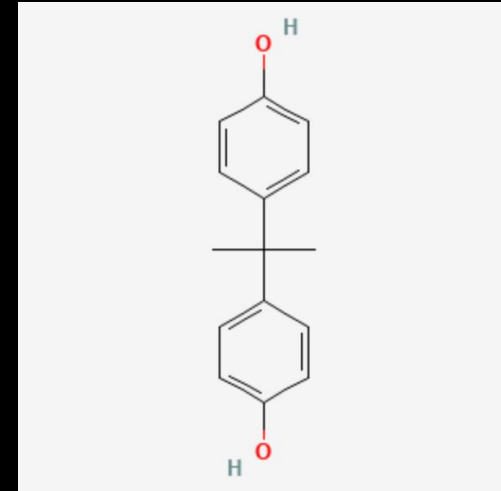


The Effects of BPA and BPS on *C. elegans* Reproduction System

By: Addison Ramsey

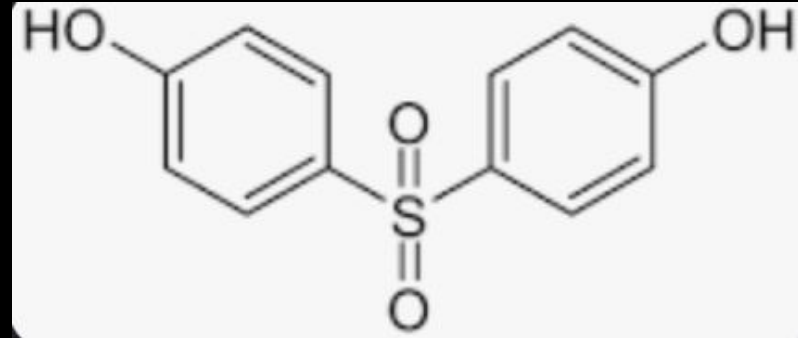
Bisphenol A

- Bisphenol A (BPA)
- Chemical that is produced in products like plastic water bottles



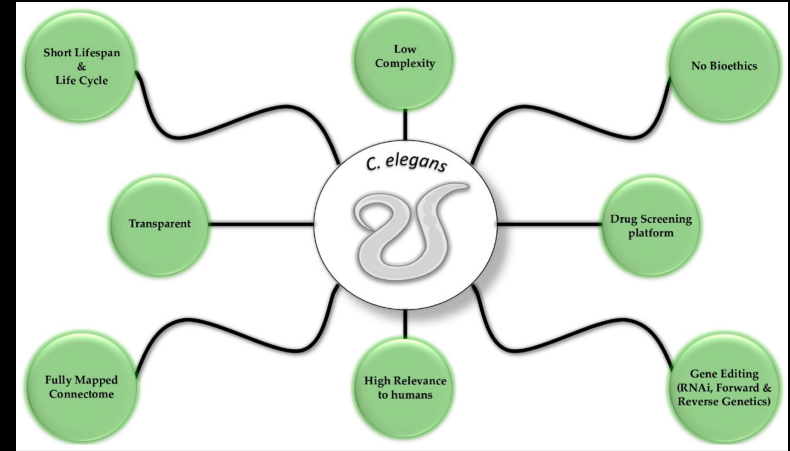
Bisphenol S

- Bisphenol S (BPS)
- Chemical that is mainly used to make plastic water bottles
- Known to be more dangerous than BPA
- Effects the reproductive system more than BPA

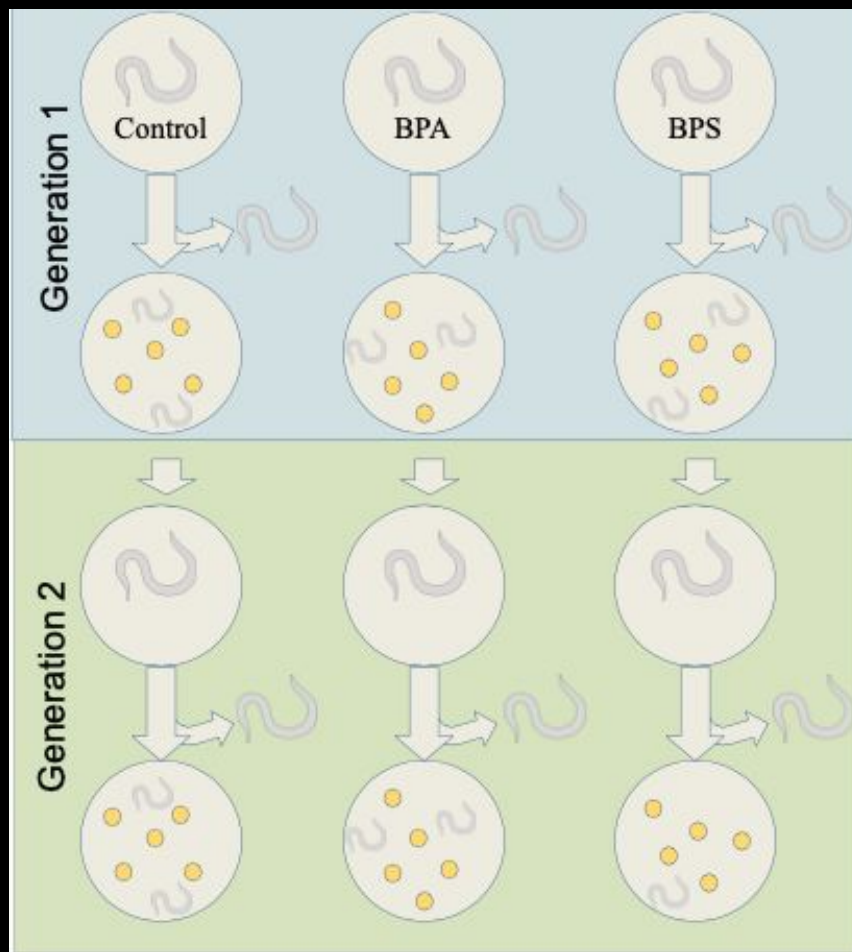


C. elegans

- *Caenorhabditis elegans* are free living worms
- Mainly used in labs to study human diseases.
- Lifespan of 20 days
- Can be easily screened for effects of novel drugs on humans

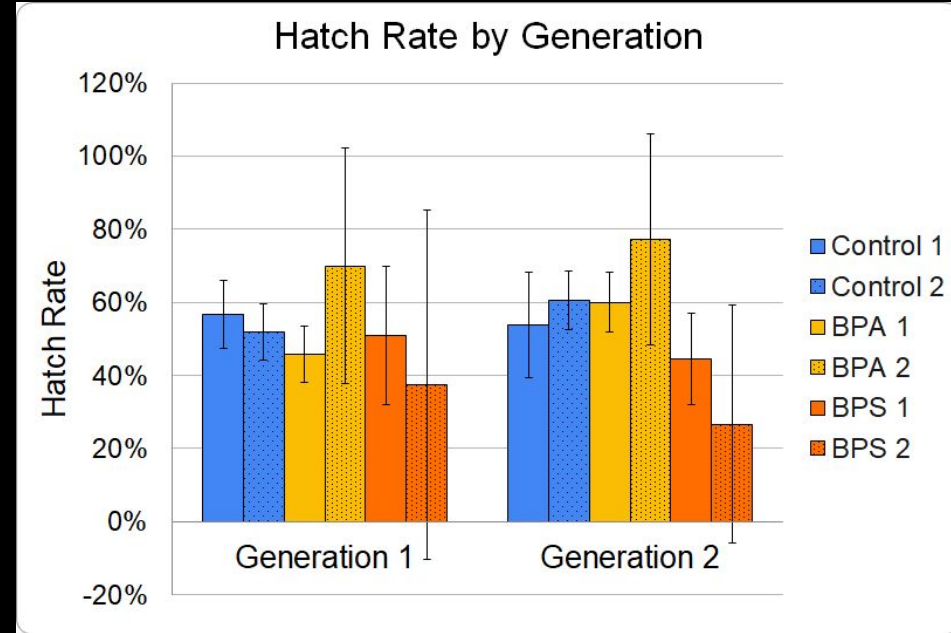


Methods



Results

- BPS affected the *C. elegans* hatch rate more than BPA and my control.
- Repeat at least one more time ideally 3 more times
- Standard deviations are high so I can't draw a conclusion



Future Directions

- Larger plates for bigger sample size.
- Repeat at least one more time ideally 3 more times
- Different chemicals that are similar to BPA and BPS for example, estrogen, for different results.
- Continue this project but maybe take a different route and work on lady slippers



Thank You