Diverse polarity modes within Ascomycota

Saccharomyces cerevisiae

Ashbya gossypii

Candida albicans

Neurospora crassa

Aspergillus nidullans

Aureobasidium pullulans

Schizosaccharomyces pombe
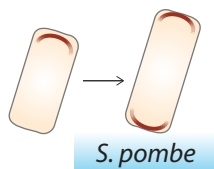
Basidiomycota
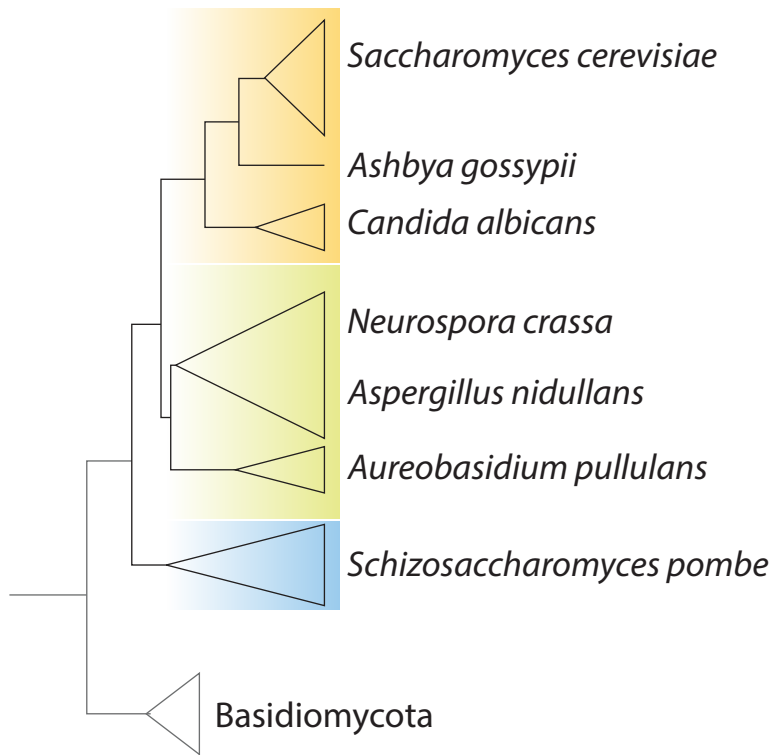
Theoretical framework: Mass-Conserved Turing Systems

Coexistence

Splitting

Equalization

Competition

parameter a

parameter b

Uni-polar budding

S. cerevisiae/C. albicans

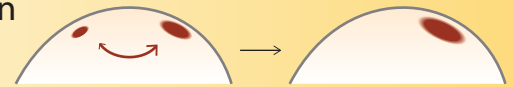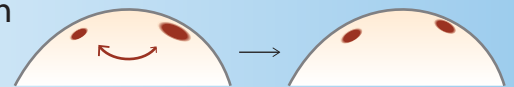New End Take Off

S. pombe

Apical branching

A. gossypii/N. crassa
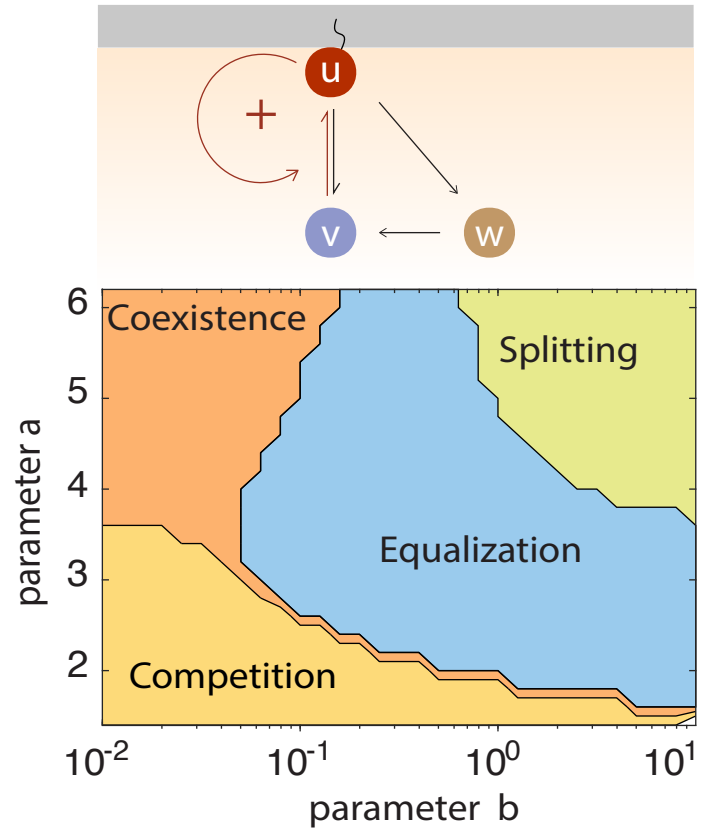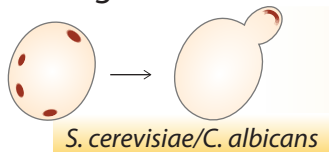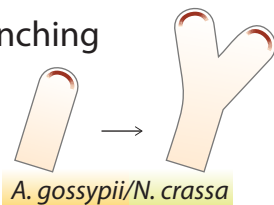
● Cdc42

A. Competition

B. Coexistence

C. Equalization

D. Splitting