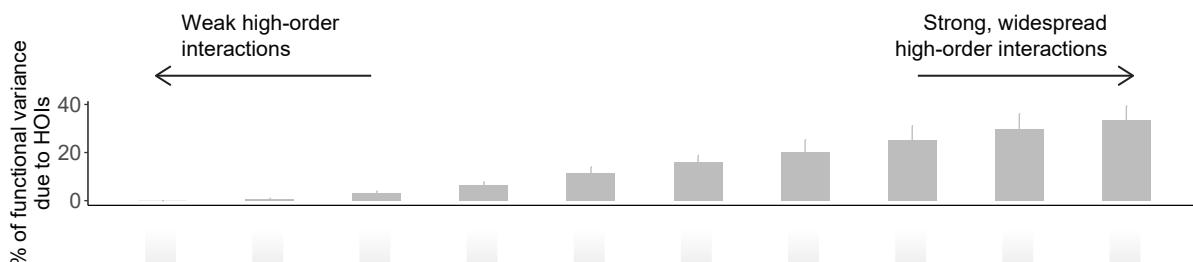
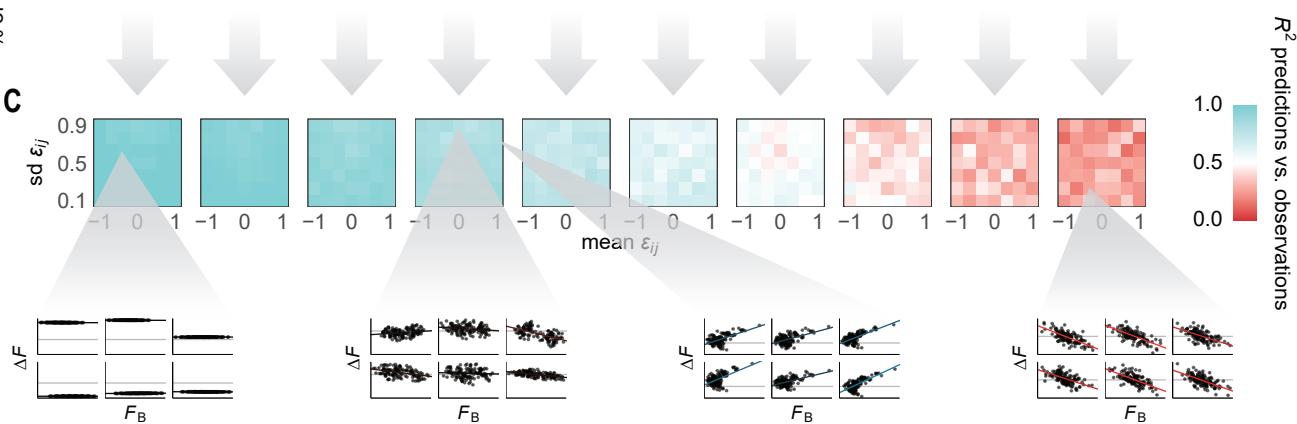
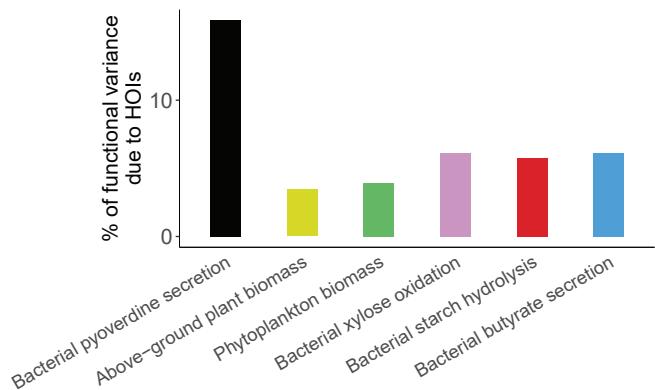
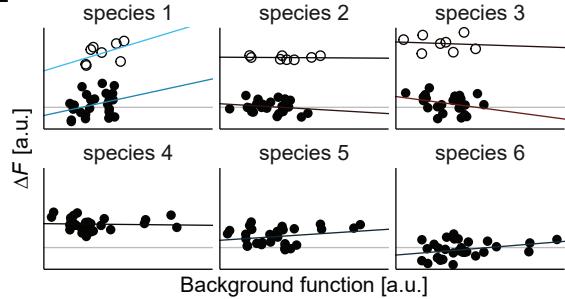


A

$$F(\mathbf{s}) = \sum_i F_i x_i + \sum_i \varepsilon_{ij} x_i x_j + H(\mathbf{s})$$

Additive species contributions Pairwise interactions Higher-order interactions (HOIs)

B**C****D****E**

○ Species 1, 2, 3 present
● Species 1, 2, 3 absent