*Wing geometry of An. darlingi across latitudes of Brazil and under three different temperature treatments*

1. Field collected mosquitos
   1. Question: Are the effects of biome or latitude stronger on the wing shape/length/CS of field collected females?
   2. Shape
      1. Independent variables: Biome, Latitude/Locality
      2. Dependent variables: Procrustes coordinates by 13 or 18 landmarks
      3. Method: MANOVA
   3. Wing length
      1. Independent variables: Biome, Latitude/Locality
      2. Dependent variables: Wing length (mm)
      3. Method: Factorial ANOVA
   4. Centroid Size
      1. Independent variables: Biome, Latitude/Locality
      2. Dependent variables: Centroid size calculated either by 13 or 18 landmarks
      3. Method: Get CS values from CLIC MOG  
         Factorial ANOVA
   5. Linearly regress centroid size (by 13 or 18 landmarks) and wing length to see if there are differences between the 2 methods
      1. Determine which is more linearly related

1. Lab reared mosquitos
   1. Question: How does biome, latitude, and rearing temperature affect the wing length and shape of lab reared males and females?
   2. Shape
      1. Independent variables: Biome, Latitude/Locality, Temperature
      2. Dependent variables: Procrustes coordinates by 13 or 18 landmarks
      3. Method: MANOVA
   3. Wing length
      1. Independent variables: Biome, Latitude/Locality, Temperature
      2. Dependent variables: Wing length (mm)
      3. Method: Factorial ANOVA
   4. Centroid Size
      1. Independent variables: Biome, Latitude/Locality, Temperature
      2. Dependent variables: Centroid size calculated either by 13 or 18 landmarks
      3. Method: Get CS values from CLIC MOG  
         Factorial ANOVA
   5. Linearly regress centroid size (by 13 or 18 landmarks) and wing length to see if there are differences between the 2 methods
      1. Determine which is more linearly related