

Hydroquinone Oxidation by $\{\text{Cu}_3\text{O}_2\}$ Moieties with Perfluoropinacolate Ligands

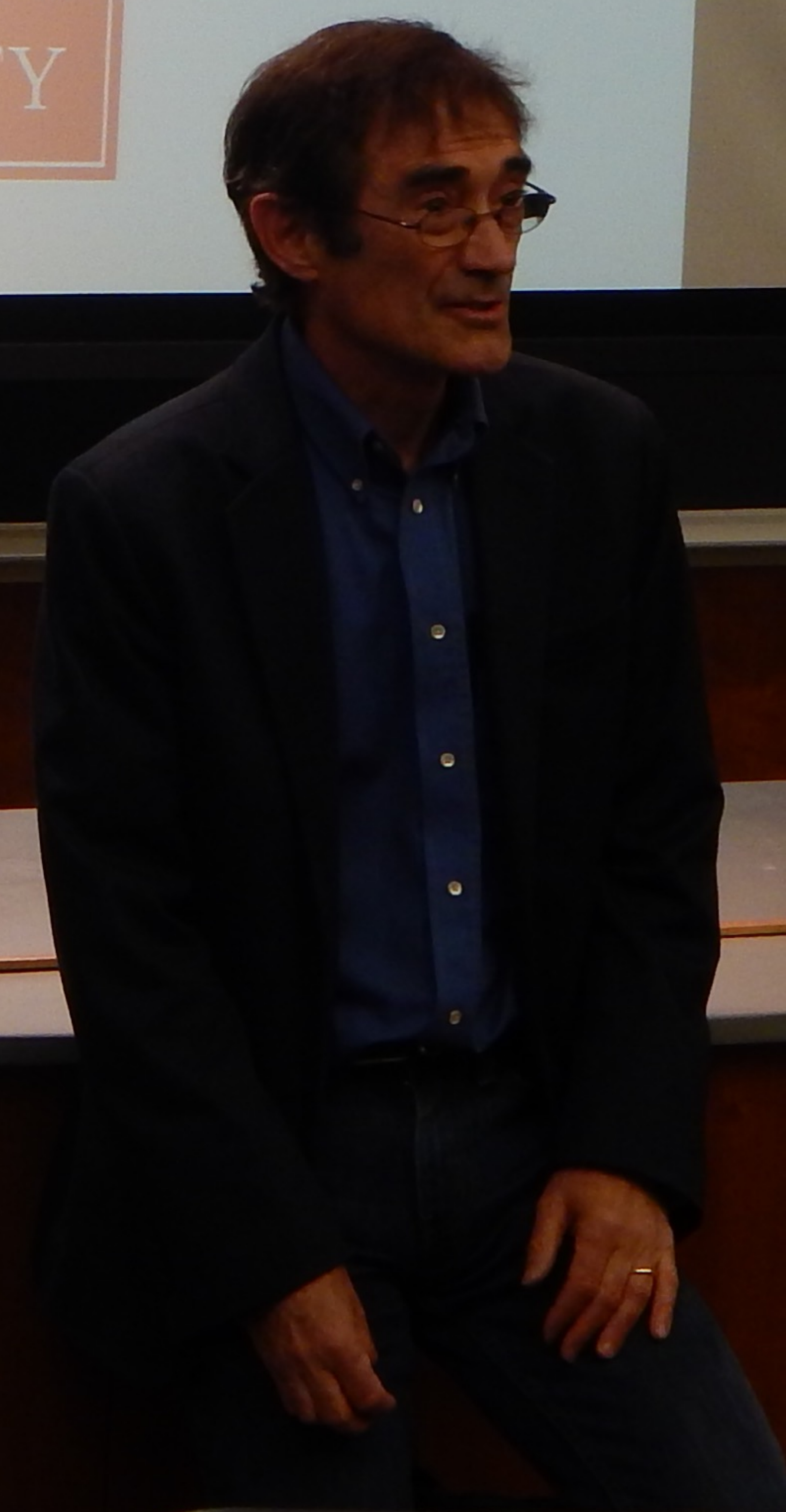
Amanda Arnoff

Undergraduate Research Symposium

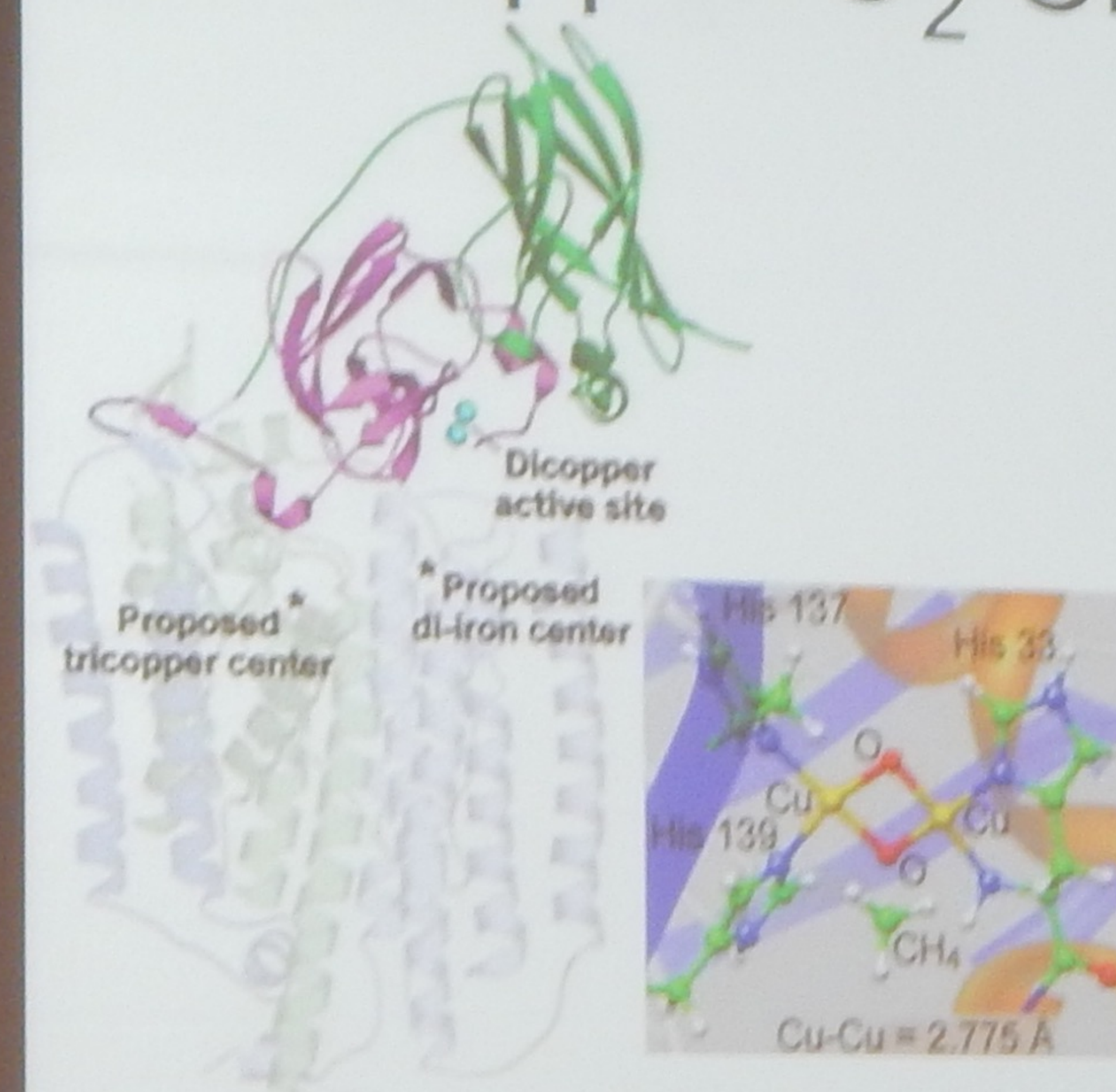
Advisor: Prof. Linda Doerrer

May 5, 2017

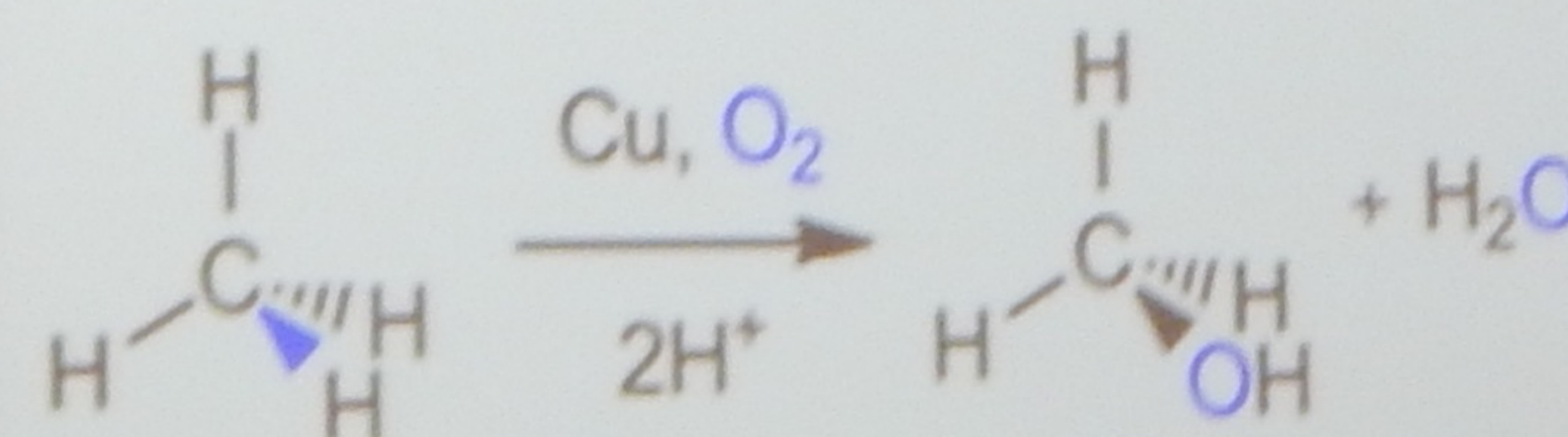
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Copper-O₂ Chemistry in Nature



Oxygenase – incorporation of one or more O atoms is realized in oxidation of C-H bonds



Bertrand, T.; Jolival, C.; Briozzo, P.; Caminade, E.; Joly, N.; Madzak, C.; Mougin, C. *Biochemistry*, 2002, 41, 7325-733.

Balasubramanian, R.; Smith, S. M.; Rawat, S.; Yatsunyk, L. A.; Stemmler, T. L.; Rosenzweig, A. C. *Nature*, 2010, 465, 115.

Himes, R. A.; Barnes, K.; Karlin, K. D.; *Angew. Chem. Int. Ed.*, 2010, 49, 6714-6716

A Young Woman in
a Summer Shower
1765
Suzuki Harunobu



Pt. 4 Red Collar

Pt. 3 Purple Sash

Pt. 2 Yellow Skirt

Pt. 1 Yellow Ground

Pt. 5 Gray Cloud

Pt. 6 Green Design

Pt. 7 Brown Pole

Pt. 8 Teal Design



EXIT

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5/5/

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The Structure of the Blood-Brain Barrier

