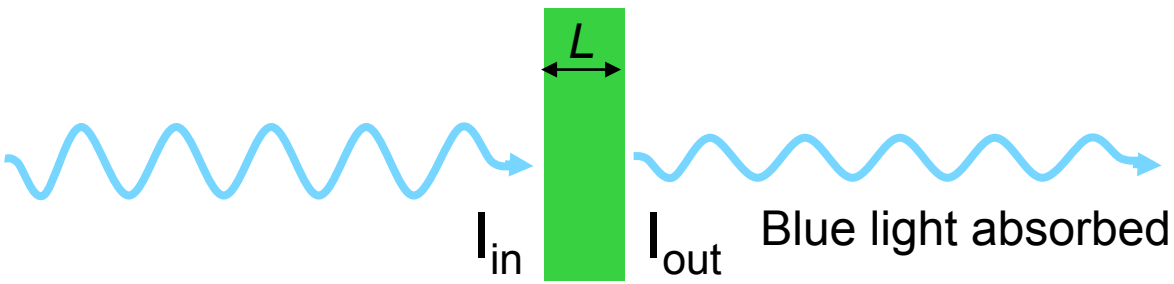
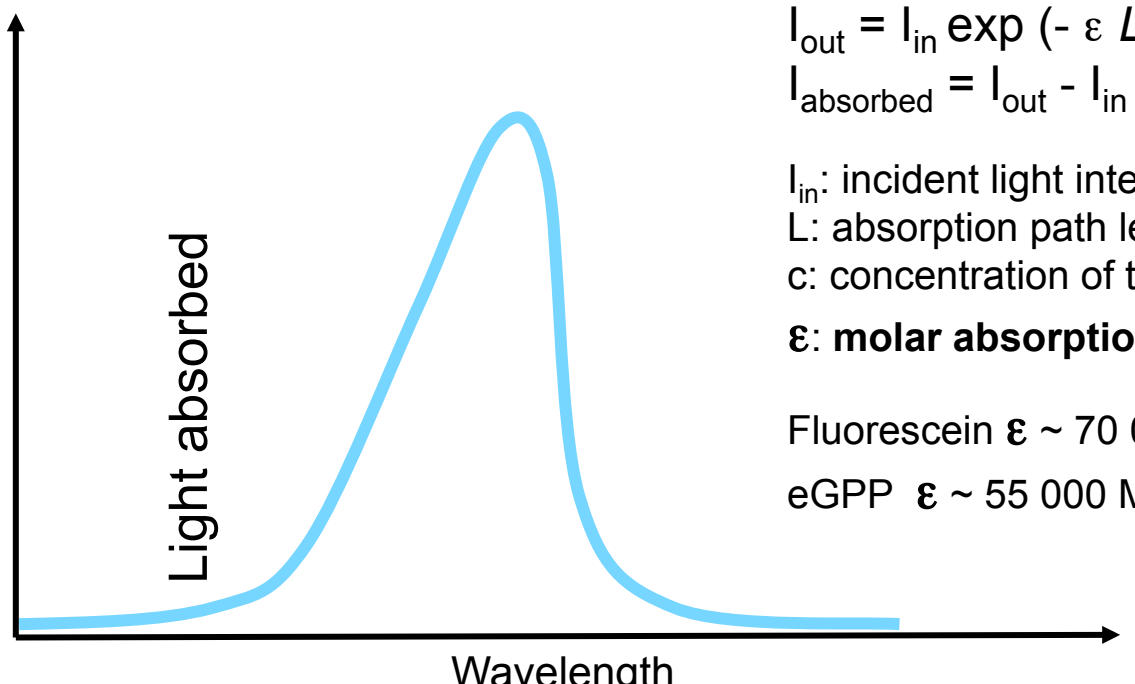
Fluorophore absorption

Green dye in cuvette





Beer-Lambert law

$I_{out} = I_{in} \exp(-\varepsilon L c)$

$I_{absorbed} = I_{out} - I_{in}$

I_{in}: incident light intensity (in $W.cm^{-2}$)

L: absorption path length (in cm)

c: concentration of the absorber (in M or $mol.L^{-1}$)

ε: **molar absorption coefficient** (in $M^{-1}cm^{-1}$ or $mol^{-1}.L.cm^{-1}$)

Fluorescein **ε** ~ 70 000 $M^{-1}.cm^{-1}$

eGPP **ε** ~ 55 000 $M^{-1}.cm^{-1}$