

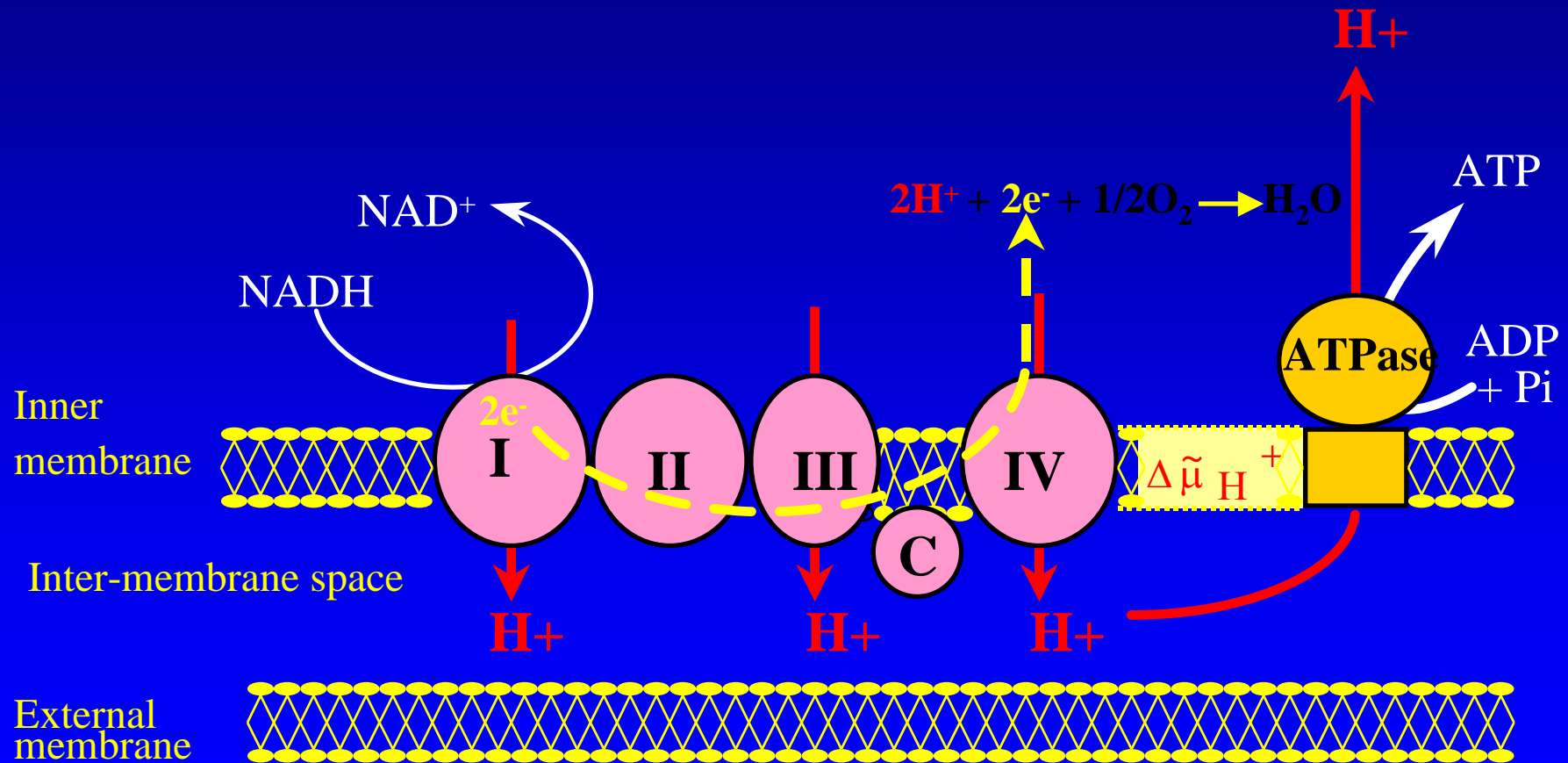


LA RÉGION

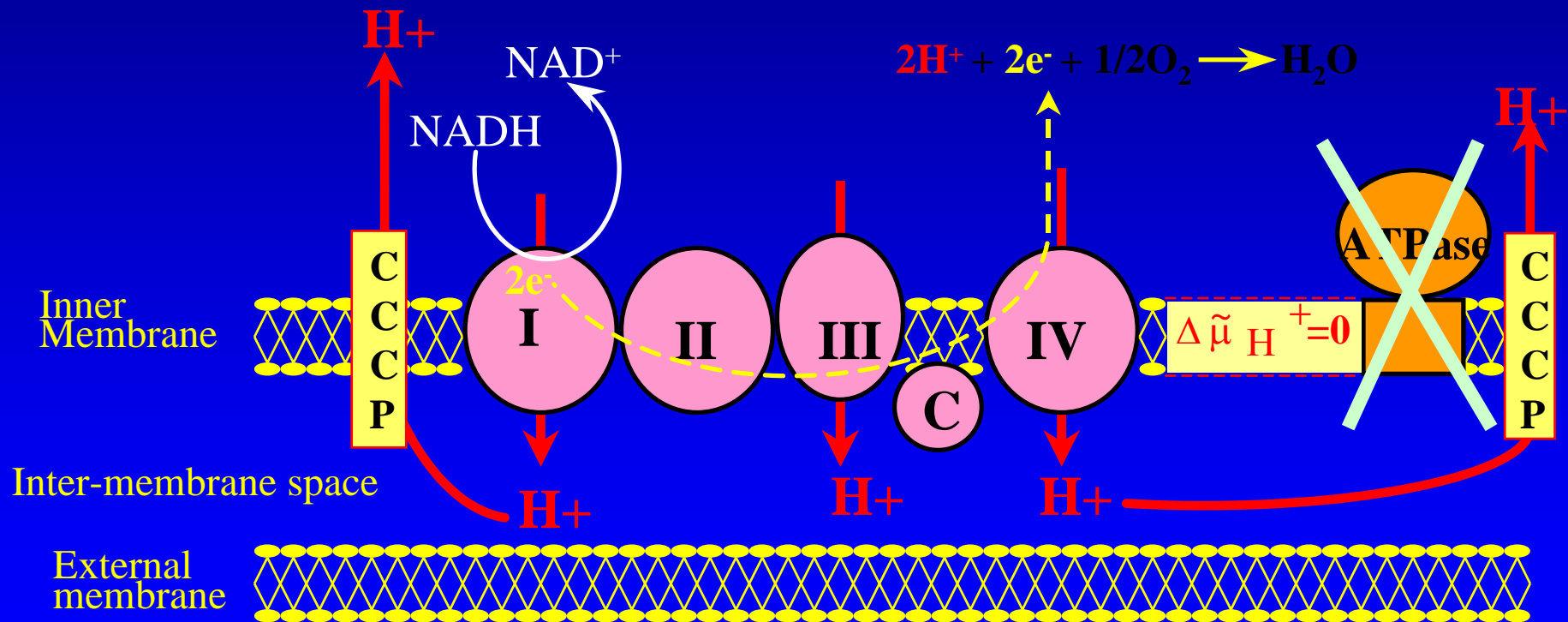
**Phytoplankton respiration
assessed by
flow cytometry.
Application to *Dunaliella
tertiolecta***

Gérald Grégori, Michel Denis & Dominique Lefèvre

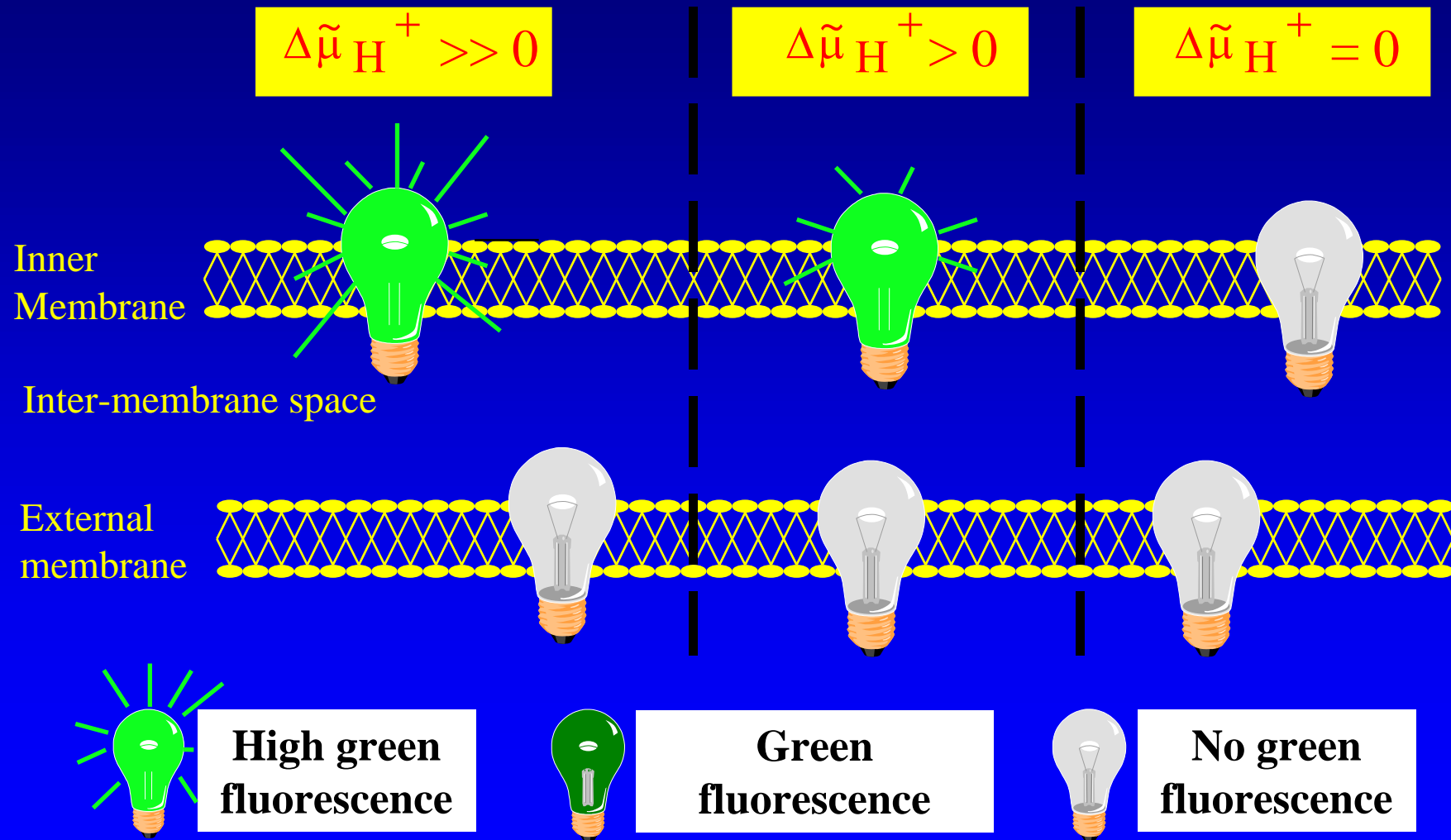
Scheme of the mitochondrial respiratory chain



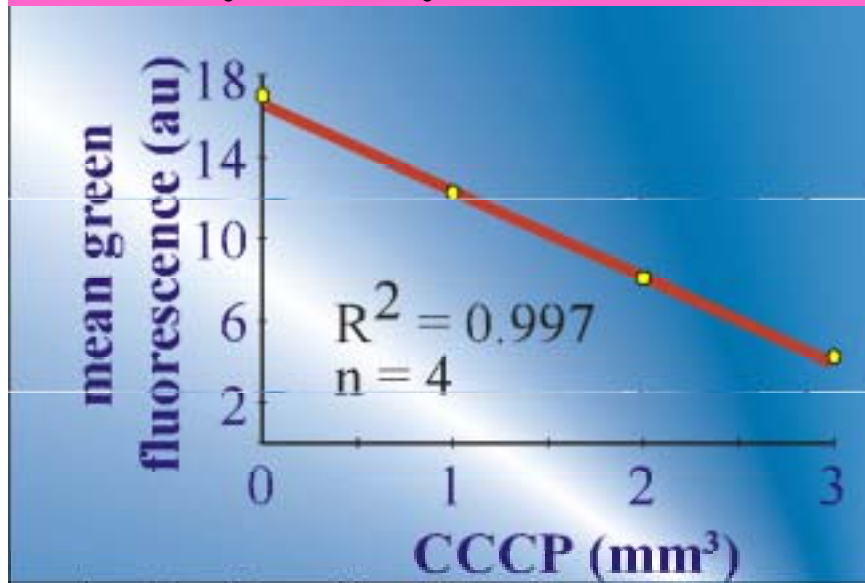
Uncoupling with CCCP



Principle of staining with DiOC₆ (3) :

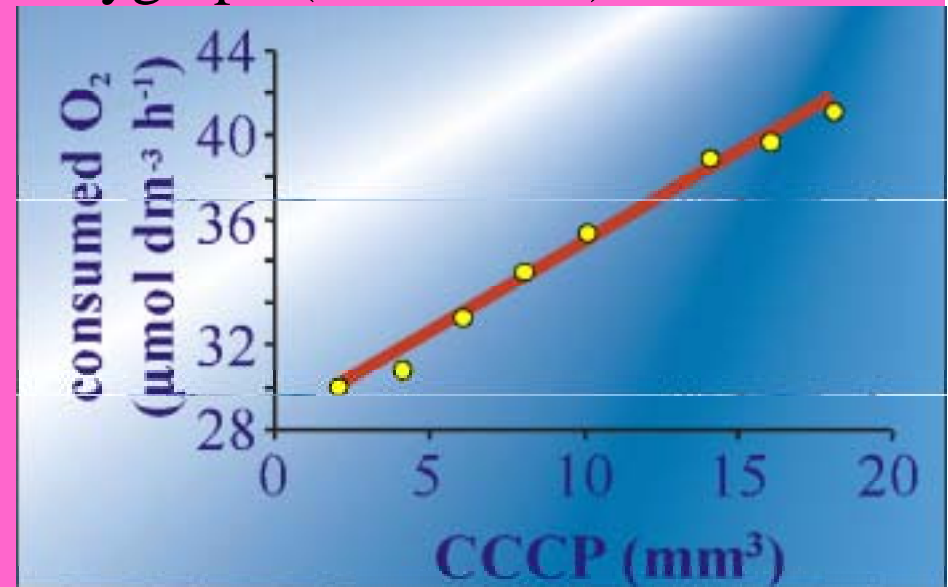


Measure of DiOC6(3)
induced green fluorescence
intensity of *D. tertiolecta* by
flow cytometry



Linear relationship between
CCCP concentration and mean
green fluorescence of *D.*
tertiolecta stained with
DiOC6(3)

Measure of *D. tertiolecta* specific
respiration with a high-resolution
oxygraph (in the dark)



Linear relationship between
CCCP and respiration rate of *D.*
tertiolecta

