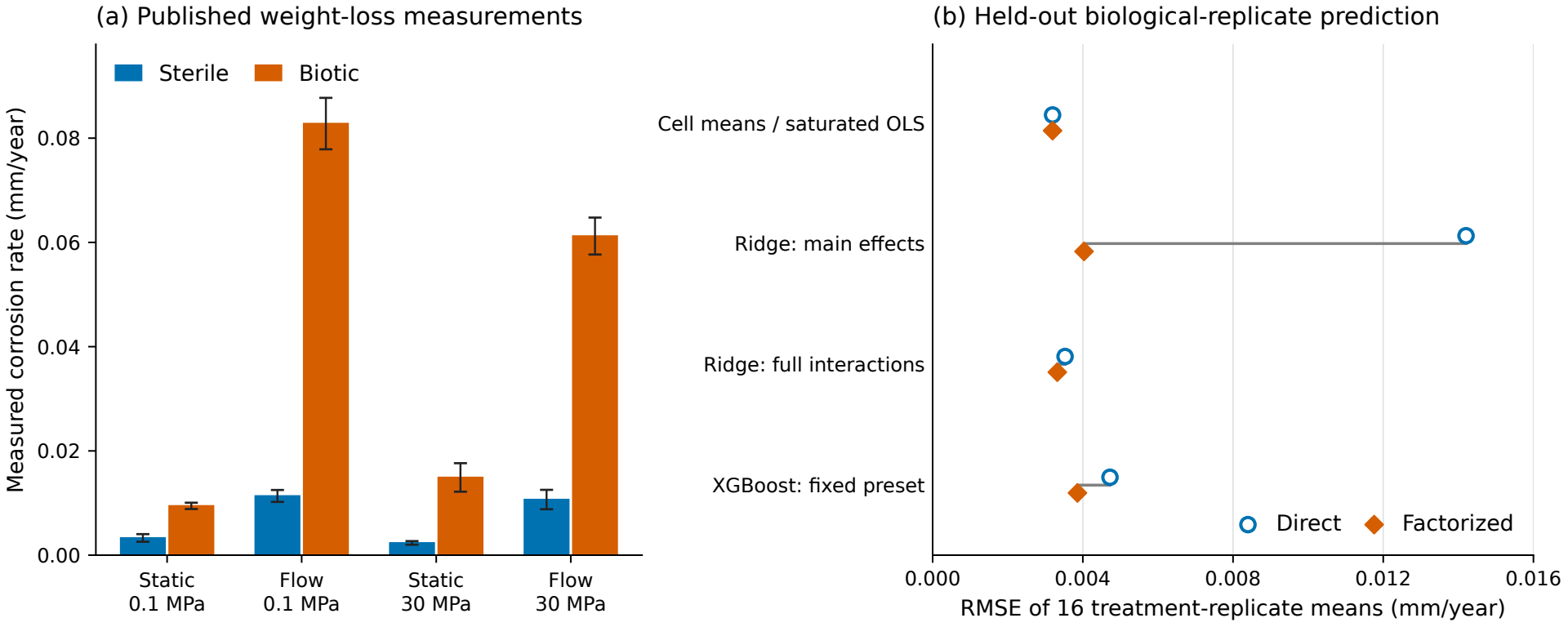

(a) Published weight-loss measurements
Sterile
Biotic
Measured corrosion rate (mm/year)
0.00
0.02
0.04
0.06
0.08
Static
0.1 MPa
Flow
0.1 MPa
Static
30 MPa
Flow
30 MPa
(b) Held-out biological-replicate prediction
Cell means / saturated OLS
Ridge: main effects
Ridge: full interactions
XGBoost: fixed preset
Direct
Factorized
0.000
0.004
0.008
0.012
0.016
RMSE of 16 treatment-replicate means (mm/year)