



3. Why do the authors use  $H_2$  and  $O_2$  photoevolution as an assay?

Write out the reaction that produces  $H_2$ .

Which proteins are responsible for evolution of  $H_2$  and  $O_2$ ?

Is it a single reaction or 2 coupled reactions?

4. List the points from the paper that seem to support the authors' conclusions.

5. List any potential flaws you see in the paper. Given that you know the conclusion to be wrong (*trust me*), what do you think the critical flaw was?