

CITY UNIVERSITY OF NEW YORK GRADUATE SCHOOL  
Ph.D. PROGRAM IN BIOLOGY – PLANT SCIENCES FIRST EXAMINATION  
**READING LIST{tc "READING LIST"} 2005**

- Alberts, B., A. Johnson, J. Lewis, M. Raff, K. Roberts, and P. Walter** 2002 Molecular Biology of the Cell. 4<sup>rd</sup> ed., Garland Science, New York. Ch. 18,19, 21.
- Cronquist, A.** 1988. The evolution and classification of flowering plants, 2<sup>nd</sup> ed. Pub. Office, NYBG.
- Dewick, Paul M.** 2002. Medicinal natural products: a biosynthetic approach. Second Ed. John Wiley and Sons, NY.
- Fahn, A.** 1990. Plant Anatomy, 4<sup>th</sup> ed. Pergamon Press, NY.
- Griffiths A.J.F., Wessler S.R., Lewontin R.C., Gelbart W.M., Suzuki D.T. and Miller J.H.** 2005. Introduction to Genetic Analysis (8<sup>th</sup> ed.). Freeman, NY. Chapters 2, 6 & 16.
- Judd, W.S., C. S. Campbell, E.A. Kellogg, P.F. Stevens & M. Donoghue.** 2002. Plant systematics: A phylogenetic approach. 2nd Ed. Sinauer Assoc., Inc., Sunderland, MA.
- Lodish, Berk, Zipursky, Matsudaira, Baltimore, Darnell.** 2004. Molecular Cell Biology, 5<sup>th</sup> ed. W.H. Freeman, NY. Chapters 3,4,9,10,11,12,16.
- Molles, M.C., Jr.** 2002. Ecology: Concepts and Applications. McGraw-Hill, NY.
- Randall T. Schuh.** 2000. Biological Systematics: Principles and Applications. ix + 239 pages. Comstock Publishing Assoc., a Division of Cornell University Press, Ithaca and London.
- Raven, P.H. et al.** 1999. Biology of Plants, 6<sup>th</sup> ed. Worth Publishers, NY.
- Simpson, B.B. & M. Conner-Ogorzaly.** 2001 Economic Botany, 3<sup>rd</sup> ed. McGraw-Hill, NY.
- Sokal, R.R. & F.J. Rohlf.** 1995. Biometry, 3<sup>rd</sup> Ed. WH Freeman, NY.
- Stewart, W.N. & G.W. Rothwell.** 1993. Paleobotany and the evolution of plants, 2<sup>nd</sup> ed. Cambridge. Chapters 3, 7-10.
- Taiz, L. & E. Zeiger.** 2002. Plant Physiology, 3<sup>rd</sup> ed. Sinauer Associates, Sunderland, MA.

**NOTES:**     *Session IV instructions have been revised as follows:*  
Present a subject, problem, hypothesis, theory, or controversy you consider important to plant sciences. The essay should show relevance across the botanical subdisciplines. The essay should be both a review and a synthesis and demonstrate the level of scholarship, criticism, and independent thinking we require at the doctoral level. Your topic may be a large or a small one; broad or highly specialized; and you must communicate how the chosen topic is relevant to a major concept. We wish to measure the ability to understand and to synthesize information and ideas from more than one discipline of biology. Be sure to include something about the researchers and the literature. The essay must be significantly different from your responses to the questions of Session III. Finally, an essay based largely on the published work or grant proposals of faculty staff members or scientists at other institutions is not acceptable.