ESD24 Wild Lobster Data Set Description:

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| Date | Lobster sample initial collection date. |
| LobNo | Assigned ESD24 study number to keep track of samples. |
| Samplers | People (initials) who conducted the initial sample collection of the lobster. |
| Location | Where the lobster was collected from the in ventless trap survey. |
| MBSwab | If microbiome swab was collected from the dorsolateral region of the cephalothorax. Lobsters were pre-rinsed with dI water prior to the swab and swab was collected for 30 seconds. |
| ExtraMBSwab | If ESD was present, a second microbiome swab was taken to determine how the bacterial composition varied between the diseased lesion areas on the exoskeleton compared to the healthy regions. |
| SwabNotes | Notes on where the second and first swabs were taken if one swab was on a diseased lesion and the other was healthy. |
| VisAssess | Lobster notes from initial intake. Legions due to ESD along with other damages to the lobster are all noted. |
| ESD | ESD lesion severity rating (0-3). 0 is no visible ESD lesions on the exoskeleton,1 is 1-10% exoskeleton coverage of disease, 2 is 11-50% and 3 is 51-100% disease coverage. |
| HLFormalin | Hemolymph samples diluted 1:10 in cold formalin to preserve hemolymph for hemocyte counts. |
| Glucose | Glucose concentration (mg/mL) of lobster hemolymph (averaged from two pseudo replicates) with glucose colorimetric assay using Glucose Colorimetric Detection Kit (EIAGLUC) from Invitrogen, Maryland, USA. |
| Brix | Hemolymph Blood Protein Content (%) used as a proxy for molt stage collected on a Brix refractometer from a drop of hemolymph. |
| MoltStatus | Calculated from Brix where where lobsters were assigned into three catergories, post-molt (Brix less than 8.5, intermolt (Brix between 8.5 and 13), and pre-molt (Brix over 13) (from Gulf Nova Scotia Fleet Planning Board, 2019). |
| Weight | Weight (grams) of full lobster |
| CL | Carapace length (mm) measured from the right eye orbital to center end of carapace. |
| TailL | Tail length (mm) measured with lobster sitting flat on the tray from the center end of the carapace to the center end of the telson. |
| BigTube | Large tube pre-weight (grams) for hepatopancreas samples that were put in a large tube for freeze drying to prevent sample spilling. |
| HP3TubePre | Small eppendorf tube pre-weight (grams) before hepatopancreas sample was added. |
| HP3Wet | Eppendorf tube with hepatopancreas sample added weight (grams). |
| HP3Dry | Eppendorf tube (and big tube) with hepatopancreas sample weight (grams) after freeze drying for 48 hours. |
| HPCalc | Hepatopancreas weights calculated to see lipid content (HP3Dry-(HP3TubePre+BigTube)/(HP3Wet-HP3Pre) |
| HPPer | HPCalc \* 100 to get lipid content as a percent from the hepatopancreas samples. |
| Glycogen |  |
| DiffHraw | Differential Hemocyte Counts: Hyaline cells. Out of 200 cells counted number of hyaline cell on imageJ from microscopy. Identified from (Hose et al., 1990). |
| DiffSGraw | Differential Hemocyte Counts: Small granulocytes. Out of 200 cells counted number of small granulocytes on imageJ from microscopy. Identified from (Hose et al., 1990). |
| DiffLGraw | Differential Hemocyte Counts: Large granulocytes. Out of 200 cells counted number of large granulocytes on imageJ from microscopy. Identified from (Hose et al., 1990). |
| DiffTGraw | Differential Hemocyte Counts: total number of granulocytes Out of 200 cells counted number of both small and large granulocytes on imageJ from microscopy. Identified from (Hose et al., 1990). |
| Hdiff | DiffHraw / 200 \*100 to get percent hyaline cells of all hemocytes counted. Gives a ratio of the types of hemocytes present. |
| Sdiff | DiffSGraw / 200 \*100 to get percent small granulocytes cells of all hemocytes counted. |
| Ldiff | DiffLGraw / 200 \*100 to get percent large granulocytes cells of all hemocytes counted. |
| tc1 | Total hemocyte count using a hemocytometer and the center 5 by 5 grid. Replicate 1. |
| tc2 | Total hemocyte count using a hemocytometer and the center 5 by 5 grid. Replicate 2. |
| tc3 | Total hemocyte count using a hemocytometer and the center 5 by 5 grid. Replicate 3. |
| tc4 | Total hemocyte count using a hemocytometer and the center 5 by 5 grid. Replicate 4. |
| tcaveraw | Average total hemocyte count using a hemocytometer of the center 5 by 5 grid. |
| tcave1 | Average total hemocyte count incorporating dilution factors of hemolymph observed to find cell/mL in original lobster hemolymph. |
| Extranotes | Additional notes about samples. |