## comparison of mass spectrometry measurements with literature datasets © Li et al. 2014 ₱ Mori et al. 2021 ★ Peebo et al. 2015 ◎ Schmidt et al. 2016 ◎ Soufi et al. 2015 ◊ Valgepea et al. 2013 O This Study Caglar et al. 2017 (B) (D) 0.7 0.7 0.30 COG: Info. Storage & Processing COG: Processes & Signaling <u>5</u>0.08 COG: Metabolism teome mass fract 0.0 60.0 mass frac COG: Other <sub>+</sub>00 0.10 0.05

© Caglar et al. 2017 © Li et al. 2014 Ф Mori et al. 2021 ★ Peebo et al. 2015 © Schmidt et al. 2016 © Soufi et al. 2015 ◊ Valgepea et al. 2013 O This Study (G)

0.00

0.25

membrane proteome partition 0.10 0.10 0.05

0.00

growth rate [hr-1]

growth rate [hr-1]

0.00

0.150

0.136 barition 0.125 0.100

proteor 0.075 .≓0.050 <u>se</u>0.025

0.000

(H)

growth rate [hr-1]

growth rate [hr

△ Basan et al. 2015 ## Bremer & Dennis 2008

Dai et al. 2016

▶ Li et al. 2018

★ Mori et al. 2017

■ Wu et al. 2021

You et al. 2013

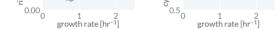
o Zhu & Dai 2019

Scott et al. 2010 △ Si et al. 2017

Brunschede et al. 1977

Erickson et al. 2017

Forchhammer & Lindahl 1971



0.1

cytoplasmic proteome partition

(F)

0 0

comparison of mass spectrometry allocation and partitioning measurements with literature datasets

growth rate [hr

0.1

0.35

uiposomal broteome allocation 0.25 0.10 0.10

growth rate [hr-1]

△ Basan et al. 2015

growth rate [hr-1]

(M)

total RNA [fg / cell]

1000

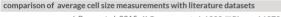
800

600

400

200

0

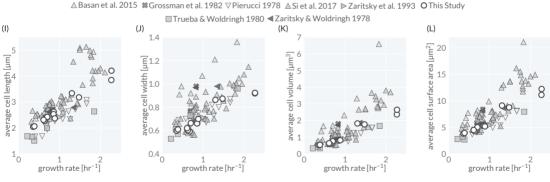


(N)

cell 400

total protein [fg/ 200 100

0



comparison of bulk compositional measurements with literature datasets

growth rate [hr-1]

Neidhardt et al. 1992 Chohji et al. 1976 ★ Dennis & Bremer 1974 ♦ This Study Bremer & Dennis 2008 ▶ Churchward et al. 1982 ■ Dennis & Bremer 1987

(Ov)

0.6

0.5 0.4

8NA-to-1

0.1

0.0

growth rate hr[-1]