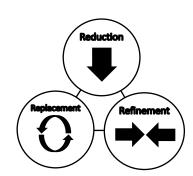
Innovations in marine toxicity testing: Fish embryo and mysid tests as replacements for larval test



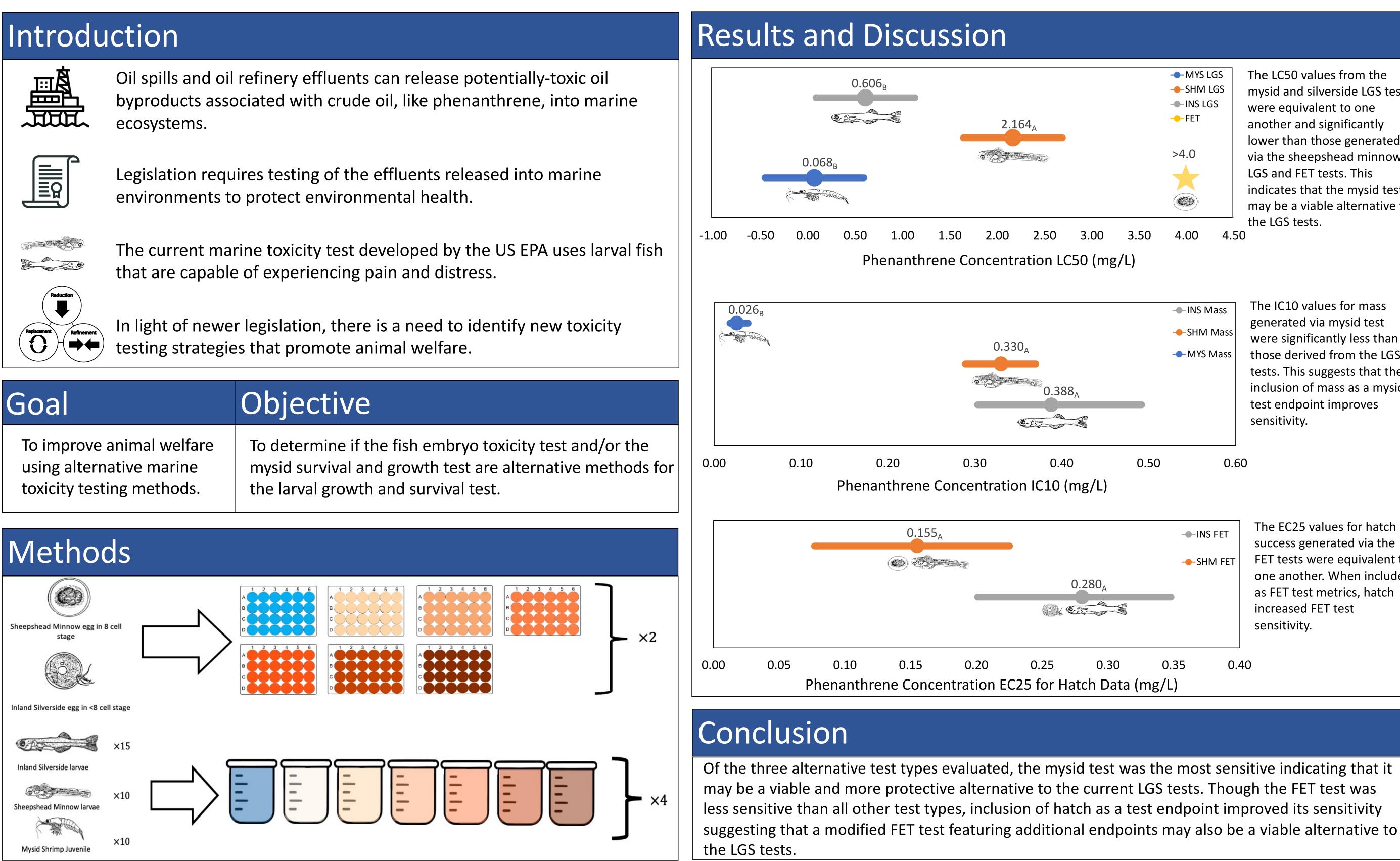


environments to protect environmental health.



testing strategies that promote animal welfare.

Objective To improve animal welfare using alternative marine toxicity testing methods.





Katie Solomons, **Dalton Allen and Marlo Jeffries Biology Department**

Texas Christian University

The LC50 values from the mysid and silverside LGS tests were equivalent to one another and significantly lower than those generated via the sheepshead minnow LGS and FET tests. This indicates that the mysid test may be a viable alternative to the LGS tests.

The IC10 values for mass generated via mysid test were significantly less than those derived from the LGS tests. This suggests that the inclusion of mass as a mysid test endpoint improves sensitivity.

0.60

The EC25 values for hatch success generated via the FET tests were equivalent to one another. When included as FET test metrics, hatch increased FET test sensitivity.

0.40