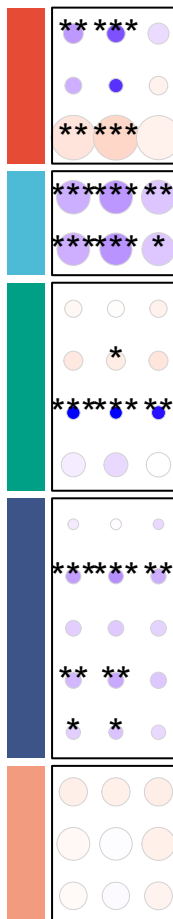


Crotonoyl-CoA->
 Butyryl-CoA->
 Butyrate
 Pyruvate->
 Acetyl-CoA->
 Butyrate
 Succinate
 (4aminobutyrate)->
 Butyrate

Glutarate->
 Butyrate

Lysine->
 Butyrate



Module
 Patient
 Short
 Long
 Guo
 Rajmakers