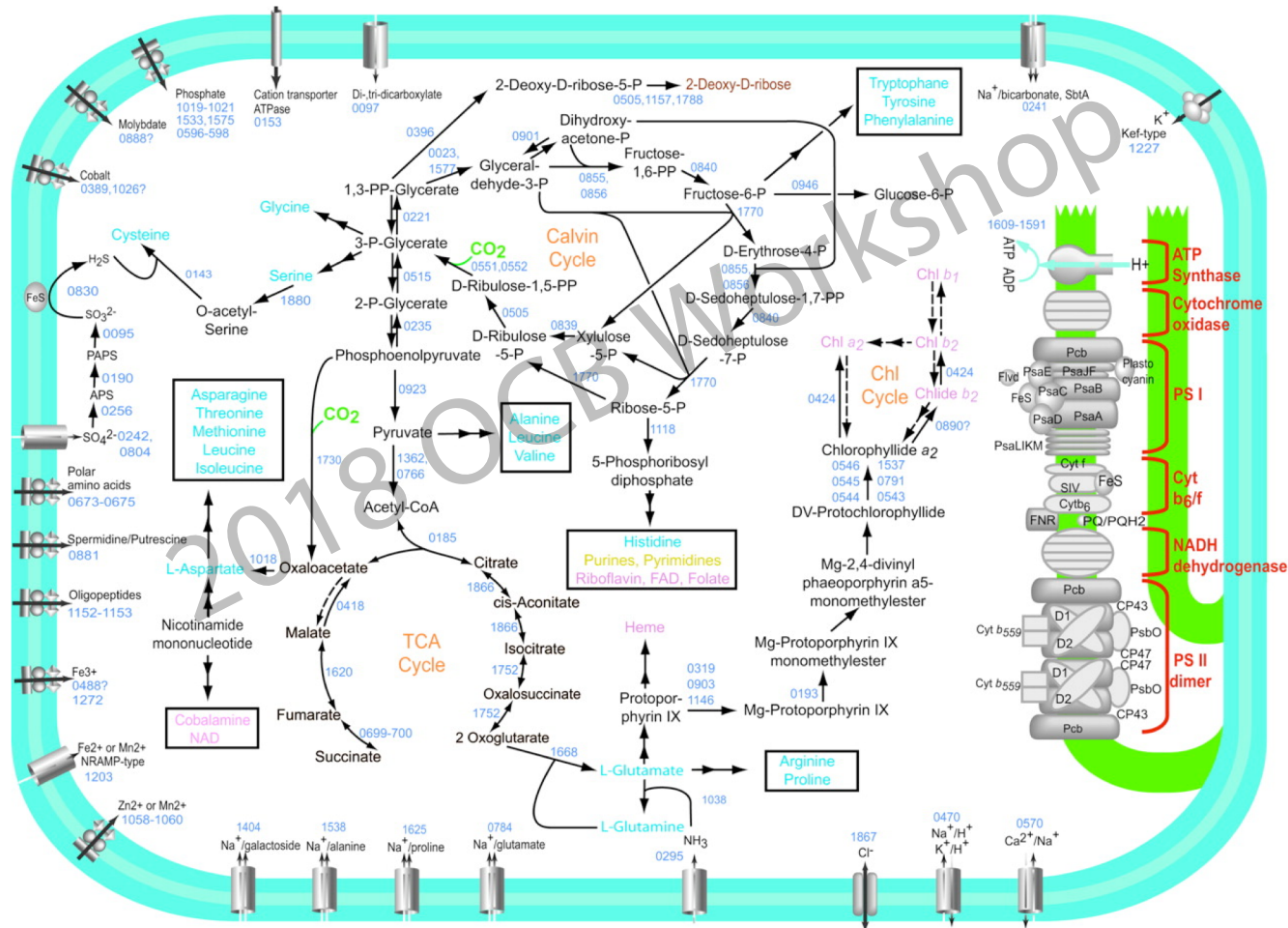


# Phytoplankton Physiological Engines of Biogeochemical Models

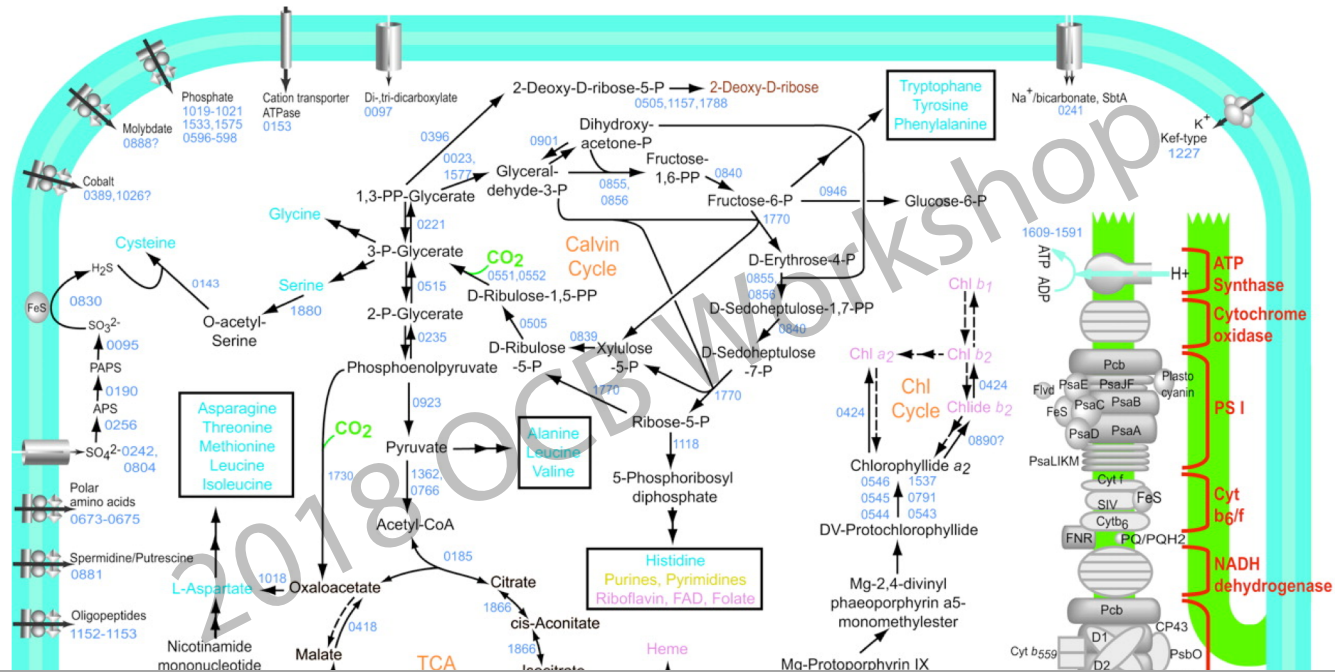
2018 OCB Workshop

# Phytoplankton Physiological Engines of Biogeochemical Models



Metabolic pathways for *Prochlorococcus marinus*, Dufresne et al. (2003)

# Phytoplankton Physiological Engines of Biogeochemical Models



How is it possible to model the population dynamics of such a complex organism in a dynamic environment?

# Phytoplankton Physiological Engines of Biogeochemical Models

2018 OCB Workshop

Richard Geider, University of Essex

“Modeling acclimation and adaptation of photosynthesis in microalgae and cyanobacteria”

Erin Bertrand, Dalhousie University

“Interactions matter: phytoplankton physiological responses to simultaneous (micro)nutrient limitations and multiple stressors”

Adam Martiny, UC Irvine

“Understanding and predicting the regulation of ocean C:N:P and export production”

Stephanie Dutkiewicz, MIT

“Physiological diversity matters: A modelling perspective”