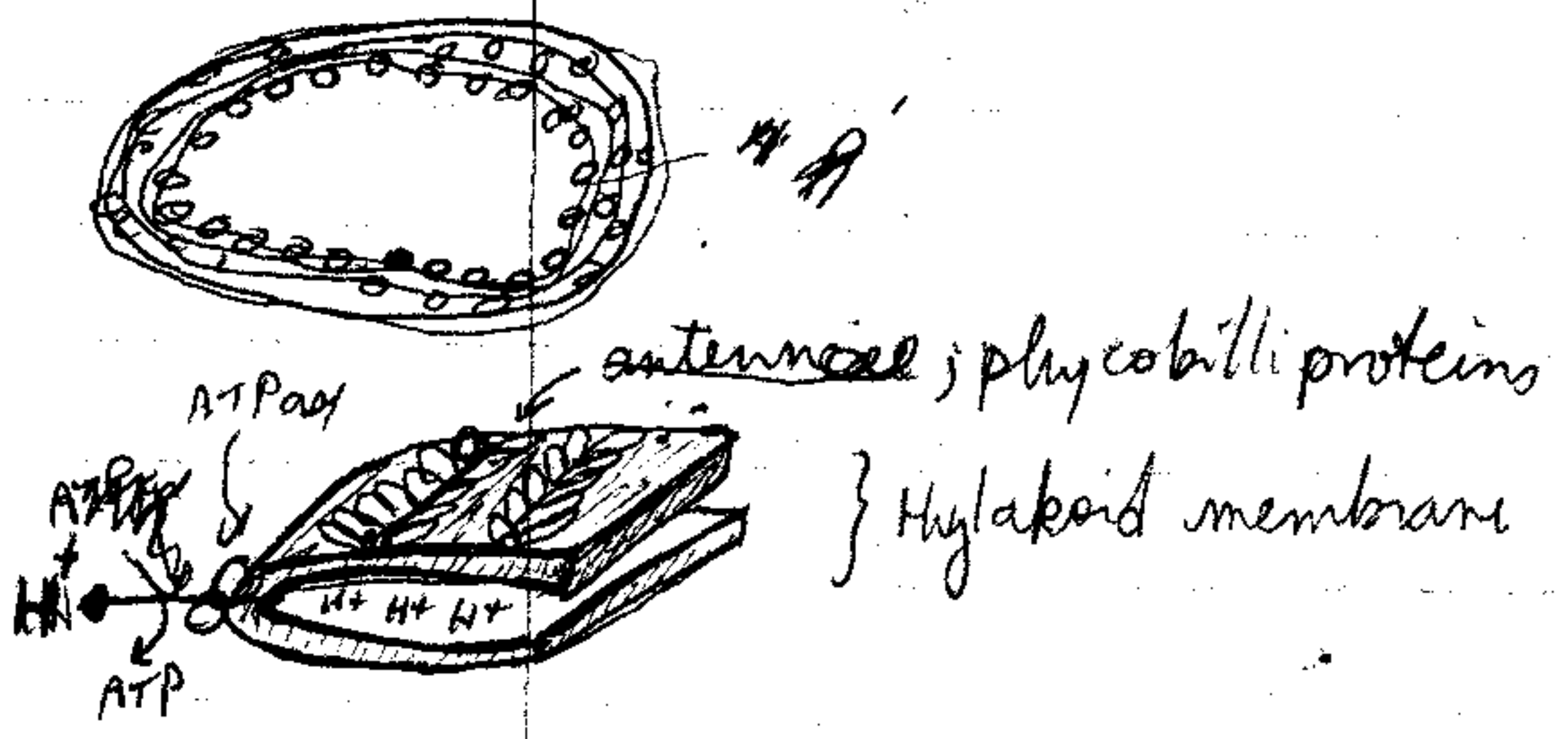


2/10/95

# A Glazer - Cyano Ps

Cyanobacterium ... can absorb red & green light  
 - all have chlorophyll 'a'  
 - vary in % of other phycobilisomes

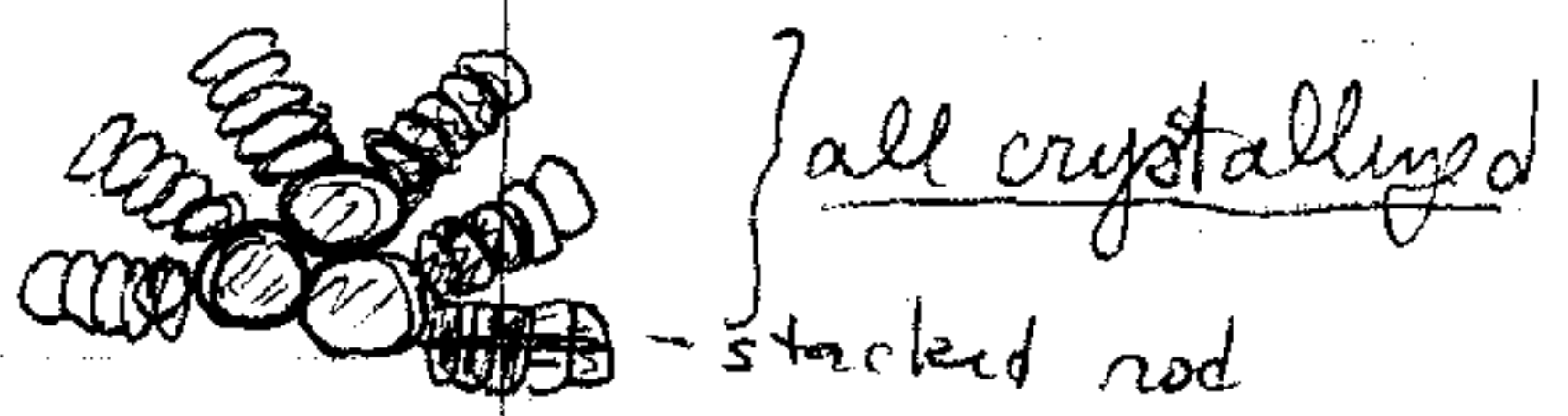


- each antenna  $\rightarrow 8 \times 10^6$  daltons

## Light absorption

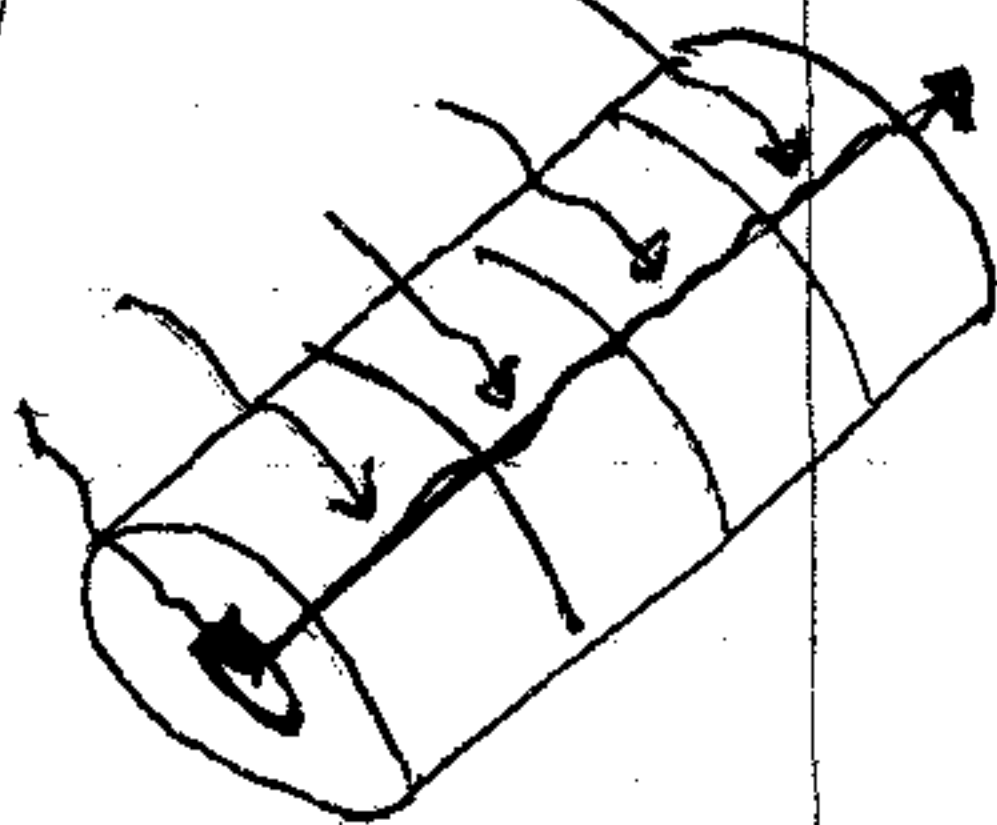
① - linear tetrapyrroles = bilins  
 - all isomers of each other (only differ in double bonds)

② depending on protein context of these bilins ... get diff. absorbing properties



- each rod has 5 bilins?

light gets focused in & then down rod



Marine cyanobacteria

adapted to light that gets through the

- diff 20 phycobilisomes
- diff bilins

Exchange of tetrapyrroles

① suggests it's due to breathing of protein

