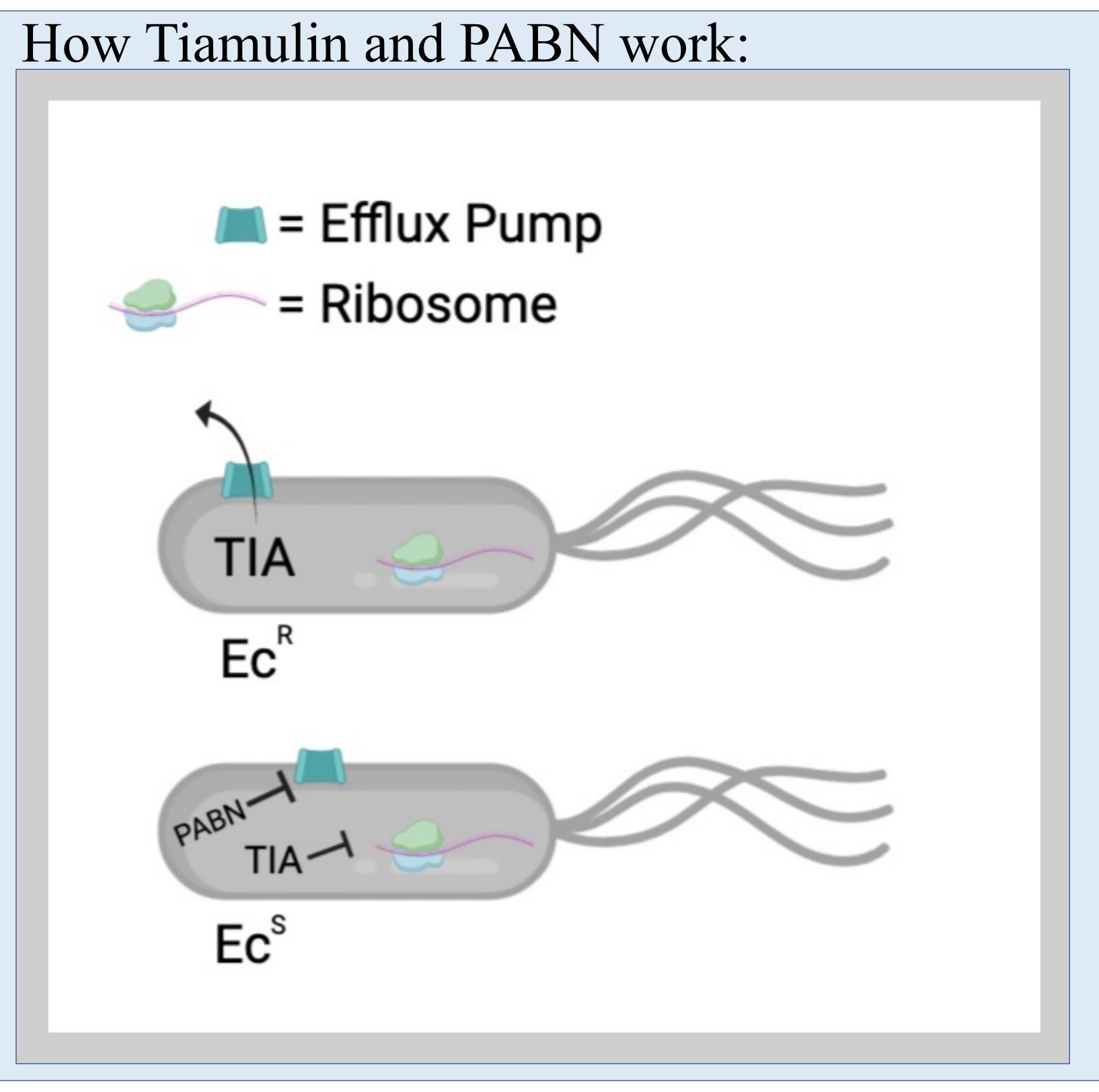
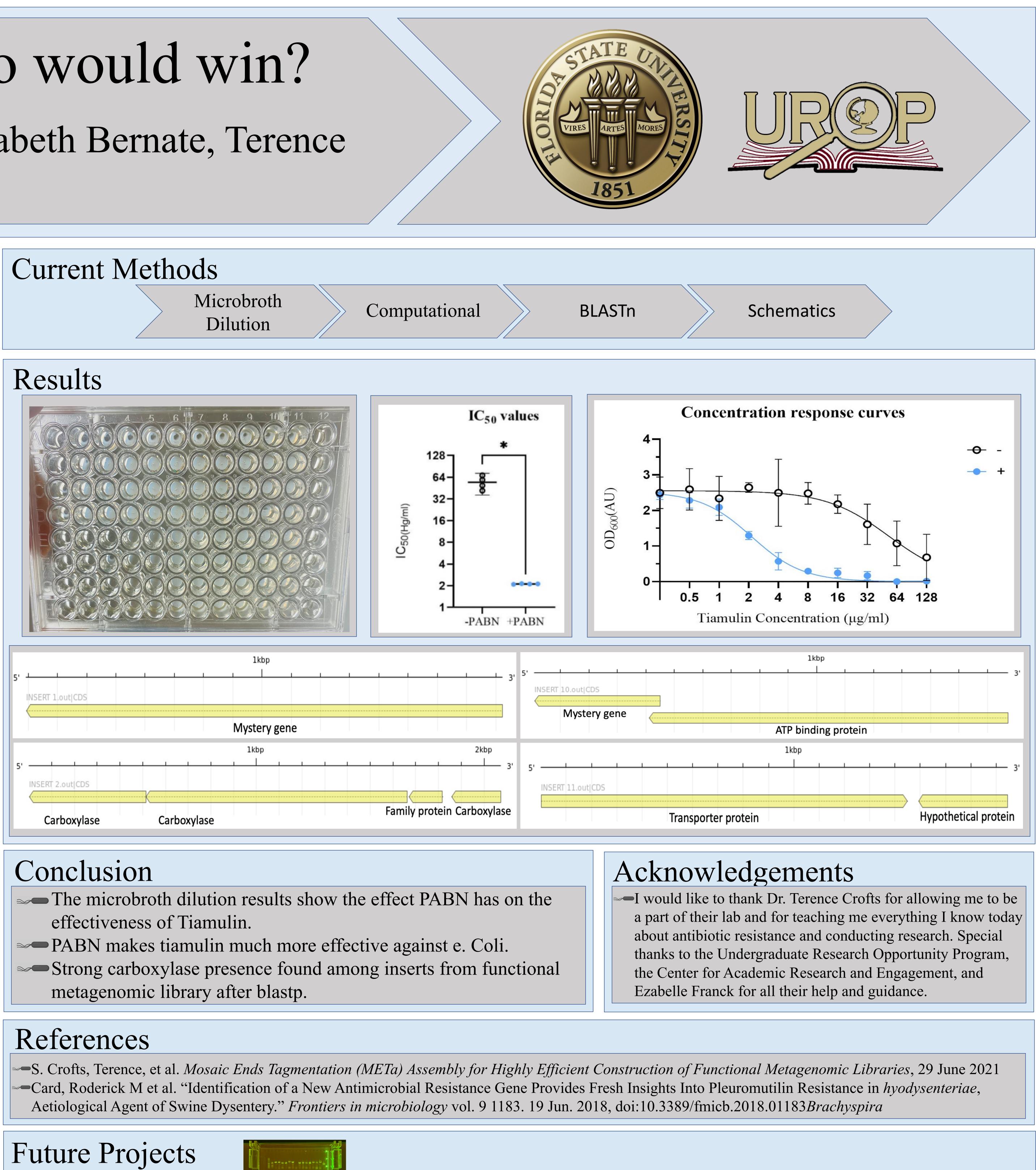
Tiamulin vs. E. coli: who would win? Sophia Vizoso, Ezabelle Franck, Elizabeth Bernate, Terence

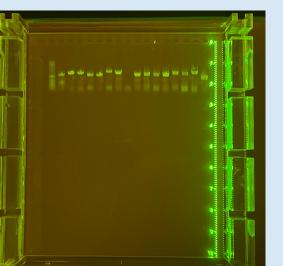
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Abstract

- Increase in antibiotic resistance over the past few decades.
- This study specifically investigates Tiamulin, an antibiotic from the mulin family.
- Research shows that after a functional metagenomic selection and the sequencing of resistant colonies, some mystery genes were found to give resistance.
- E. coli doesn't typically show much interest in Tiamulin, it has been found that with an efflux inhibitor, they stop its growth.
- The goal in this study is to PCR amplify the mystery genes, clone them into a plasmid and put them in E. coli, and lastly measure E. coli tiamulin resistance.







Primer's processing

PCR

Analytical Gel

SPRI Bead Purification DNA Quantification

Assembly Transformation Plating

Colony PCR