cell morphometry)		
<b>Immunohistochemistry</b>	cryostat/microtome (Leica or similar) + supplies			
	secondary antibodies			
	primary antibodies			
	other solutions, chemicals			
<b>Electroretinogram (ERG) system</b>	DAM80 amplifier	(for a skeleton system, not a clinical instrument)		
	light source			
	corneal electrodes			
	plat. needles for ground			
	electrode holders			
	mouse heating pad			
	drugs, supplies			
<b>access to a departmental machine shop?</b>	desktop endmill			
	accessories, materials			
<b>Common equipment and</b>	scales	digital, medium/coarse		
		digital, fine		
<b>Miscellaneous items</b>	water purification system			
	Pipetemen	2 sets 10, 20, 200, 1000 uL, multi-uL		
		tips, tubes, other plastics		
	waterbath incubator			
	perfusion system parts	connectors (e.g., Luer), set; PE and silicone		
	instruments and supplies	surgery supplies, dissection tools, needles-		
	carbogen regulator (x2)			
	freezer, -20			
	freezer, -80			
	refrigerator			
	tools (screwdrivers, drill, etc.)			
	sonicator			
	lab cart			
	microwave			
	stirrer hotplate x2			
	timers			
	pH meter			
	mixer (Vortex)			
	misc: ice buckets, stir bars, pH standards, Parafilm, etc.			
<b>Safety equipment</b>	gloves for hot/cold/dry ice			
	sharps containers			
	broken glass containers			
	flammable liquids safety cabinet			
	chemical safety cabinet			
	safety goggles			
	first-aid kit			
	eye-wash station	(include in renovation)		

<b>Supplies</b>	consumables	various glassware, gloves, dishes, pipettes,		
	common chemicals			
	drugs	(various)		
<b>Office</b>	computing	Mac Pro G5		
		MacBook Pro		
		widescreen monitor		
		PC		
		KVM switch		
		PC + monitor for postdoc		
	software	Windows Vista		
		MS Office		
		Photoshop		
		Illustrator		
		Virus/Security		
		GraphPad Prism (statistics)		
		FileMakerPro		
		Acrobat		
		EndNote, other software		
	printing	2-sided, BW laser printer		
		color laser printer		
		paper		
		toner cartridges		
		color toner cartridges		
	furniture	(various; covered by renovation funds)		
	food fridge and microwave			
	misc. supplies	(pens, notebooks, folders, etc.)		
	network backup system	Retrospect		
		dedicated drives		
	presentation	(access to LCD projector)		
	professional associations, meetings, travel			
	textbooks, journals			

		<b>Estimated Costs</b>						
3-year or item	Cost	% of Total	Subtotal	% of Total				
		0.00						
		0.00						
		0.00						
yr x 2 yrs)	96000	14.07						
		0.00						
	38400	5.63						
yr x 2 yrs)	66000	9.68						
		0.00						
	26400	3.87	226800.00	33.25				
8035	58035	8.51						
	10000	1.47						
	6000	0.88	74035.00	10.85				
	50000	7.33						
	6000	0.88						
	200	0.03						
	700	0.10						
	4600	0.67						
	530	0.08						
	2000	0.29						
	3200	0.47						
	350	0.05						
	500	0.07						
	1000	0.15						
	500	0.07						
	0	0.00						
ate licence	400	0.06						
	150	0.02						
	50	0.01						
n	10000	1.47						
	250	0.04						
	1550	0.23						
	2500	0.37						
timulus alig	700	0.10						
	100	0.01						
	300	0.04						
	4200	0.62						
	3300	0.48						
	400	0.06						
	1500	0.22						
ve	400	0.06	95380.00	13.98				
	14000	2.05						
	11500	1.69						
	6700	0.98						
	600	0.09						
	1200	0.18						
	4000	0.59						
	40000	5.86						
	3000	0.44						
	2000	0.29						
	350	0.05						
	350	0.05						
	1500	0.22						

	8500	1.25							
	730	0.11							
	950	0.14							
	15295	2.24							
	3390	0.50							
	1500	0.22							
	185	0.03							
	1525	0.22							
	7000	1.03	124275.00	18.22					
	24000	3.52	24000.00	3.52					
	1000	0.15							
	3000	0.44							
	15000	2.20	19000.00	2.79					
	22000	3.23							
	3000	0.44							
	6000	0.88							
	2000	0.29	33000.00	4.84					
ent)	920	0.13							
	500	0.07							
	200	0.03							
	50	0.01							
	200	0.03							
	700	0.10							
	200	0.03	2770.00	0.41					
	2000	0.29							
	500	0.07	2500.00	0.37					
	200	0.03							
	2000	0.29							
	5000	0.73							
	4000	0.59							
	2400	0.35							
	2000	0.29							
e tubing; mis	1000	0.15							
set x2	2000	0.29							
	1000	0.15							
	2500	0.37							
	7000	1.03							
	1500	0.22							
	600	0.09							
	210	0.03							
	300	0.04							
	100	0.01							
	400	0.06							
	100	0.01							
	1200	0.18							
	400	0.06							
	2000	0.29	35910.00	5.26					
	10	0.00							
	130	0.02							
	30	0.00							
	700	0.10							
	700	0.10							
	30	0.00							
	50	0.01							
		0.00	1650.00	0.24					

slides, cover	9000	1.32							
	3000	0.44							
	6000	0.88	18000.00	2.64					
	3200	0.47							
	2200	0.32							
	700	0.10							
	1500	0.22							
	50	0.01							
	1700	0.25							
	200	0.03							
	300	0.04							
	500	0.07							
	400	0.06							
	100	0.01							
	800	0.12							
	300	0.04							
	100	0.01							
	500	0.07							
	800	0.12							
	1200	0.18							
	300	0.04							
	300	0.04							
	600	0.09							
		0.00							
	300	0.04							
	300	0.04							
	130	0.02							
	300	0.04							
		0.00							
	6000	0.88							
	2000	0.29	24780.00	3.63					
<b>TOTAL</b>	<b>682100</b>	100.00		100.00					







