KRIS To DO

Ondi: I've attached the pilot body size data which includes body size from hatch and two time points following hatch. I've analysed the data up until the first time point following hatching (R script attached). The broad questions are: what are the effects (short and sustained) of developmental conditions on lizard phenotype and survival? The specific questions:

1. What are the effects of developmental treatments on time to hatch?
   * Effect on temperature: lizards incubated at 28c faster development
2. What are the effects of developmental treatments hatching success?
   * N/A  - not enough data on hatchling mortality
3. What are the effects of developmental treatments on body size, condition, and mass at hatching?
   * SVL: hormone effects body size - high hormone low svl
   * MASS: hormone & temp effects body size - high hormone lower mass; lizards incubated at 23c higher mass
   * BCI: poor BCI for lizards incubated at 28c
4. What are the effects of developmental treatments on juvenile body size, condition, and mass (at the 2 points measured after hatching[juv1 & juv2])?
   * Juv1\_SVL: effect of temperature- lizards incubated at 23c larger svl
   * Juv2\_SVL: no effects
   * Juv1\_MASS: effect on hormone and temp - low mass with high hormones; low mass with lizards incubated at 28c
   * Juv2\_MASS: no effects on treatments; marginal effect hormones p 0.06
   * Juv1\_BCI: no treatment effects
   * Juv2\_BCI: no treatment effects
5. Does developmental treatment affect survival? I.e., have more lizards from certain treatments died compared to lizards from other treatments?
   * No effects across treatments
6. Differences in growth rates? Growth rate calculations: calculated growth rates by dividing change in SVL (or mass) between initial, juv 1, juv 2(final) measurements/by the total number of days elapsed
   * Initial to Juv 1 SVL : faster growth rates for lizards incubated at 23c
   * Initial to Juv 1 Mass : faster growth rates for lizards incubated at 23c
   * Juv 1 to Juv 2 SVL : faster growth rates for lizards incubated at 28c
   * Juv 1 to Juv 2 Mass: faster growth rates for lizards incubated at 28c
   * Initial to Juv 2 SVL : No treatment effects
   * Initial to Juv 2 Mass: No treatment effects