

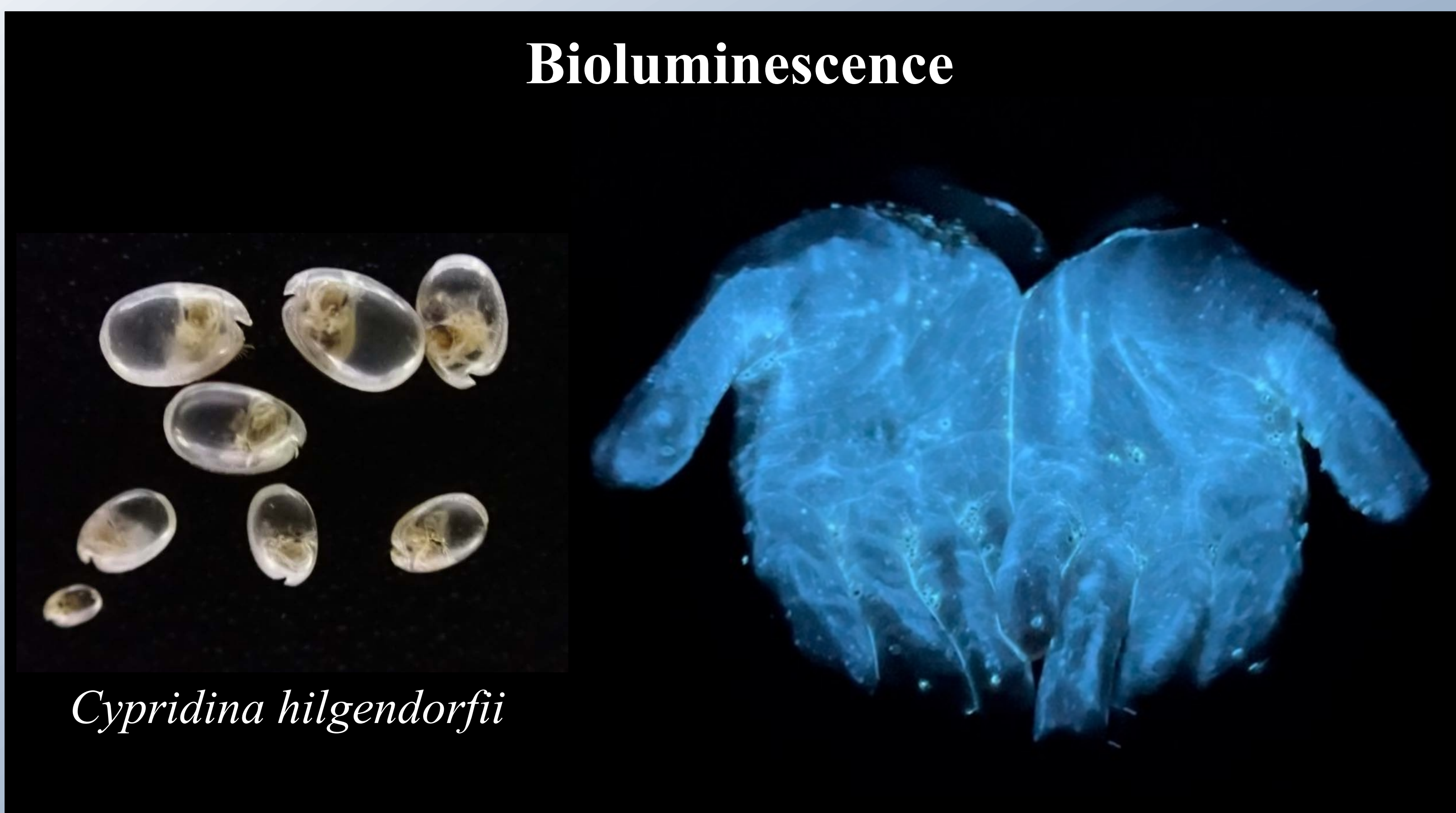
Development of a protein analysis technique using latent luciferase activity

Ryo Nishihara

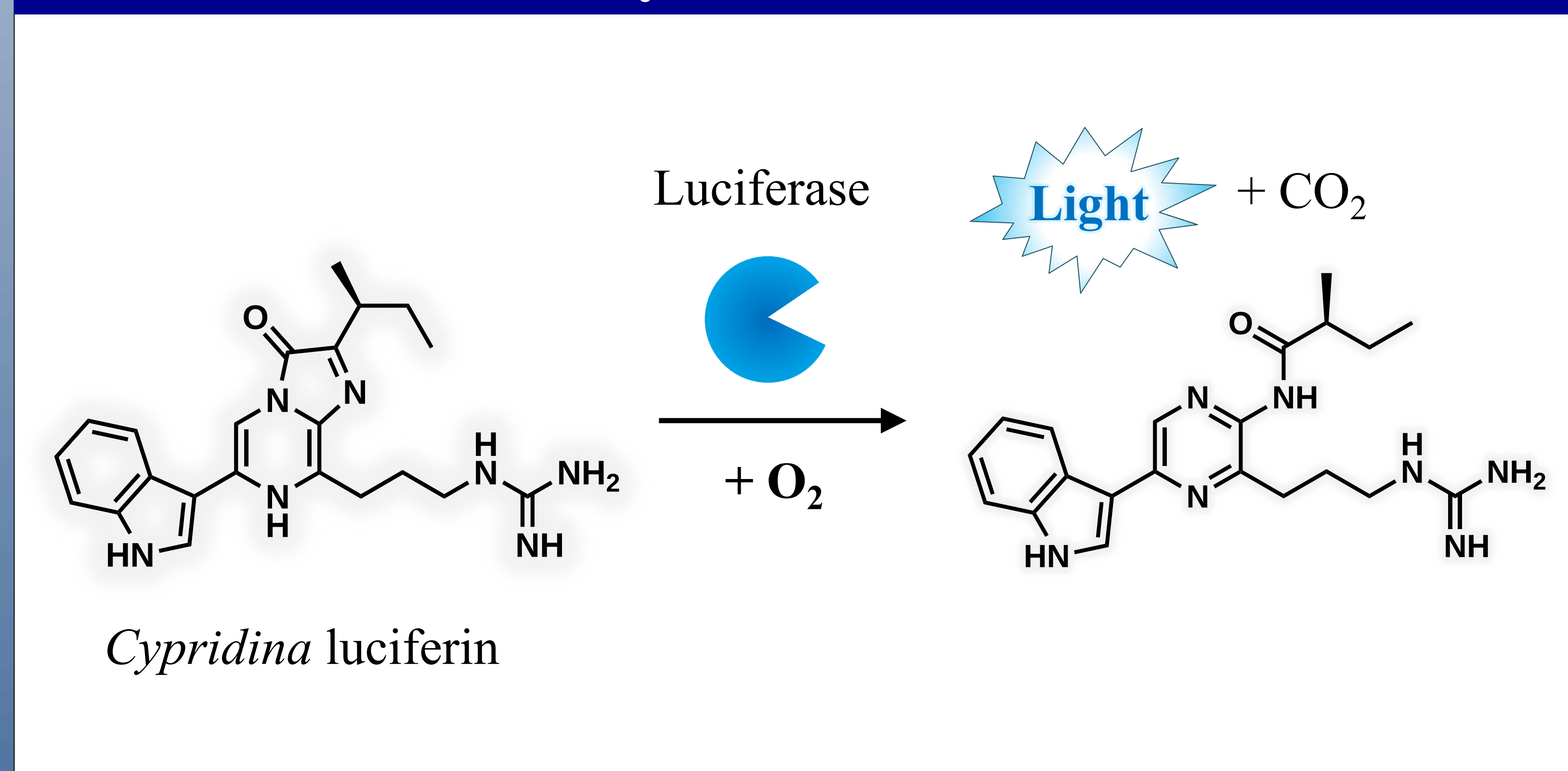
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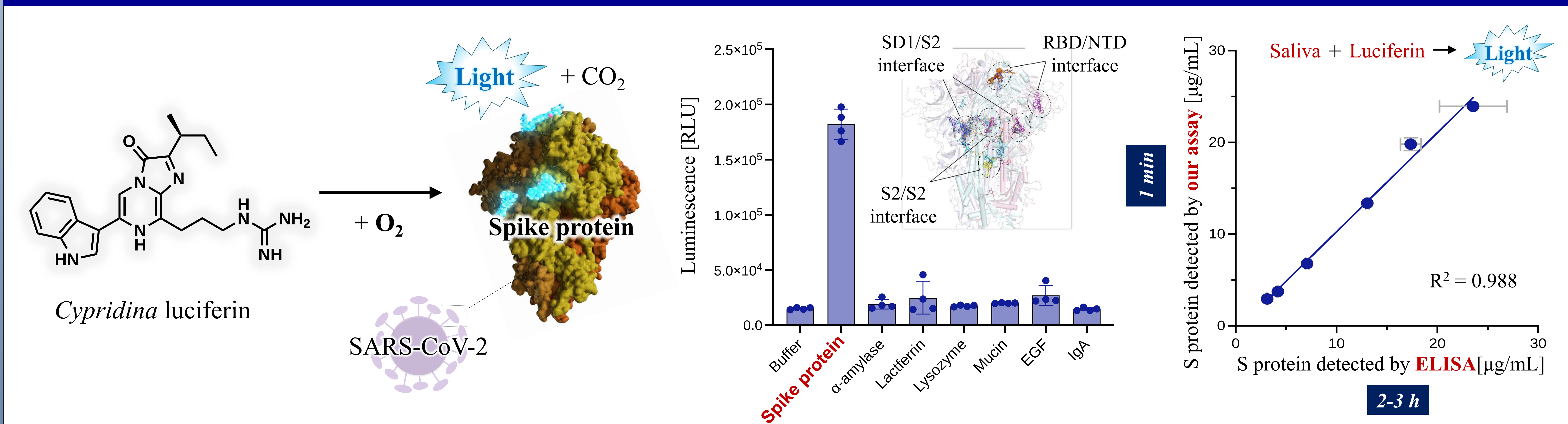
Bioluminescence



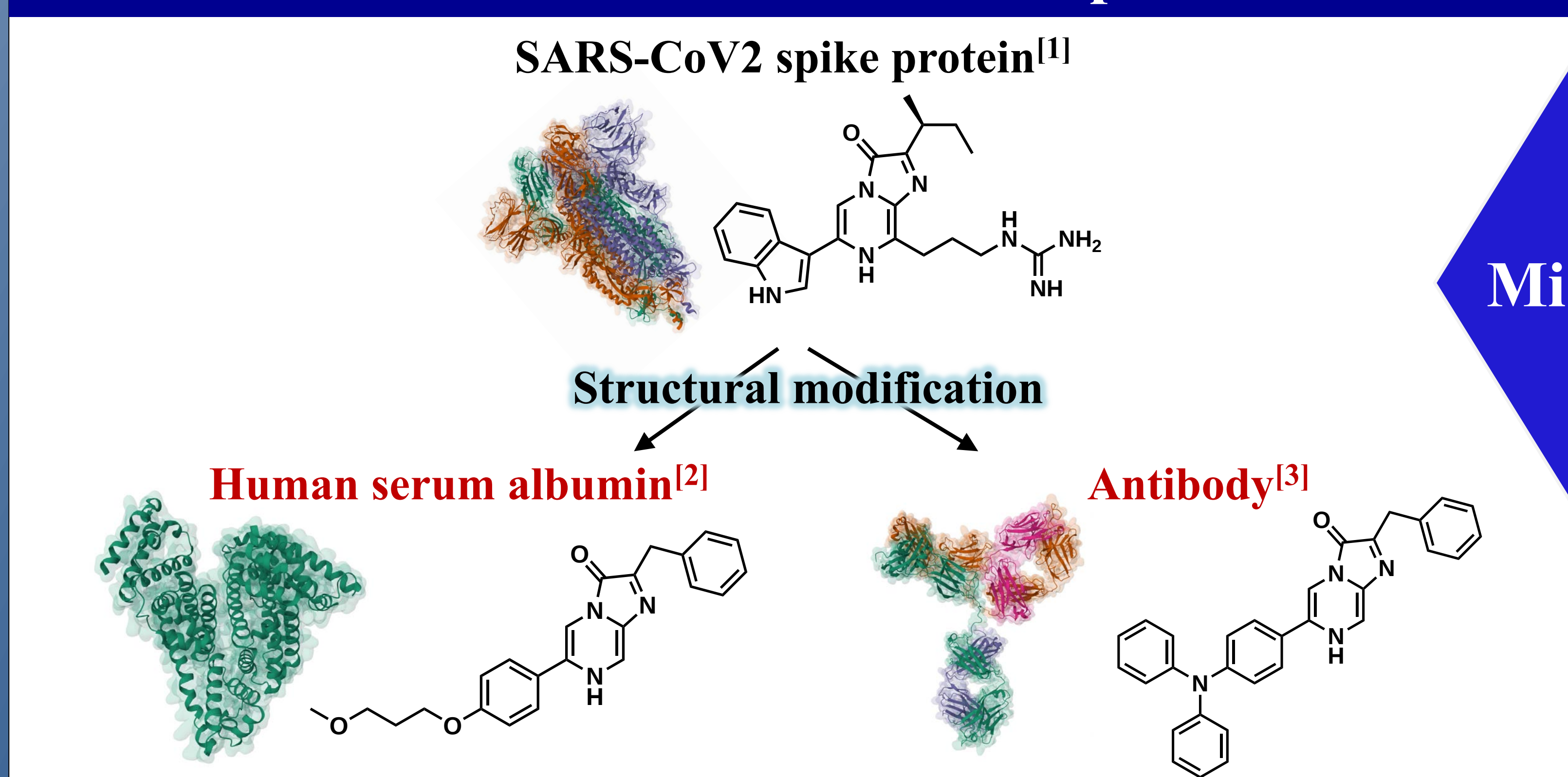
Enzymatic reaction



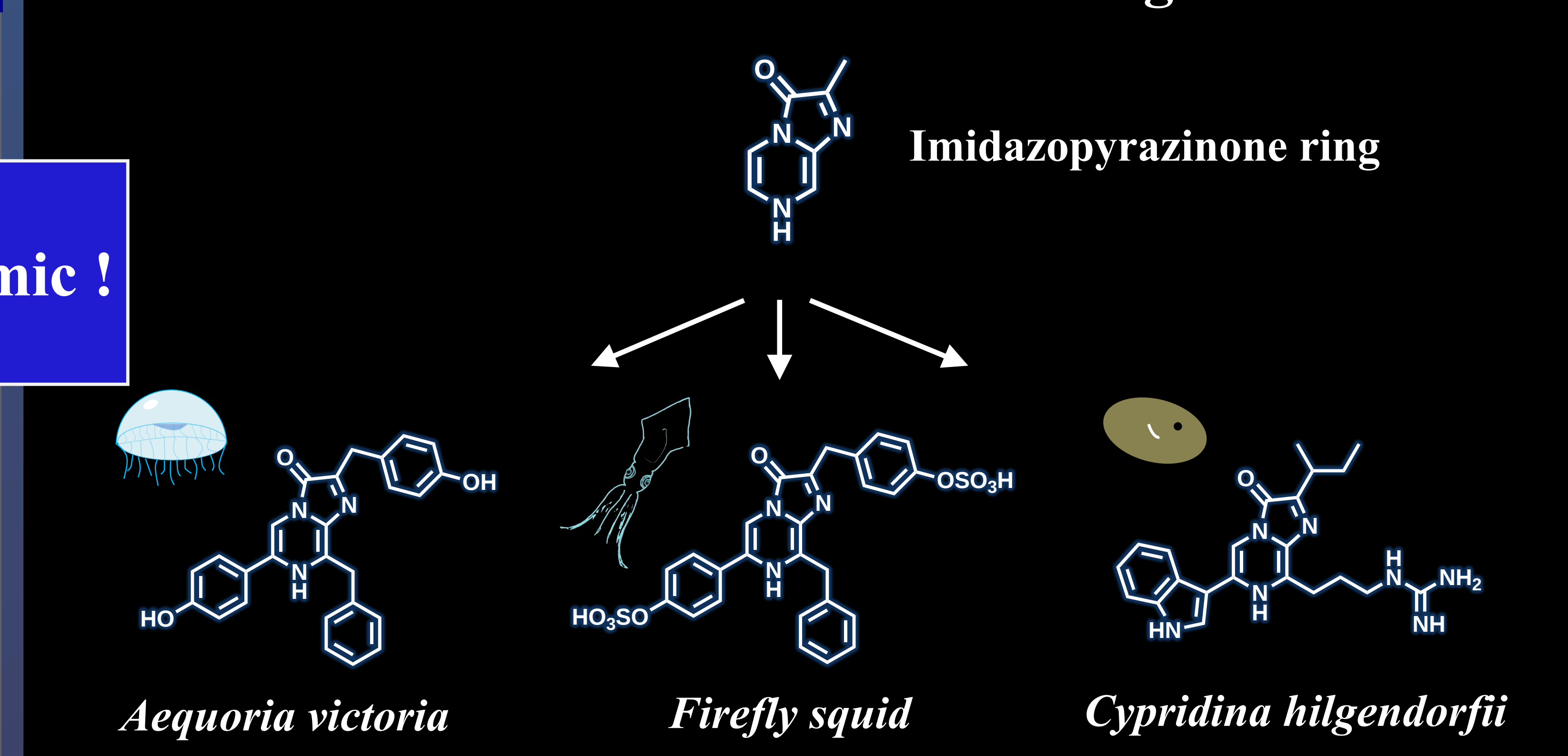
An enzymatic reaction with the SARS-CoV-2 spike protein and its application for quantitative analysis



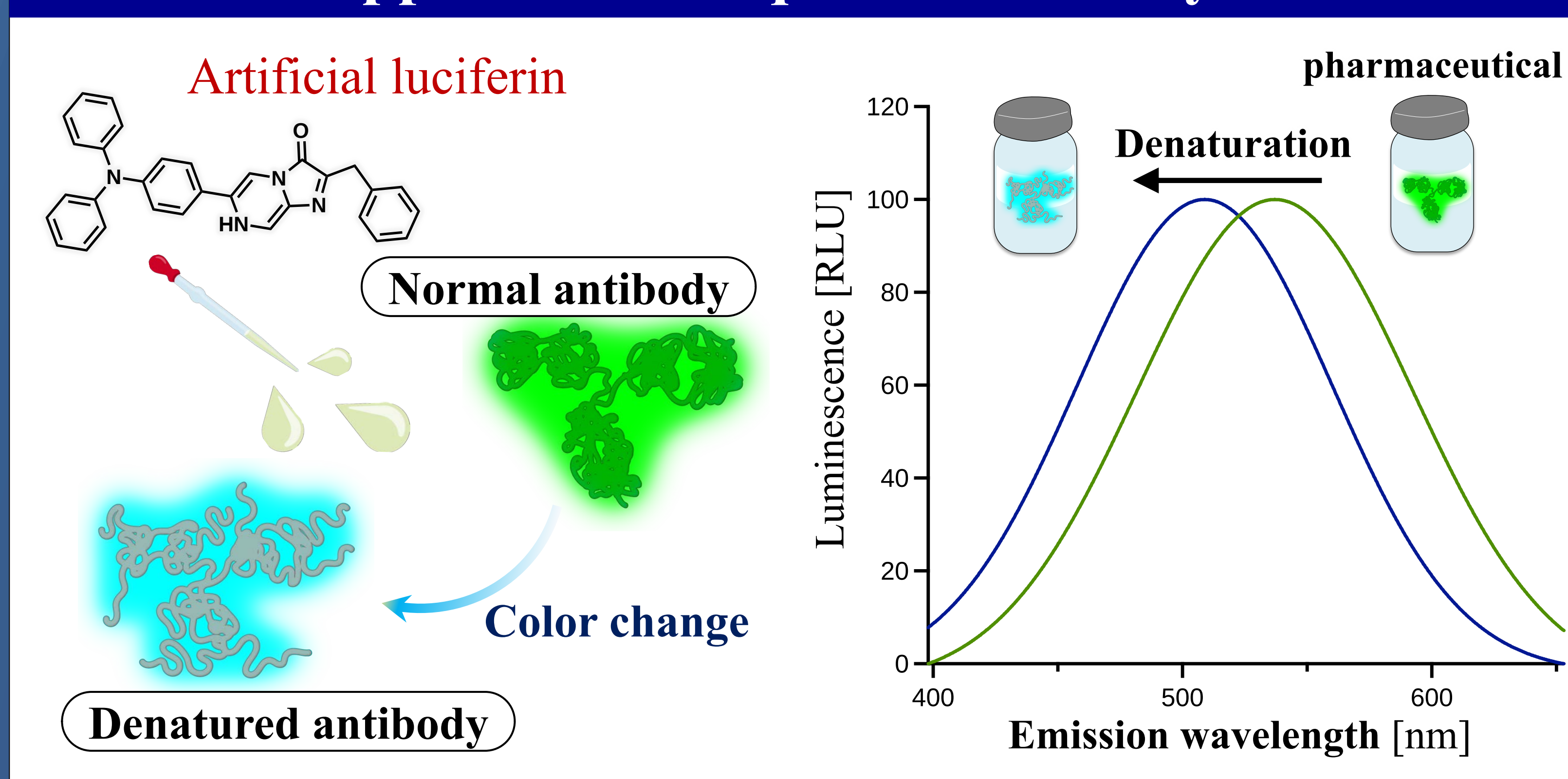
Artificial luciferins for other proteins



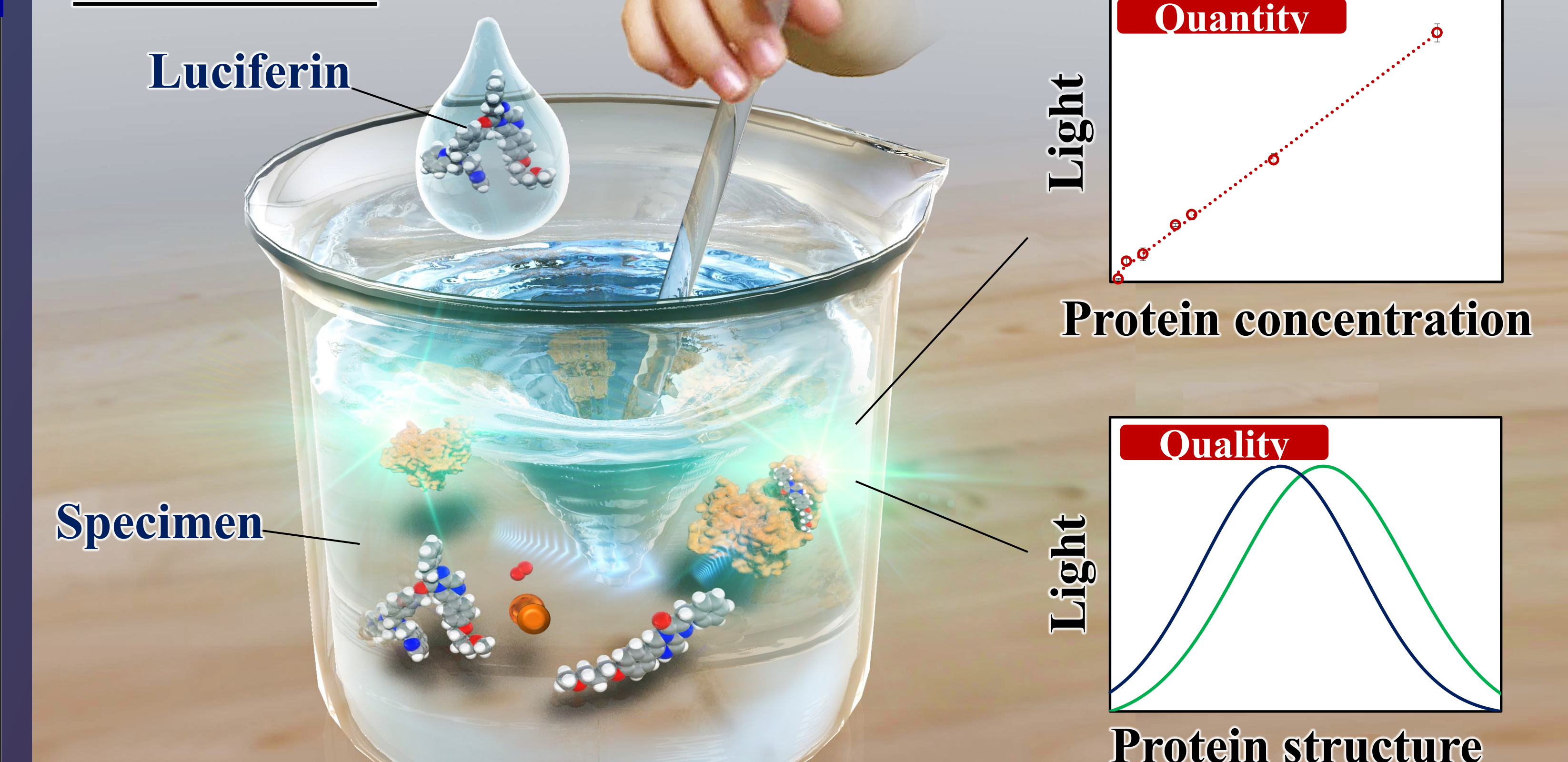
Native luciferins from marine organism



Application for qualitative analysis



Conclusion



Funding Sources

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References

[1] Nishihara R* et al, *ACS Cent. Sci.*, **2024**, *10*, 283-290. ; PCT/JP2023/026063. [2] Nishihara R* et al, *Bioconjugate Chem.*, **2020**, *31*, 2679-2684.; Nishihara R* et al, *IntechOpen*, **2021**, 13 pages.; Nishihara R* et al, *Analyst*, **2021**, *146*, 6139-6144. ; Kurita R* and Nishihara R* et al, *Sens. Actuators B: Chem.*, **2025**, *423*, 136700.; Kihara Y and Nishihara R* et al, *Bull. Chem. Soc. Jpn*, **2025**, *98*, uoaf074.; PCT/JP2021/010852. [3] Nishihara R* et al, *Anal. Chem.*, **2025**, *97*, 9935-9943.; PCT/JP2024/035577.