

**Tech Prep Sheet: Bio Sci 230 (WEEKLY TRANSFER).**

**Cell Culture Lab: please review list before beginning of semester and ensure ALL items are available as listed.**

**THIS LAB WILL RUN for 3-4 Weeks. All supplies should be readily available. Students will practice “Once a week” transfer for a few weeks. 12 students per day (Tuesday / Thursday). By 3-4 week...students will need enriched media and ability to transfer and cryopreserve cells. Extra cell cultures should be available to accommodate the inevitable crash of the cell lines transferred by new students of cell culture.**

**CRYO: Required only during week of cryopreservation steps.**

| <b>Supplies</b>  | Amount/<br>student pair | Total #<br>students | Total<br>amount | Precautions/storage/timeline  |
|--|-------------------------|---------------------|-----------------|---|
| 50 ml tissue culture vial  | 2                       | 24                  | 24              | One culture to start with, 4 transfers, 150 vials total   |
| 50 ml falcon with insect cell media                                | 2                       | 24                  | 24              | One falcon per student, <b>Order second liter and split</b>                                       |
| 10 ml sterile serological pipet                                    | 2                       | 24                  | 24              | In lab, restock as needed   |
| 1 sterile transfer pipet   | 2                       | 24                  | 24              | In lab, restock as needed.  |
| Sterile 1.5 ml microfuge tube                                      | 2                       | 24                  | 24              | In lab, pre-sterilized,   |
| <b>CRYO: Cryo-vials</b>  | 2                       | 24                  | 48              | SOP to be developed, may be some changes.   |
| <b>CRYO: 15 ml falcons</b>   | 2                       | 24                  | 24              | SOP to be developed, may be some changes.   |
| <b>CRYO: Pasteur Pipet tips</b>                                    | 2                       |                     |                 | SOP to be developed, may be some changes.   |
| <b>Reagents</b>  | Amount/<br>student pair | Total #<br>students | Total<br>amount | Precautions/storage/timeline  |
| Trypan Blue  | 1                       | 24                  | 12              | Have at least 12 sub aliquots in 1.5 ml microfuge tubes, vial of 50 mls plus to refill as needed. |
| Hemo-cytometers  | 1                       | 24                  | 12              | Can re-use, share as needed...  |
| Cover slips  | 1                       | 24                  | 12              | Can re-use, share as needed...  |
| Isopropanol spray  |                         |                     |                 | 3 bottles, constantly in lab, labeled   |
| <b>CRYO: DMSO</b>  | 1-2mls                  | 24                  | 24 ml           | Need More?  |
| <b>CRYO: Fetal Bovine Serum</b>                                    |                         |                     |                 |   |
| <b>CRYO</b>  |                         |                     |                 |   |
| <b>Equipment</b>   | Amount/<br>student pair | Total #<br>students | Total<br>amount | Precautions/storage/timeline  |
| Microscope, tissue cult scope, tissue culture hood, micropipettes. |                         |                     |                 | In Lab, use as needed.  |
| <b>CRYO: ethanol freeze down container.</b>                        |                         |                     |                 | Re-use..can have different alcohols in it..   |