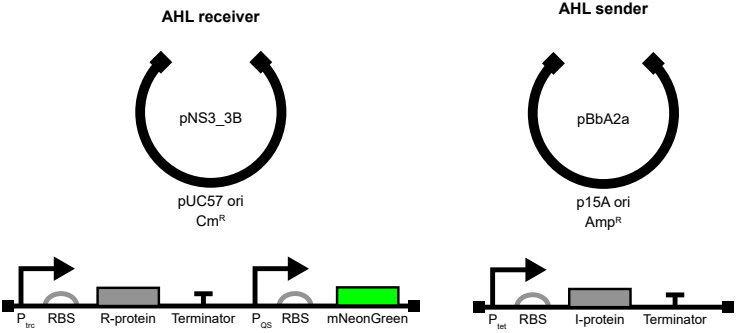
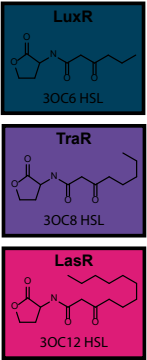


Figure 1: Conceptual diagram

A) Cartoon schematic of interaction between sucrose-secreting and AHL-producing *E. coli* with bidirectional communication



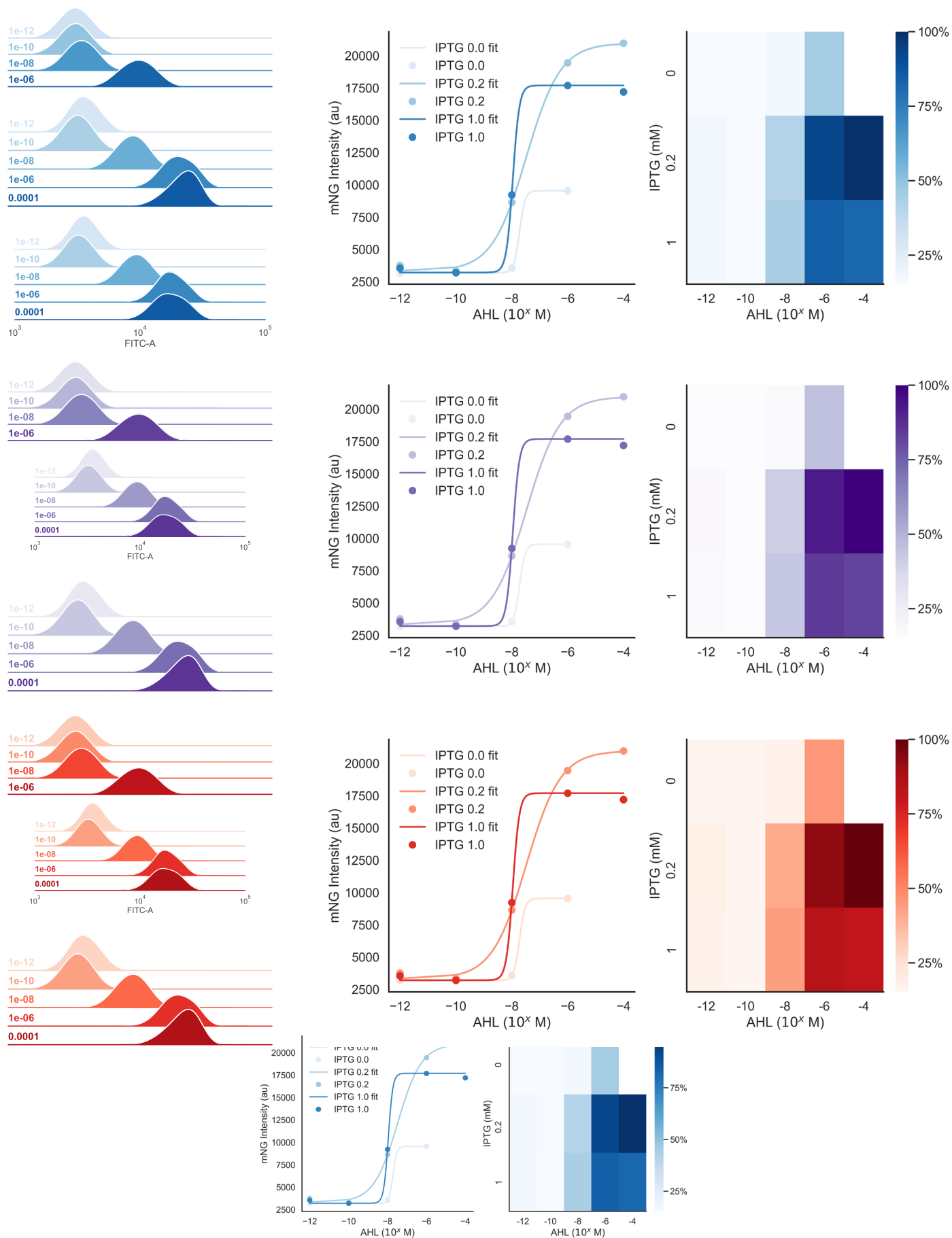


Figure 2: Performance of Lux, Las, & Tra responsive circuits in cyanobacteria

A) Schematic of expression cassettes tested in the study

B) Heat map of mNG reporter in LuxR-responsive cyanos to varied IPTG and AHL concentrations

C) Heat map of mNG reporter in LasR-responsive cyanos to varied IPTG and AHL concentrations

D) Heat map of mNG reporter in TraR-responsive cyanos to varied IPTG and AHL concentrations