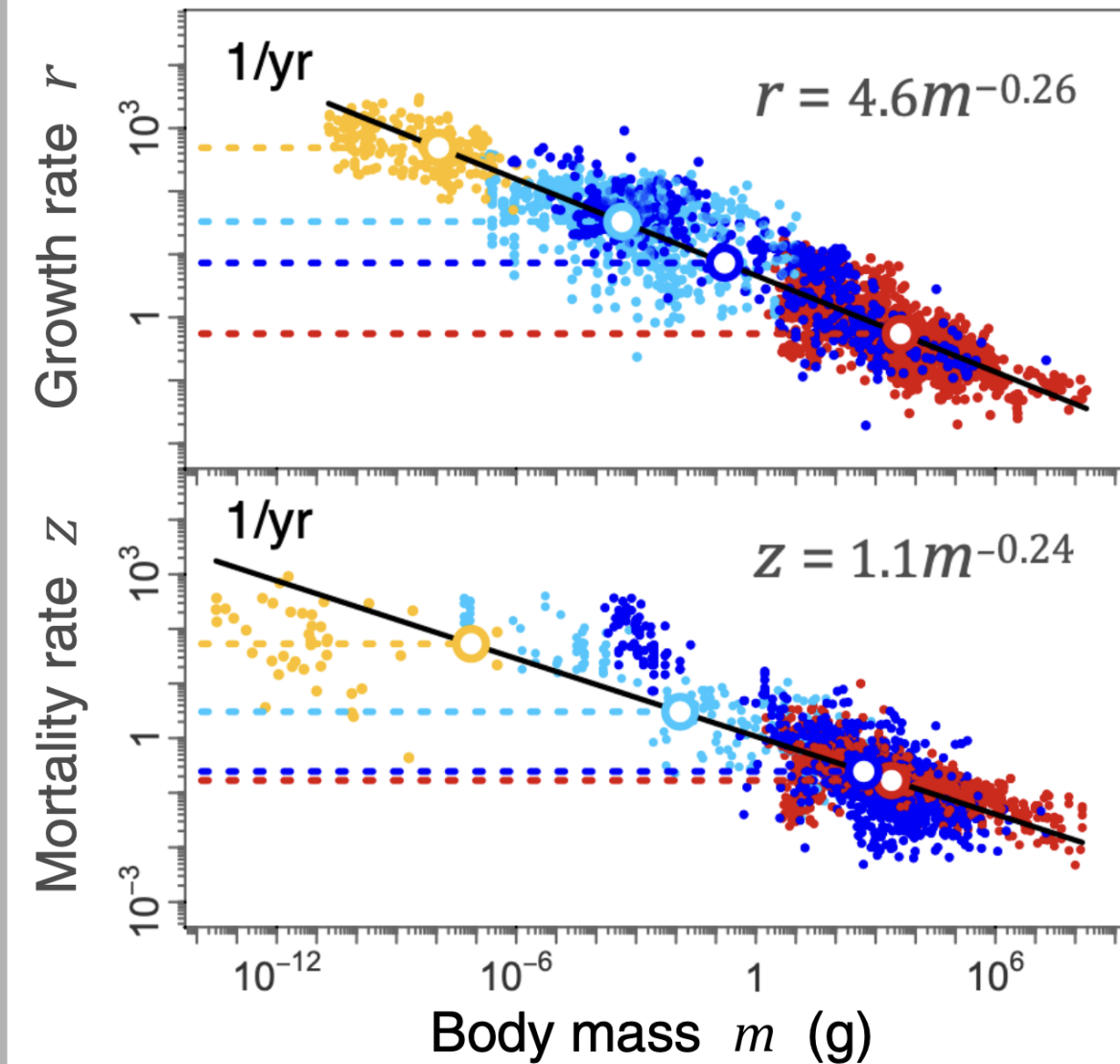


Model parameterization



Mammal



Phytoplankton

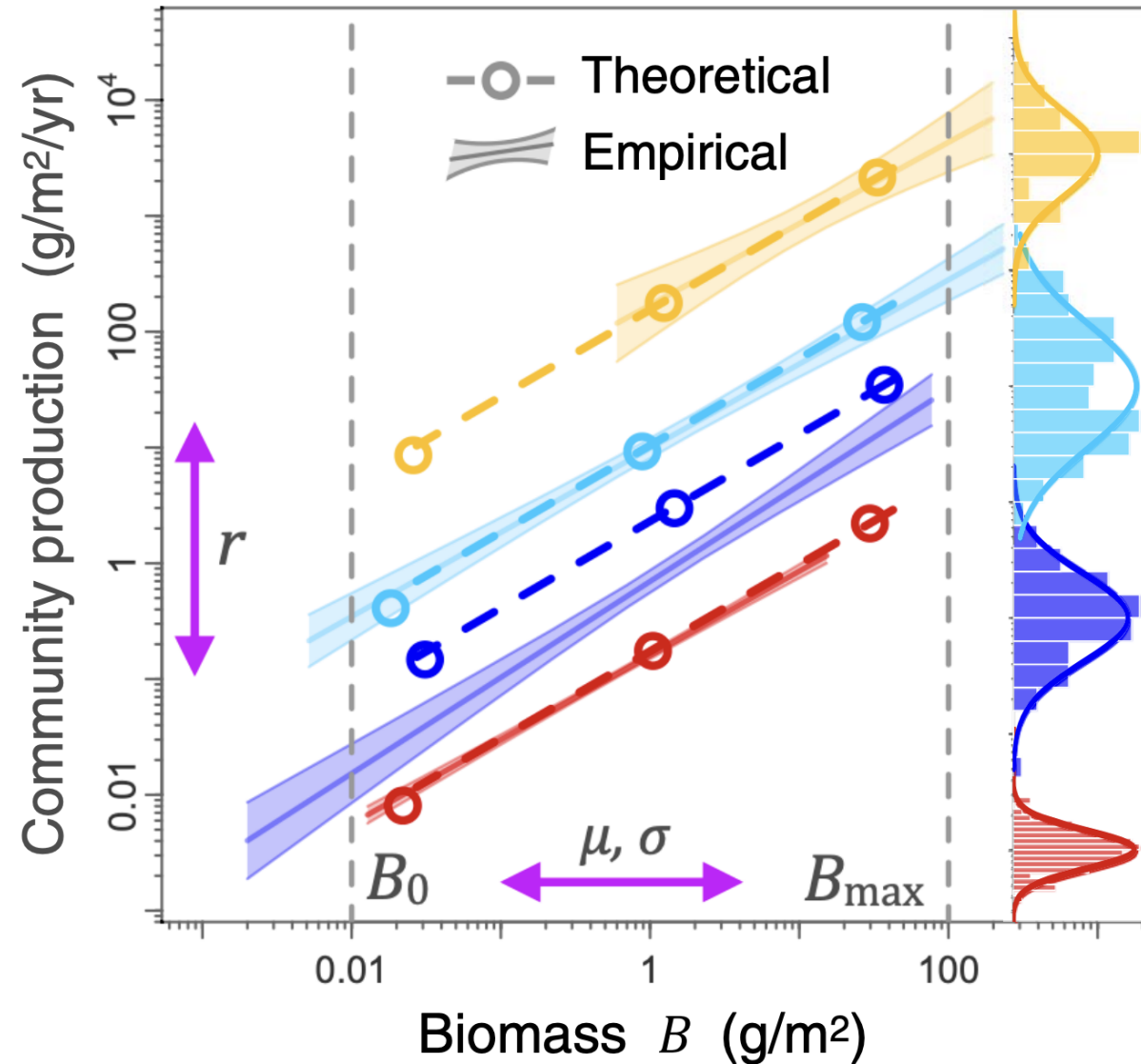


Invertebrate

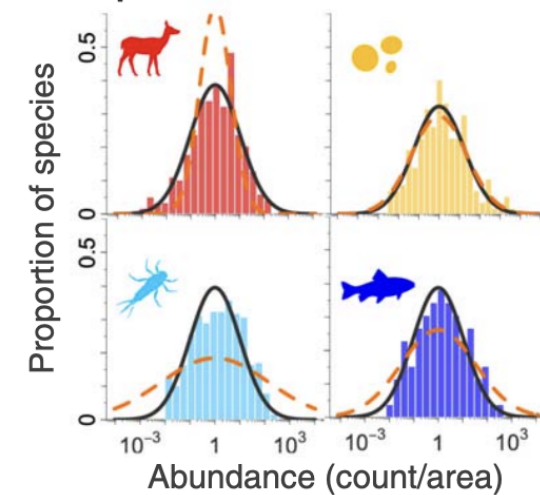


Fish

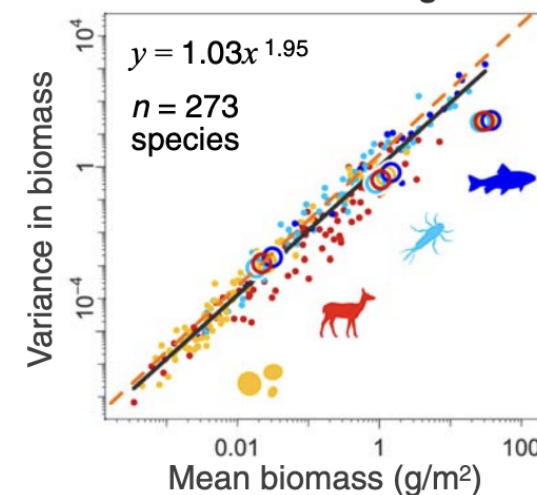
Predicting community production



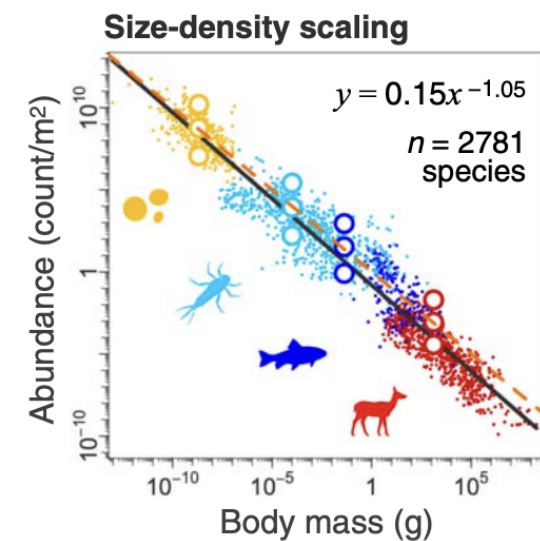
Species abundance distribution



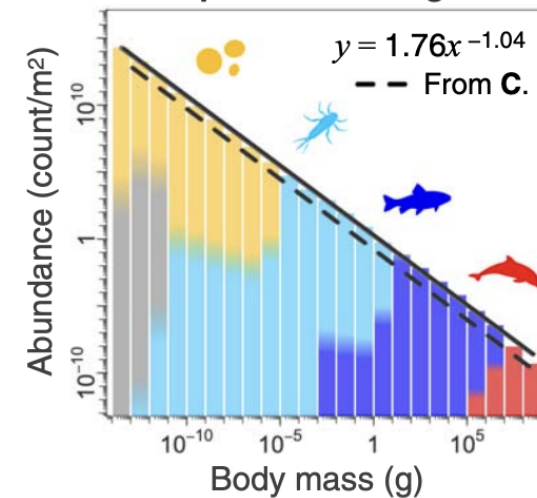
Mean-variance scaling



Abundance – body size



Size-spectrum scaling



— Empirical relation

--- Model prediction

○ Cavity point solution