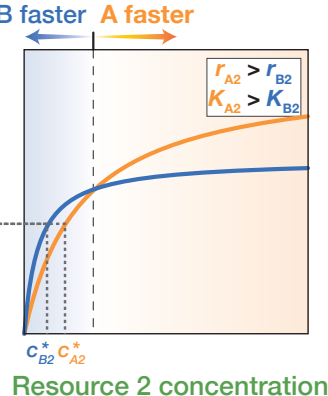
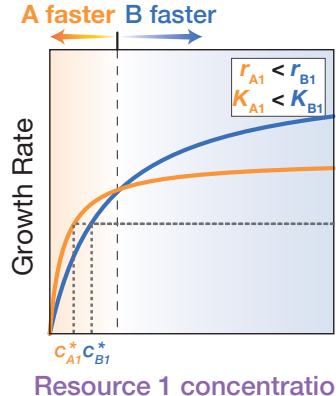
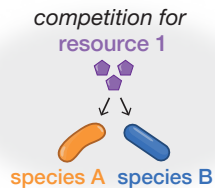
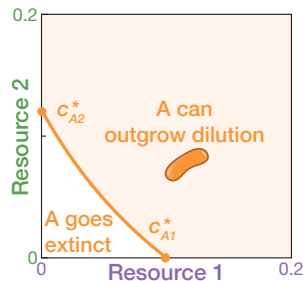


a



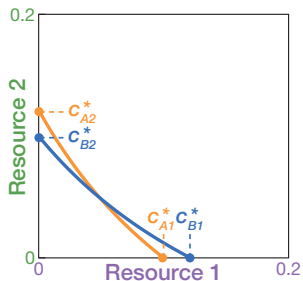
b

1 species grown on 2 resources



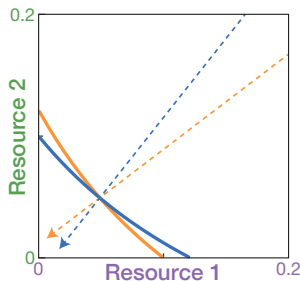
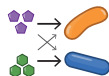
ZNGIs define resource levels where growth = dilution rate

competition w/ 2 resources, 2 species



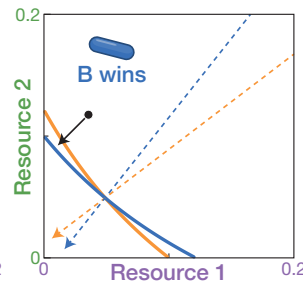
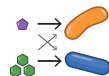
the shape of each species ZNGI depends on its growth rate curve

each species consumes different amount of each resource



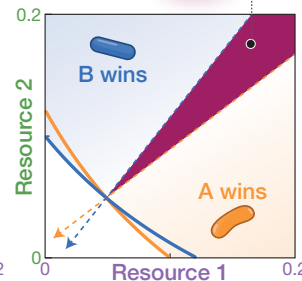
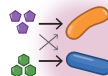
when species consume resources, they reduce nutrient concentration along their consumption vector

competition when providing different ratio of resources



resource consumption can cause nutrient levels to drop below ZNGI, causing one species goes extinct

COEXISTENCE



coexistence region defined where consumption can lead to ZNGI intersection, bounded by consumption vectors