

Best wishes for your research

Corindje

Rubisco: An Enzyme of Global Importance

Molecular forms of Rubisco and their function

Form I
L8S8
Anti-RbcL form I (Agrisera) AS03 037

Form II
 $(L2)_n$
Anti-RbcL form II (Agrisera) AS15 2955

Form III
L2, L8, L10
L8
Form IIIB
L2, L4, L6, L8, L10
Archaea
Bacteria

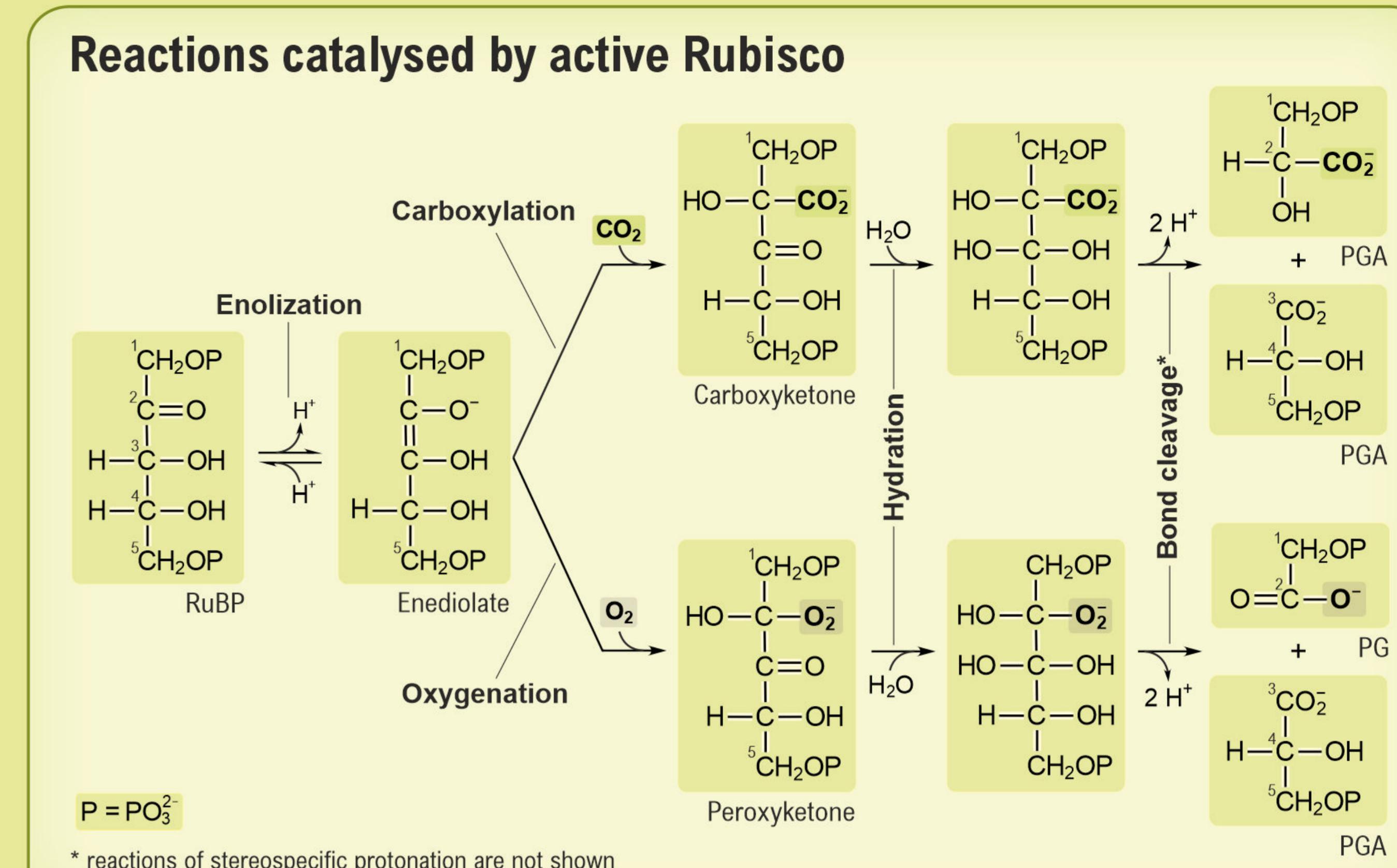
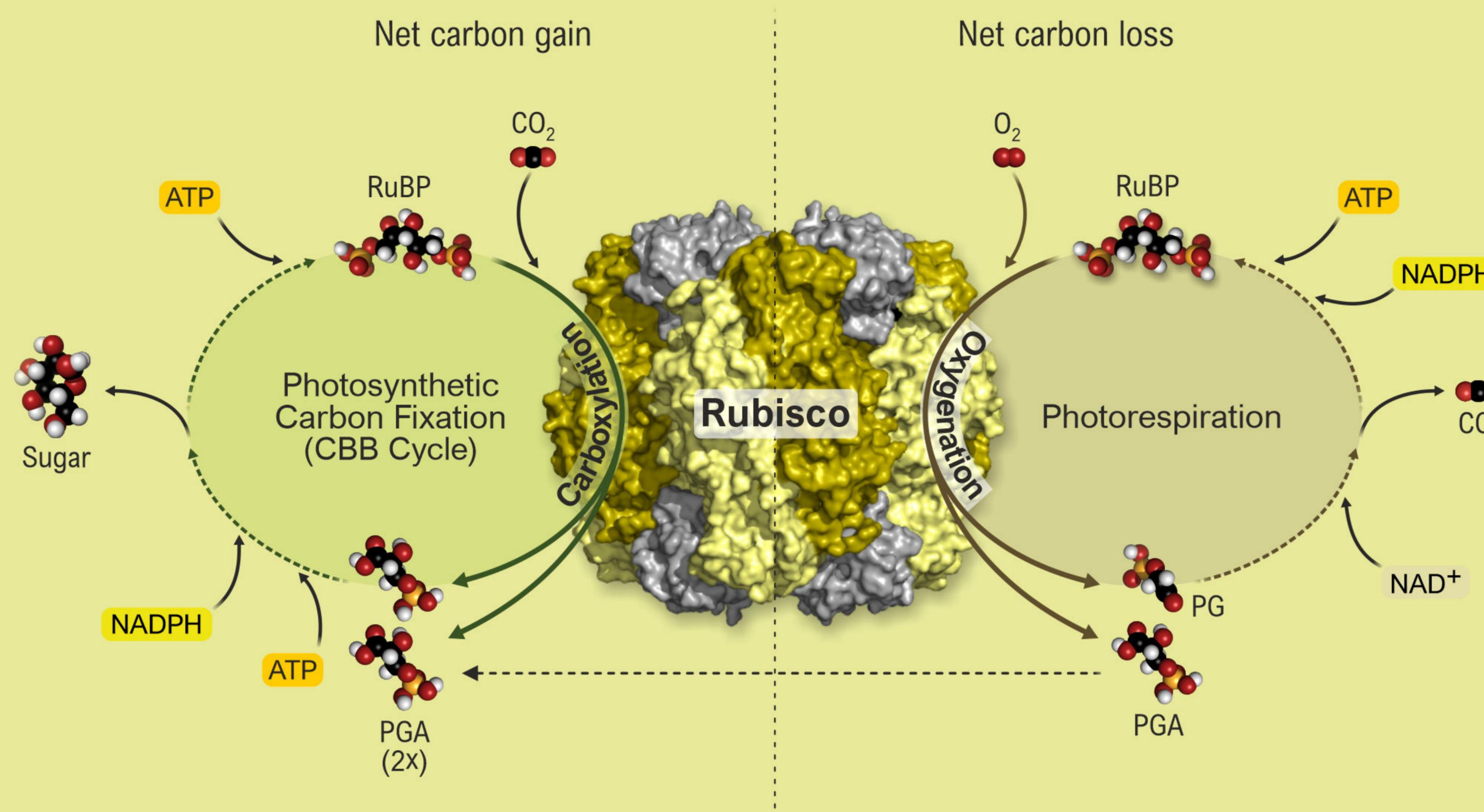
Form IV
(Rubisco-like proteins)
Bacteria
Archaea
Algae

Forms IA/IB
AB loop
Green-type RbcS
Proteobacteria
Cyanobacteria
Green algae
Plants

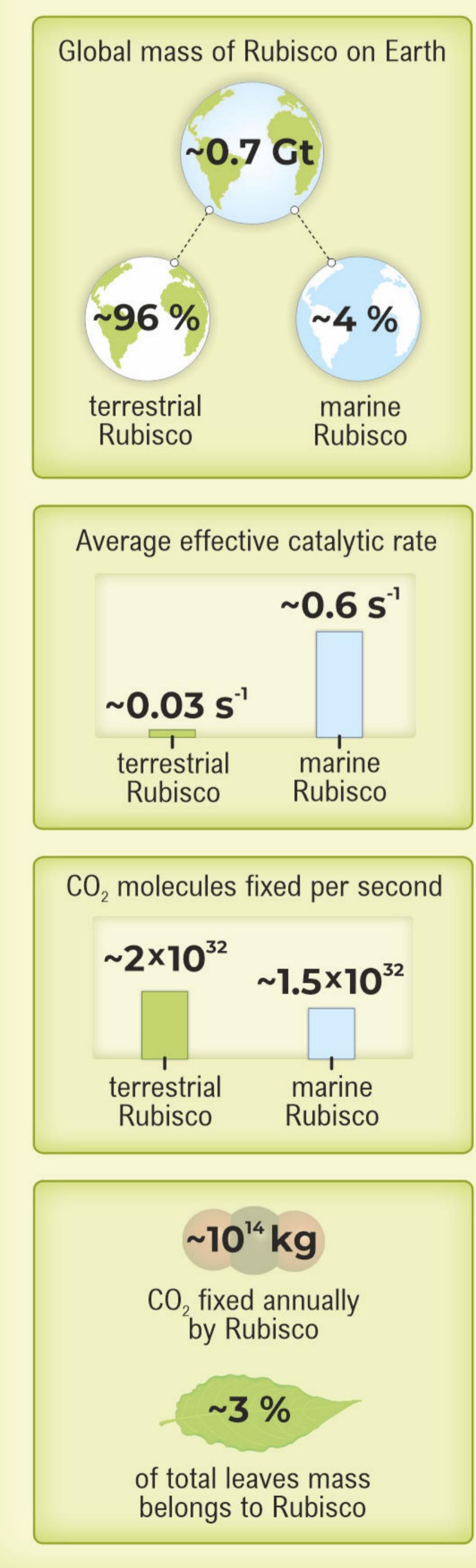
Forms IC/ID
EF loop
Red-type RbcS
Non-green algae
Proteobacteria
Dinoflagellates
Proteobacteria

Carboxylation (CO_2 fixation) and oxygenation
Photosynthetic function

RuBP regeneration
Non-photosynthetic function

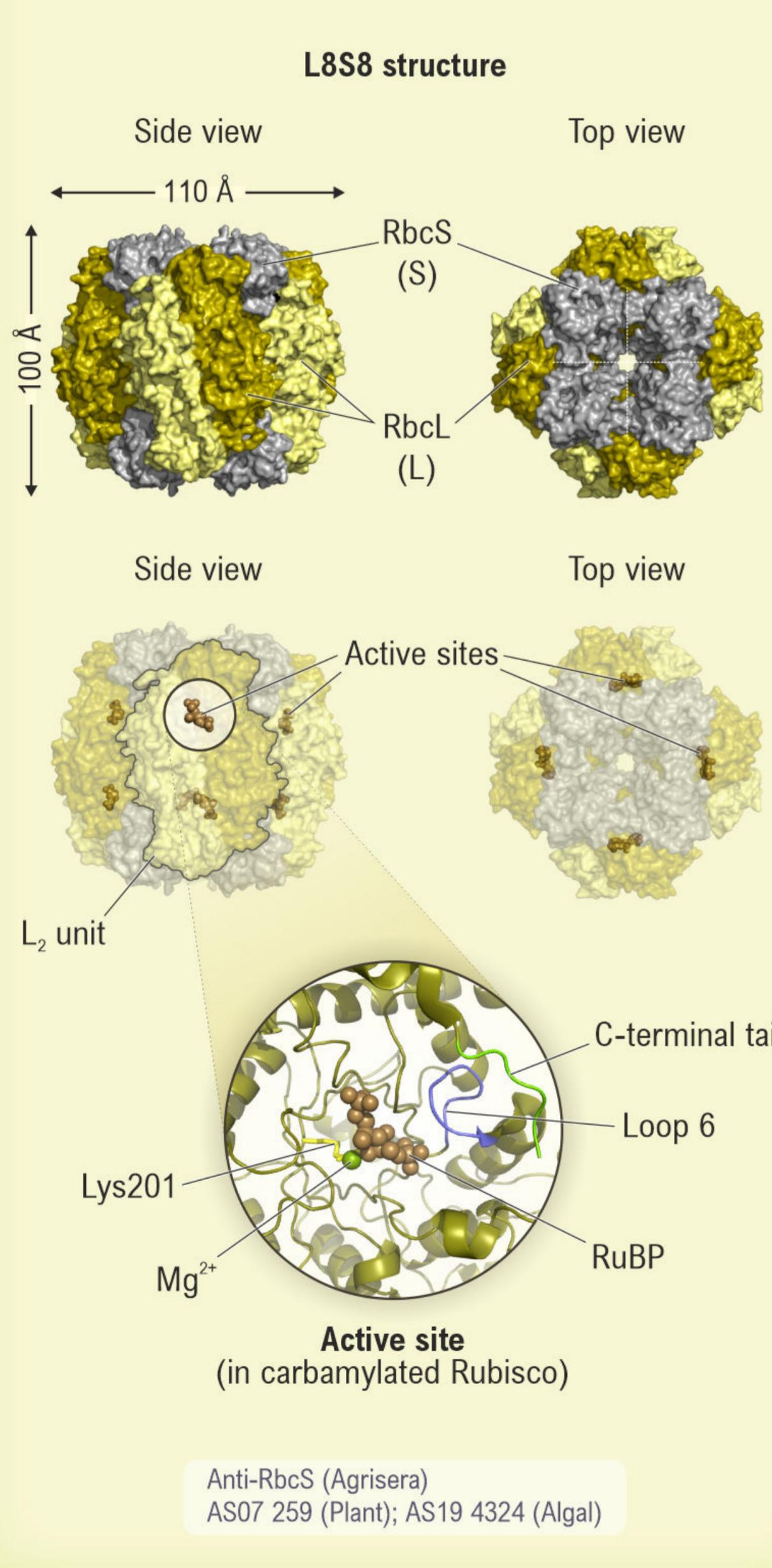


Some facts about Rubisco

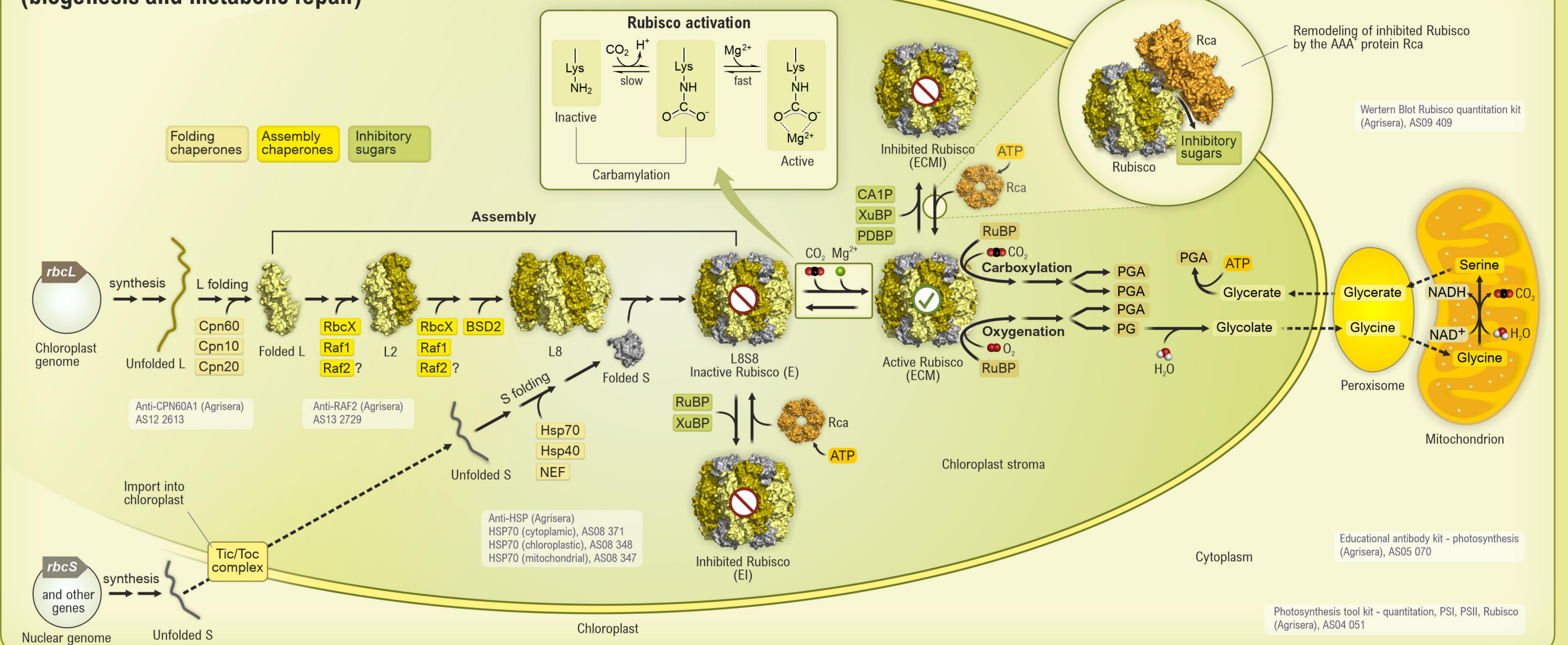


Structure of Rubisco (form I)

(most common in plants, cyanobacteria, and green algae)



How does Rubisco work in plants and green algae? (biogenesis and metabolic repair)



Agrisera Antibodies



www.agrisera.com/plant

Poster 4 - Rubisco: Enzyme of Global Importance, 2020 (updated 2023)

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Plant Meetings Calendar
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