## Experimental Methods

5x replicates

8x1

28x2

70x4

1x8 stressor combinations

= 595 wells across 6 96-well plates

I assembled a panel of 10-12 soil bacteria, chosen to represent a functionally and phylogenetically diverse range of bacteria, including [classes]. I cultured bacteria over X days to a density of Y, using RB broth.

I chose eight common stressors: two pesticides, heavy metals, (poly)aromatic hydrocarbons, and antibiotics based on criteria of environmental presence, toxicity, existing literature and mechanism. I combined these stressors into 28 2-stressor mixtures, 70 4-stressor mixtures, and 1 8-stressor mixture, at UK regulatory concentration limits, for a total of 107 different stressor mixtures or single stressors.

I replicated each stressor mixture five times, for a total of 595 wells across 6 deep (2.5 ml) 96-well plates, which I cultured and exposed using a MicroStarlet automated benchtop workstation over X days. I may have re-diluted the wells over several days to produce a growth curve?