**Using light stable isotopes to assess stream food web ecology in a general ecology laboratory course**

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**Supplementary Information: List of Supplies and Budget Information**

***Field Sampling***

* Waders (or Hip Boots)
* Kick Nets
* Drift Nets
* Plankton Tow Net
* Disposable Plastic Forceps
* Polyethylene Larval Sorting Trays (9 ¾ x 7 ¾ x 1 ½“)
* Ziploc Sandwich Bags (or Whirl-Pak bags)
* Permanent Markers
* Angling Equipment (students’ personal gear; valid fishing licenses; beach seines and/or minnow traps would be acceptable substitutes in some systems)
* Scissors or a One-hole Paper Punch (for taking fin clips)

***Laboratory***

* Stainless Steel Featherweight Entomology Forceps (disposable plastic forceps will melt in the wash solution)
* Plastic Sorting Trays
* Disposable Glass Pasteur Pipettes (2 mL capacity)
* Natural Rubber Dropper Bulbs (2 mL capacity; for use with disposable pipettes)
* Kim-wipes
* Nitrile Gloves (all sizes)
* Safety Goggles
* Stainless Steel Micro Scoop Laboratory Spatulas
* Plastic Square Weigh Boats (Medium)
* Glass Petri Dishes (60 mm; but other sizes would suffice)
* 2:1 Chloroform:Methanol Wash Solution (use 95% CH3OH; keep in 1 L glass bottle in fume hood)
* 1 L Glass Bottle (waste container for wash solution disposal; keep in fume hood)
* Broken Glass Waste Container (for used pipettes)
* Standard Fume Hood
* 1 Dram Glass Vials (w/cap)
* Filter Paper (optional, if plankton tows conducted)
* Funnel (optional, if plankton tows conducted)
* Glass Erlenmeyer Filtering Flask (optional, for vacuum filtration of plankton samples)
* Low Temperature Drying Oven

**Budget (Prices Paid Spring Semester, 2019)**

|  |  |  |
| --- | --- | --- |
| **Item** | **# Purchased** | **Price** |
| Plastic Forceps (Disposable)e | 100 | $19.49 |
| Stainless Steel Featherweight Forceps | 6 @ $6.99 ea. | $41.94 |
| Glass Pasteur Pipettes (2 mL capacity)e | 250 | $24.33 |
| Natural Rubber Dropper Bulbs (2 mL)e | 72 | $24.99 |
| Kim-wipe e | 6 packs of 280 11x21 cm wipes | $19.30 |
| Nitrile Gloves (S, M, L, XL)e | 100 count box @ $8.95-$9.95 ea. | $37.80 |
| Safety Gogglesr | 6 pairs @ $9.85 ea. | $59.10 |
| Plastic Weight Boats (M)e | 500 | $17.49 |
| 1-dram Glass Vials (w/caps)e | 144 | $34.99 |
| Glass Petri Dishes (60 x 15 mm)r | 6 orders of 5 @ $13.79 ea. | $82.74 |
| Ziploc Sandwich Bagse | 152 count | $4.66 |
| Stainless Steel Micro Scoop Lab Spatulasr | 6 pack @ $6.99 | $6.99 |
| Filter Paper (12.5 cm)e | 100 pack @ $10.49 | $10.49 |
| Funnelr | 3 @ $9.75 ea. | $29.25 |
| ISU SIPERG Stable Isotopes Analyzed | 19 samples @ $15.00 ea. | $285.00 |
| WCU Van Rental Fees (2 15-passenger vans) | 124 miles (62 ea.) @ $0.53/mile | $65.72 |
| **Items Already Available For Use at WCU** |  |  |
| Wadersr | N/A | -- |
| Kick Netsr | N/A | -- |
| Drift Netsr | N/A | -- |
| Plankton Tow Netr | N/A | -- |
| Polyethylene Sorting Traysr | N/A | -- |
| Scissors (Stainless Steel)r | N/A | -- |
| Fume Hoodr | N/A | -- |
| Low Temperature Drying Ovenr | N/A | -- |
| Broken Glass Waste Container | N/A | -- |
| 2 1-L Glass Bottles | N/A | -- |
| Chloroform:Methanol Solution | N/A | -- |
| Sharpie Permanent Markersr | N/A | -- |
| Angling Equipment | N/A | -- |
| Glass Erlenmeyer Filtering Flaskr | N/A | -- |
| **TOTAL BUDGET** |  | **$744.79** |

e Extra materials left over for use in future laboratory exercises

r Reusable materials that will not need to be reordered for future laboratory exercises unless they are broken or otherwise damaged beyond use