

Reading Lists

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Contents

0.1 Paper I	1
0.2 Paper VI	1

0.1 Paper I

0.1.1 X-ray and EM

“Biomolecular Crystallography” by Bernard Rupp (preferably 2 nd Edition) Garland Science ISBN 978-0815340812 “Outline of Crystallography for Biologists” by David Blow Oxford University Press, ISBN 978-0198510512 “Crystallography Made Crystal Clear” by Gale Rhodes Academic Press ISBN 978-0125870733 Milne JL, Borgnia MJ, Bartesaghi A, Tran EE, Earl LA, Schauder DM, Lengyel J, Pierson J, Patwardhan A, Subramaniam S. Cryo-electron microscopy—a primer for the non-microscopist. FEBS J. 2013 Jan;280(1):28-45. doi:

10.1111/febs.12078.

Kühlbrandt W. Cryo-EM enters a new era. Elife. 2014 Aug 13;3:e03678. doi:

10.7554/eLife.03678 Yong Xiong (2007) From electron microscopy to X-ray crystallography:

molecular-replacement case studies. Elife. 2014 Aug 13;3:e03678.

0.2 Paper VI

0.2.1 HT 2020: Protein Purification

- ‘Methods in Enzymology’ volumes 22, 34, and 104 are devoted to techniques of protein purification.
- ‘Protein Purification Methods: A Practical Approach’ IRL Press, Eds ELV Harris and S Angal