| PERSONNEL AND EQUIPMENT | | | | Estimated Costs | | | |
|---|---|---|---|---|---|---|---|
| | | | | 3-year or item | % of | | % of |
| Category | | | | Cost | Total | Subtotal | Total |
| **Staff, students** | grad student | salary | | | 0.00 | | |
| assumes 1 postdoc | | tuition | | | 0.00 | | |
| and 1 lab tech | | benefits | | | 0.00 | | |
| but no grad student | postdoc | salary | (assume total cost is $48K each, | 0 | 0.00 | | |
| | | tuition | (1 for 2 years covered by department) | | 0.00 | | |
| | | benefits | | | 0.00 | | |
| | lab tech | salary | (assume total cost is $33K each, | 0 | 0.00 | | |
| | | tuition | (1 for 2 years covered by department) | | 0.00 | | |
| | | benefits | | | 0.00 | 0.00 | 0.00 |
| **Animals (primarily mice)** | Housing, ±100 cages, 3 years | $0.53/cage/day x 100 cages x 3 years = $58035 | | 58035 | 12.75 | | |
| | Mice--purchase and transfer | | | 10000 | 2.20 | | |
| | Genotyping (shared equipment?) | | | 6000 | 1.32 | 74035.00 | 16.26 |
| **Multielectrode array system** | MCS MEA-1060 system | | | 50000 | 10.98 | | |
| | infrared dissection system | dissection scope | | 6000 | 1.32 | | |
| | | infrared illuminator | | 200 | 0.04 | | |
| | | eyepiece adapters (x2) | | 700 | 0.15 | | |
| | | infrared camera attachments x2 | | 4600 | 1.01 | | |
| | | normal illuminator | | 530 | 0.12 | | |
| | multielectrode arrays | | | 2000 | 0.44 | | |
| | visual stimulus system | Intel Mac (no monitor) | | 3200 | 0.70 | | |
| | | neutral density filter set | | 350 | 0.08 | | |
| | | monitor (CRT) | | 500 | 0.11 | | |
| | | projection lens | | 1000 | 0.22 | | |
| | | software | Matlab | 500 | 0.11 | | |
| | | | PsychToolbox | 0 | 0.00 | | |
| | | | Matlab continuing update licenc | 400 | 0.09 | | |
| | | stim. trigger | USB PMD-1208FS | 150 | 0.03 | | |
| | | various BNC cables | | 50 | 0.01 | | |
| | | Lucivid CRT system for stimulus presentation | | 10000 | 2.20 | | |
| | | monitor calibration Spyder2PRO | | 250 | 0.05 | | |
| | | radiometer (light meter) | | 1550 | 0.34 | | |
| | | radiometer sensor heads | | 2500 | 0.55 | | |
| | | medium-quality dissection scope head (for stimulus | | 700 | 0.15 | | |
| | misc. | tissue hold-down, perfusion parts | | 100 | 0.02 | | |
| | | conductive pads ("Zebra" 45mm2) | | 300 | 0.07 | | |
| | data: sorting and analysis | software | Offline Sorter | 4200 | 0.92 | | |
| | | | NeuroExplorer | 3300 | 0.72 | | |
| | | | Igor Pro | 400 | 0.09 | | |
| | | hardware | analysis PC | 1500 | 0.33 | | |
| | | | external large data drive | 400 | 0.09 | 95380.00 | 20.95 |
| **Electrophysiology** | slices | Vibratome V3000 system | | 14000 | 3.07 | | |
| **patch-clamp system** | retinal dissection system as above | (duplicated; dedicated to rig) | | 11500 | 2.53 | | |
| | pipettes | Sutter P-97 puller | | 6700 | 1.47 | | |
| | | Sutter glass and accessories | | 600 | 0.13 | | |
| | Faraday cage | | | 1200 | 0.26 | | |
| | vibration isolation table | | | 4000 | 0.88 | | |
| | microscope | upright | | 40000 | 8.79 | | |
| | | water-immersion lens | | 3000 | 0.66 | | |
| | | water-immersion lens | | 2000 | 0.44 | | |
| | perfusion chamber | chamber | | 350 | 0.08 | | |
| | | platform | | 350 | 0.08 | | |
| | | heater | | 1500 | 0.33 | | |
| | manipulator | | | 8500 | 1.87 | | |
| | gantry for manipulator | | | 730 | 0.16 | | |
| | coarse manipulator | | | 950 | 0.21 | | |
| | amplifier | HEKA EPC-10 single | | 15295 | 3.36 | | |
| | acquisition | HEKA Patchmaster software | | 3390 | 0.74 | | |
| | | PC | | 1500 | 0.33 | | |
| | bench-top rack | | | 185 | 0.04 | | |
| | Humbug | | | 1525 | 0.33 | | |
| | osmometer (or access to one somewhere) | | | 7000 | 1.54 | 124275.00 | 27.30 |
| **OptoMotry system** | (visual acuity and contrast sensitivity assessment via behavioral testing) | | | 24000 | 5.27 | 24000.00 | 5.27 |
| **use of departmental** | training | | | 1000 | 0.22 | | |
| **confocal system** | time on laser | | | 3000 | 0.66 | | |
| | Imaris imaging software | (for cell morphometry) | | 15000 | 3.29 | 19000.00 | 4.17 |
| **Immunohistochemistry** | cryostat/microtome (Leica or similar) + supplies | | | 22000 | 4.83 | | |
| | secondary antibodies | | | 3000 | 0.66 | | |
| | primary antibodies | | | 6000 | 1.32 | | |
| | other solutions, chemicals | | | 2000 | 0.44 | 33000.00 | 7.25 |
| **Electroretinogram (ERG)** | DAM80 amplifier | (for a skeleton system, not a clinical instrument) | | 920 | 0.20 | | |
| **system** | light source | | | 500 | 0.11 | | |
| | corneal electrodes | | | 200 | 0.04 | | |
| | plat. needles for ground | | | 50 | 0.01 | | |
| | electrode holders | | | 200 | 0.04 | | |
| | mouse heating pad | | | 700 | 0.15 | | |
| | drugs, supplies | | | 200 | 0.04 | 2770.00 | 0.61 |
| **access to a departmental** | desktop endmill | | | 2000 | 0.44 | | |
| **machine shop?** | accessories, materials | | | 500 | 0.11 | 2500.00 | 0.55 |
| **Common equipment** | scales | digital, medium/coarse | | 200 | 0.04 | | |
| **and** | | digital, fine | | 2000 | 0.44 | | |
| **Miscellaneous items** | water purification system | | | 5000 | 1.10 | | |
| | Pipettemen | 2 sets 10, 20, 200, 1000 uL, multi-uL | | 4000 | 0.88 | | |
| | | tips, tubes, other plastics | | 2400 | 0.53 | | |
| | waterbath incubator | | | 2000 | 0.44 | | |
| | perfusion system parts | connectors (e.g., Luer), set; PE and silicone tubing; n | | 1000 | 0.22 | | |
| | instruments and supplies | surgery supplies, dissection tools, needles--set x2 | | 2000 | 0.44 | | |
| | carbogen regulator (x2) | | | 1000 | 0.22 | | |
| | freezer, -20 | | | 2500 | 0.55 | | |
| | freezer, -80 | | | 7000 | 1.54 | | |
| | refrigerator | | | 1500 | 0.33 | | |
| | tools (screwdrivers, drill, etc.) | | | 600 | 0.13 | | |
| | sonicator | | | 210 | 0.05 | | |
| | lab cart | | | 300 | 0.07 | | |
| | microwave | | | 100 | 0.02 | | |
| | stirrer hotplate x2 | | | 400 | 0.09 | | |
| | timers | | | 100 | 0.02 | | |
| | pH meter | | | 1200 | 0.26 | | |
| | mixer (Vortex) | | | 400 | 0.09 | | |
| | misc: ice buckets, stir bars, pH standards, Parafilm, etc. | | | 2000 | 0.44 | 35910.00 | 7.89 |
| **Safety equipment** | gloves for hot/cold/dry ice | | | 10 | 0.00 | | |
| | sharps containers | | | 130 | 0.03 | | |
| | broken glass containers | | | 30 | 0.01 | | |
| | flammable liquids safety cabinet | | | 700 | 0.15 | | |
| | chemical safety cabinet | | | 700 | 0.15 | | |
| | safety goggles | | | 30 | 0.01 | | |
| | first-aid kit | | | 50 | 0.01 | | |
| | eye-wash station | (include in renovation) | | | 0.00 | 1650.00 | 0.36 |
| **Supplies** | consumables | various glassware, gloves, dishes, pipettes, slides, c | | 9000 | 1.98 | | |
| | common chemicals | | | 3000 | 0.66 | | |
| | drugs | (various) | | 6000 | 1.32 | 18000.00 | 3.95 |
| **Office** | computing | Mac Pro G5 | | 3200 | 0.70 | | |
| | | MacBook Pro | | 2200 | 0.48 | | |
| | | widescreen monitor | | 700 | 0.15 | | |
| | | PC | | 1500 | 0.33 | | |
| | | KVM switch | | 50 | 0.01 | | |
| | | PC + monitor for postdoc | | 1700 | 0.37 | | |
| | software | Windows Vista | | 200 | 0.04 | | |
| | | MS Office | | 300 | 0.07 | | |
| | | Photoshop | | 500 | 0.11 | | |
| | | Illustrator | | 400 | 0.09 | | |
| | | Virus/Security | | 100 | 0.02 | | |
| | | GraphPad Prism (statistics) | | 800 | 0.18 | | |
| | | FileMakerPro | | 300 | 0.07 | | |
| | | Acrobat | | 100 | 0.02 | | |
| | | EndNote, other software | | 500 | 0.11 | | |
| | printing | 2-sided, BW laser printer | | 800 | 0.18 | | |
| | | color laser printer | | 1200 | 0.26 | | |
| | | paper | | 300 | 0.07 | | |
| | | toner cartridges | | 300 | 0.07 | | |
| | | color toner cartridges | | 600 | 0.13 | | |
| | furniture | (various; covered by renovation funds) | | | 0.00 | | |
| | food fridge and microwave | | | 300 | 0.07 | | |
| | misc. supplies | (pens, notebooks, folders, etc.) | | 300 | 0.07 | | |
| | network backup system | Retrospect | | 130 | 0.03 | | |
| | | dedicated drives | | 300 | 0.07 | | |
| | presentation | (access to LCD projector) | | | 0.00 | | |
| | professional associations, meetings, travel | | | 6000 | 1.32 | | |
| | textbooks, journals | | | 2000 | 0.44 | 24780.00 | 5.44 |
| | | | **TOTAL** | **455300** | 100.00 | | 100.00 |