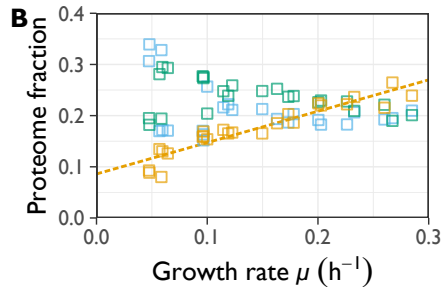
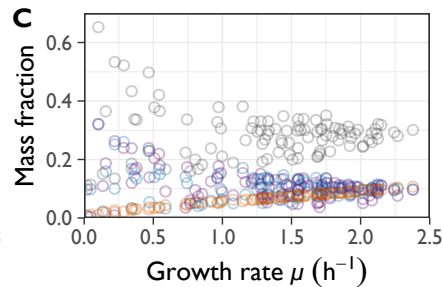


- Protein
- ribosome R
 - respirofermentative enzyme E_{Af}
 - purely respiratory enzyme E_{Ar}
 - nitrogen uptake E_N
 - carbon uptake E_C



- Coarse-grained equivalent
- ribosome R
 - amino acid synthesis E_A
 - carbon uptake E_C



- Metabolite
- total
 - carbon c
 - amino acid a
 - nitrogen n

