

**READING LISTS FOR YEAR 2013-14**

1. **Introductory Biochemistry: The Molecules of Life**      **D211N1**
  - Campbell, Mary K, Farrell, Shawn O, *Biochemistry*, 7th Edition, Brooks/Cole, 2012
  
2. **Genetics and Cell Biology**      **D211P1**
  - Watson, James D., *Recombinant DNA : genes and genomes : a short course*, 3rd Edition, W.H. Freeman, 2007
  - Russell, Peter J, *Genetics*, 5th Edition, Benjamin/Cummings, 1998
  - Solomon, Eldra Pearl, Berg, Linda R, *Biology*, 9th Edition, Brooks/Cole, 2011
  - Russell, Peter J, *iGenetics : a molecular approach*, 3rd Edition, Benjamin Cummings, 2010
  
3. **Whole Organism Biology**      **D211Z1**
  - Solomon, Eldra P. (Pearl), Berg, Linda R, *Biology*, 8th Edition, Brooks/Cole, 2008
  - Dawkins, Richard, 1941, *The selfish gene*, 30th Edition, Oxford University Press, 2006
  
4. **Introduction to Nutrition (Year Long)**      **D21BN1**
  - Gibney, Michael J, *Nutrition and metabolism*, Blackwell Science, 2003
  - Gibney, Michael J, *Public health nutrition*, Blackwell Science, 2004
  - Gurr, M. I. (Michael Ian), Harwood, John L, *Lipid biochemistry*, 5th Edition, Blackwell Science, 2002
  - Great Britain. Panel on Dietary Reference Values, *Dietary reference values for food energy and nutrients for the United Kingdom*, TSO, 1991
  
5. **Introductory Biochemistry: Metabolism**      **D212N3**
  - Campbell, Mary K, Farrell, Shawn O, *Biochemistry*, 7th Edition, Brooks/Cole, 2012
  
6. **Genetics with Specialist Options**      **D212P3**
  - Watson, James D., *Recombinant DNA : genes and genomes : a short course*, 3rd Edition, W.H. Freeman, 2007
  - Ptashne, Mark, Gann, Alexander, *Genes & signals*, Cold Spring Harbor Laboratory Press, 2002
  - Carey, Michael (Michael F.), Peterson, Craig L, *Transcriptional regulation in eukaryotes : concepts, strategies, and techniques*, 2nd Edition, Cold Spring Harbor Laboratory Press, 2009
  - Davidson, Eric H., 1937, *Genomic regulatory systems : development and evolution*, Academic Press, 2001
  - Alberts, Bruce, *Essential cell biology*, 3rd Edition, Garland Science, 2011
  - Lewin, Benjamin, *Genes IX*, Jones and Bartlett, 2008
  - Russell, Peter J, *iGenetics : a molecular approach*, 3rd Edition, Benjamin Cummings, 2010

7. **Microbial Physiology**

**D212F7**

- Madigan, Michael T., 1949, Martinko, John M., *Brock biology of microorganisms*, 11th Edition, Pearson Prentice Hall, 2006
- Dawes, Ian W, Sutherland, Ian W, *Microbial physiology*, 2nd Edition, Blackwell Science, 1992
- Becker, Wayne M, Kleinsmith, Lewis J, *The world of the cell*, 6th Edition, Pearson/Benjamin Cummings, 2006

8. **Introduction to Animal Physiology**

**D212Z5**

**Recommended Texts**

A number of good general physiology text books covering all aspects of the module are available in the library. In addition, individual lecturers may recommend specific text books for their specific areas.

- Barrett, Kim E, *Ganong's review of medical physiology*, 23rd Edition, McGraw-Hill Medical, 2010
- Sepkoski, David, *The paleobiological revolution essays on the growth of modern paleontology*, University of Chicago Press, 2009
- Rang, H. P, *Rang & Dale's pharmacology*, 7th Edition, Churchill Livingstone, 2012.  
**Note:** Specific sections: Section 1: General principles
- Ross, Michael H, Pawlina, Wojciech, *Histology : a text and atlas : with correlated cell and molecular biology*, 6th Edition, Wolters Kluwer Health/Lippincott Williams & Wilkins, 2011
- Sherwood, Laurelee, *Human physiology : from cells to systems*, 7th Edition, Brooks/Cole, 2010.  
**Note:** Specific sections: Ch.10 Renal Physiology
- Solomon, Eldra Pearl, Berg, Linda R, *Biology*, 9th Edition, Brooks/Cole, 2011.  
**Note:** Specific sections: Ch. 43 Internal Transport Chapter 39
- Aaronson & Ward,, *The Cardiovascular System at a Glance*
- Waugh, Anne, Grant, Allison, *Ross and Wilson anatomy and physiology in health and illness*, 11th Edition, Churchill Livingstone, 2010
- Kapit, Wynn, Macey, Robert I, *The physiology coloring book*, 2nd Edition, Benjamin Cummings, 1999
- Petersen, *Lecture Notes Human Physiology*.  
**Note:** Specific sections: Chapter 8 and Ch. 14, 15,16 & 17
- Randall, Burggren & French, *Eckert Animal Physiology Mechanism and Adaptations*
- Ross & Wilson, *Anatomy and Physiology in Health and Illness*

**Please note:** You do not need to read all these books.

You will also find that other recent animal and human physiology texts cover all aspects of the module.

- Levick, J. R. (J. Rodney), *An introduction to cardiovascular physiology*, 5th Edition, Hodder Arnold, 2010
- Petersen, O. H, *Human physiology*, 5th Edition, Blackwell, 2007
- Aaronson, Philip I. (Philip Irving), 1953, Ward, Jeremy P. T, *The cardiovascular system at a glance*, 3rd Edition, Blackwell, 2007

9. **Plant Science**

**C112P1**

Main text

- Campbell, Neil A., 1946, Reece, Jane B, *Biology*, 7th Edition, Pearson Benjamin Cummings, 2005.  
**Note:** Please check UNMCLOC for other editions held by Library

Secondary texts

- Ridge, Irene, *Plants*, Oxford University Press, 2002

Internet site:

- Internet Directory for Botany, [Web Resource]

10. **Molecular Pharming**

**C123P3**

- Fischer, Rainer, *Molecular farming : plant-made pharmaceuticals and technical proteins*, Wiley-VCH, 2004
- Nottingham, Stephen, 1960, *Eat your genes : how genetically modified food is entering our diet*, Zed Books, 1998
- Slater, Adrian, Scott, Nigel W, *Plant biotechnology : the genetic manipulation of plants*, 2nd Edition, Oxford University Press, 2008
- Caranta, Carole, *Recent advances in plant virology*, Caister Academic Press, 201

11. **Biochemistry of Mammalian Development**

**D223N1**

- Alberts, Bruce, *Molecular biology of the cell*, 4th Edition, Garland Science, 2002
- Gilbert, Scott F., 1949, *Developmental biology*, 9th Edition, Sinauer Associates, 2010

12. **Plant Biotechnology**

**D223P5**

**Main books**

- Slater, Adrian, Scott, Nigel W, *Plant biotechnology : the genetic manipulation of plants*, Oxford University Press, 2003

**Alternative books**

- Chrispeels, Maarten J., 1938, Sadava, David E, *Plants, genes, and crop biotechnology*, 2nd Edition, Jones and Bartlett, 2003.  
**Note:** This covers many aspects of the module well but the topics are sometimes hard to find because this is a substantial textbook that deals with many topics not relevant to this module.
- Smith, John E, *Biotechnology*, 4th Edition, Cambridge University Press, 2004.  
**Note:** This book is up to date and deals with some topics well but does not deal specifically with plants

**Other books that are peripheral or out of date but may be useful:**

- Hughes, Monica A, *Plant molecular genetics*, Prentice Hall/Pearson, 1996
- Ignacimuthu, S, *Plant biotechnology*, Oxford & IBH Pub., 1997
- Mount, David W, *Bioinformatics : sequence and genome analysis*, 2nd Edition, Cold Spring Harbor Laboratory Press, 2004
- Watson, James D., *Recombinant DNA*, 2nd Edition, Scientific American Books, 1992

**13. Soil Science**

**C123E3**

- Rowell, David L., 1937, *Soil science methods and applications*, Longman Scientific & Technical, 1994
- Ashman, M. R. (Mark R.), Puri, G, *Essential soil science : a clear and concise introduction to soil science*, Blackwell Science, 2002
- Courtney, Frank M., 1945, Trudgill, Stephen T, *The soil : an introduction to soil study*, 2nd Edition, Edward Arnold, 1984
- O'Hare, Greg, *Soils, vegetation, ecosystems*, Oliver & Boyd, 1988
- FitzPatrick, Ewart Adsil, *An introduction to soil science*, 2nd Edition, Longman Scientific & Technical, 1986
- White, R. E. (Robert Edwin), 1937, *Principles and practice of soil science : the soil as a natural resource*, 4th Edition, Blackwell, 2006

**14. Introductory Plant Pathology**

**C123P1**

- Agrios, George Nicholas, *Plant pathology*, 5th Edition, Elsevier/Academic Press, 2005
- Lucas, John Alexander, Dickinson, C. H, *Plant pathology and plant pathogens*, 3rd Edition, Blackwell Science, 1998
- Strange, Richard N, *Introduction to plant pathology*, John Wiley, 2003
- Singh, Rudra P, *Molecular methods in plant pathology*, Lewis Publishers, 1995
- Caranta, Carole, *Recent advances in plant virology*, Caister Academic Press, 2011

**15. Plant Physiology: Principles of Resource Capture**

**D223P8**

This module is centered on plant physiology and there are a few general texts that will cover the processes discussed in the module. A suitable text on plant physiology for this module is:

- Taiz L and Zeiger E. 2006. *Plant Physiology (4th Edition)*, Sinauer Publishers

There are alternative plant physiology texts. You could also use :

- Hopkins, William G, H✦ner, Norman P. A, *Introduction to plant physiology*, 4th Edition, John Wiley, 2009
- The following are recommended for more detailed reading around each of the subjects :

Photosynthesis, respiration and environmental physiology:

- Kevin Pyke (2009). *Plastid Biology*, Cambridge
- Linden, Ian, *Global Catholicism diversity and change since Vatican II*, Columbia University Press, 2009.  
**Note:** available as an e-book
- Larcher, W. (Walter), 1929, *Physiological plant ecology : ecophysiology and stress physiology of functional groups*, 4th Edition, Springer, 2003

Water :

- Taiz L and Zeiger E. 2006. *Plant Physiology (4th Edition)*, Sinauer Publishers.
- Salisbury, Frank B, Ross, Cleon W., *Plant physiology*, 4th Edition, Wadsworth, 1992

Plant nutrition :

- Mengel, Konrad, Kirkby, Ernest A, *Principles of plant nutrition*, 5th Edition, Kluwer Academic, 2001
- Marschner, Horst, *Mineral nutrition of higher plants*, 2nd Edition, Academic, 2002

Agricultural aspects :

- Azam-Ali, S. N. (Sayed N.), Squire, G. R, *Principles of tropical agronomy*, CABI Pub., 2002.  
**Note:** Available as an e- book
- Hay and Porter (2006) *Physiology of Crop Yield 2nd Edition*, Blackwell Books

16. **Molecular Biology of the Cell** **C124P1**

- Alberts, Bruce, *Essential cell biology*, 2nd Edition, Garland Science, 2004
- Alberts, Bruce, *Molecular biology of the cell*, 4th Edition, Garland Science, 2002
- Karp, Gerald, *Cell and molecular biology : concepts and experiments*, 6th Edition, John Wiley, 2010

17. **Molecular Techniques in Biosciences** **D224P6**

- Birren, Bruce W, *Genome analysis : Vol. 1, analyzing DNA a laboratory manual*, Cold Spring Harbor Laboratory Press, 1997
- Birren, Bruce W, *Genome analysis : Vol. 4, mapping genomes a laboratory manual*, Cold Spring Harbor Laboratory Press, 1999
- Hughes, S, *PCR*, Scion, 2007
- Hunt, Stephen P, *Functional genomics : a practical approach*, Oxford University Press, 2000
- Liebler, Daniel C, *Introduction to proteomics : tools for the new biology*, Humana Press, 2002
- Malmberg, Russell, Messing, Joachim W, *Molecular biology of plants : a laboratory course manual*, Cold Spring Harbor Laboratory, 1985
- Tuzun, Sadik, *Multigenic and induced systemic resistance in plants*, Springer, 2006
- Witkowski, J. A, *The inside story : DNA to RNA to protein*, Cold Spring Harbor Laboratory Press, 2005
- Arditti, Joseph, *Fundamentals of orchid biology*, John Wiley, 1992

18. **Microbial Biotechnology: Genes to Products** **C12461**

- Adams, M. R, Moss, M. O, *Food microbiology*, 3rd Edition, Royal Society of Chemistry, 2008
- Adds, John, Larkcom, Erica, *Microorganisms and biotechnology*, Nelson, 1998
- Barnum, Susan R., *Biotechnology : an introduction*, 2nd Edition, Thomson/Brooks/Cole, 2005
- Bourgaize, David, Jewell, Thomas R, *Biotechnology : demystifying the concepts*, Benjamin/Cummings, 2000
- *Fungi : biology and applications / editor, Kevin Kavanagh*, John Wiley & Sons, 2005
- Glick, Bernard R, Pasternak, Jack J, *Molecular biotechnology : principles and applications of recombinant DNA*, 3rd Edition, ASM Press, 2003.  
**Note:** NB. This is a key text.
- Ratledge, Colin, *Basic biotechnology*, 3rd Edition, Cambridge University Press, 2006.  
**Note:** Please check UNMCLOC for other editions held by Library NB. This is a key text.
- Singleton, Paul, *Bacteria in biology, biotechnology, and medicine*, 6th Edition, John Wiley, 2004
- Walker, Graeme M, *Yeast physiology and biotechnology*, John Wiley, 1998
- Walker, John M., *Molecular biology and biotechnology*, 4th Edition, Royal Society of Chemistry, 2000

19. **Food Safety** **D224FS**

- Adams, M. R, Moss, M. O, *Food microbiology*, 3rd Edition, Royal Society of Chemistry, 2008
- McLauchlin, Jim, *Hobbs' food poisoning and food hygiene*, 7th Edition, Hodder Education, 200

20. **Practical Methods in Microbiology** **D224FM**

- Adams, M. R, Moss, M. O, *Food microbiology*, 3rd Edition, Royal Society of Chemistry, 2008
- McLauchlin, Jim, *Hobbs' food poisoning and food hygiene*, 7th Edition, Hodder Education, 2007

21. **Plant Responses to Environmental Stress** **D224P5**

- Azam-Ali, Sayed, Squire, G. R, *Principles of tropical agronomy*, CABI Pub., 2002.  
**Note:** Chapters 2, 3 & 6
- Loomis, R. S, Connor, D. J, *Crop ecology : productivity and management in agricultural systems*, Cambridge University Press, 1992
- Rendig, Victor V, Taylor, H. M, *Principles of soil-plant interrelationships*, McGraw-Hill, 1989.  
**Note:** Chapters 1, 2 & 4
- Squire, G. R. (Geoffrey R), *The physiology of tropical crop production*, CAB International, 1990
- Black & Ong, 2000. *Utilisation of light and water in tropical agriculture. Agricultural & Forest Meteorology*, 104, 25-47.
- Davies, 1993. *ABA and the control of growth and physiology of stressed plants. In: Interacting Stresses on Plants in a Changing Climate, Jackson & Black (eds.), pp. 543-556.*
- Hsiao, 1993. *Effects of drought and elevated CO2 on plant water use efficiency and productivity. In: Interacting Stresses on Plants in a Changing Climate, Jackson & Black (eds.), pp. 435-466.*
- Keating & Carberry, 1993. *Resource capture and use in intercropping: solar radiation. Field Crops Research*, 34, 273-301.
- Morris & Garrity, 1993. *Resource capture and utilisation in intercropping: water. Field Crops Research*, 34, 303-317.

- Lott, Howard, Black & Ong, 2000. Long term productivity of a *Grevillea robusta* based agroforestry system in Kenya. II Crop growth and system productivity. *Forest Ecology & Management*, 139, 187-201.
- Lott, Howard, Black and Ong, 2000. Long term productivity of a *Grevillea robusta* based agroforestry system in Kenya. I Tree growth. *Forest Ecology & Management*, 139, 175-186.
- Ong, Black, Marshall & Corlett 1996. Principles of resource capture and utilisation of light and water. In: *Tree-Crop Interactions in Agroforestry Systems*. Ong & Huxley (eds.), CAB International, pp. 73-158.
- Ong, Black, Simmonds & Saffell, 1985. Influence of saturation deficit on leaf production and expansion in stands of groundnut grown without irrigation. *Annals of Botany*, 56, 523-536.
- Ong, Khan, Black, Lott, Howard, Wallace, Jackson & Smith, 2000. Productivity, microclimate and water use in *Grevillea robusta*-based agroforestry systems on hillslopes in Kenya. *Agriculture, Ecosystems & Environment*, 80, 121-141.
- Ong, Simmonds & Matthews, 1987. Responses to saturation deficit in a stand of groundnut (*Arachis hypogaea*). 2. Growth and development. *Annals of Botany*, 59, 121-128.
- Sharp, Ober & Wu 1993. Regulation of root growth at low water potentials. In: *Interacting Stresses on Plants in a Changing Climate*, Jackson & Black (eds.), pp. 557-572.
  
- Squire, 1993. The physiology of survival at the limits of farming in the dry tropics. In: *Interacting Stresses on Plants in a Changing Climate*, Jackson & Black (eds.), pp. 485-496.
- Rendig, Victor V, Taylor, Howard M, *Principles of soil-plant interrelationships*, McGraw-Hill, 1989
- Connor, D. J, Loomis, R. S, *Crop ecology : productivity and management in agricultural systems*, 2nd Edition, Cambridge University Press, 2011

22. Plant Cell Signalling

D235P2

- Srivastava, L. M. (Lalit Mohan), 1932, *Plant growth and development : hormones and environment*, Academic Press, 2002
- Buchanan, Bob B, *Biochemistry & molecular biology of plants*, American Society of Plant Physiologists, 2000
- Hughes, Monica A, *Plant molecular genetics*, Prentice Hall/Pearson, 1996
- Davies, Peter J., *Plant hormones : biosynthesis, signal transduction, action!*, 3rd Edition, Springer, 2010
- Wen, Geyi, *Foundations of applied electrodynamics*, John Wiley, 2010
- Smith, S. E, Read, D. J, *Mycorrhizal symbiosis*, 3rd Edition, Academic Press/Elsevier, 2008

23. Plant Microbe Interactions

C135P1

General texts

- Douglas, A. E. (Angela Elizabeth), 1956, *Symbiotic Interactions*, Oxford University Press, 1994
- Paracer, Surindar, 1941, Ahmadjian, Vernon, *Symbiosis : an introduction to biological associations*, 2nd Edition, Oxford University Press, 2000.  
**Note:** Please check UNMCLOC for other editions held by Library
- Smith, D. C. (David Cecil), 1930, Douglas, A. E, *The biology of symbiosis*, Edward Arnold, 1987
- Sprent, Janet I, Sprent, Peter, *Nitrogen fixing organisms : pure and applied aspects*, 1st Edition, Chapman and Hall, 1990

### Legumes and Actinorhizas

- Brewin, N.J. (1991). *Development of the legume root nodule. Annual Review of Cell Biology.* 7:191-226.
- Crews, T.E. & Peoples, M.B. (2004). *Legume versus fertilizer sources of nitrogen: ecological tradeoffs and human needs. Agriculture, Ecosystems and Environment* 102: 279-297.
- Ferguson B.J. & Mathesius, U. (2003). *Signalling interactions during nodule development. Journal of Plant Growth Regulation* 22: 47-72.
- Gage, D.J. (2004). *Infection and invasion of roots by symbiotic, nitrogen-fixing rhizobia during nodulation of temperate legumes. Microbiology and Molecular Biology Reviews* 68: 280-.
- Giller, K. E. (Ken E.), *Nitrogen fixation in tropical cropping systems*, 2nd Edition, CABI Pub., 2001
- Gualtieri, G. & Bisseling, T. (2000). *The evolution of nodulation. Plant Molecular Biology* 42:181-194.
- Hirsch, A.M. (1992). *Developmental biology of legume nodulation. New Phytologist* 122: 211-237.
- Huss-Danell, K. (1997). *Actinorhizal symbioses and their N<sub>2</sub> fixation. New Phytologist* 136: 375-405.
- Kuzma, M.M., Hunt, S. & Layzell, D.B. (1993). *Role of oxygen in the limitation and inhibition of nitrogenase activity and respiration rate in individual soybean nodules. Plant Physiology* 101: 161-169
- Mestel, R. (1997). *Let's make nodules. New Scientist.* 11 January 1997, p. 10.
- Mylona, P., Pawlowski, K. & Bisseling, T. (1995). *Symbiotic nitrogen fixation. Plant Cell* 7: 869-885.
- Pawlowski, K. & Bisseling, T. (1996). *Rhizobial and actinorhizal symbioses: what are the shared features? Plant Cell* 8: 1899-1913.
- Postgate, J. R. (John Raymond), *Nitrogen fixation*, 3rd Edition, Cambridge University Press, 1998
- Schultze, M. & Kondorosi, A. (1998). *Regulation of symbiotic root nodule development. Annual Review of Genetics.* 32: 33-57.
- Schwintzer, Christa R, *The Biology of Frankia and actinorhizal plants*, Academic Press, 1990
- Tyerman, S.D., Whitehead, L.F. & Day, D.A. (1995). *A channel-like transporter for NH<sub>4</sub><sup>+</sup> on the symbiotic interface of N<sub>2</sub>-fixing plants. Nature* 378: 629-632.
- van Rhijn, P. & Vanderleyden, J. (1995). *The Rhizobium-plant symbiosis. Microbiological Reviews.* 59: 124-142.

### Mycorrhizas

- Allen, Michael F., *Mycorrhizal functioning : an integrative plant-fungal process*, Chapman & Hall, 1992
- Brundrett, M. (1991). *Mycorrhizas in natural ecosystems. Advances in Ecological Research* 21: 171-313
- Buscot, F., Munch, J.C., Charcosset, J.Y., et al. (2000). *Recent advances in exploring physiology and biodiversity of ectomycorrhizas highlight the functioning of these symbioses in ecosystems. FEMS Microbiology Reviews* 24: 601-614
- Gianinazzi-Pearson, V. (1996). *Plant cell responses to arbuscular mycorrhizal fungi: getting to the roots of the symbiosis. Plant Cell* 8: 1871-1883.
- Harrison, M.J. (1997). *The arbuscular mycorrhizal symbiosis: an underground association. Trends in Plant Science* 2: 54-60.
- Koide, Roger T, Mosse, Barbara, *A history of research on arbuscular mycorrhiza*, Springer, 2004
- Leake, Jonathan, *Networks of power and influence : the role of mycorrhizal mycelium in controlling plant communities and agroecosystem functioning*, National Research Council of Canada, 2004
- Multiauthor (2005). *The Mycorrhizal Symbiosis. Mycologist* 19 (Special Issue).
- Peterson, L., Uetake, Y. & Zelmer, C. (1998). *Fungal symbioses with orchid protocorms. Symbiosis* 25: 29-55.
- Peterson, R. Larry, Massicotte, Hugues B, *Mycorrhizas : anatomy and cell biology*, NRC Research Press, 2004
- Podila, Gopi K, *Current advances in mycorrhizae research*, American Phytopathological Society, 2000
- Sutton, B. C, *A century of mycology*, Cambridge University Press for the British Mycological Society, 1996



- Read, D.J. (1996). *The nature and extent of mutualism in the mycorrhizal symbiosis*. In: *A Century of Mycology* (ed. by B.C. Sutton) pp. 255-291. Cambridge University Press: Cambridge.
- Selosse, M.-A. & Tacon, F. (1998). *The land flora: a phototroph-fungus partnership?* *Trends in Ecology & Evolution* 13:15-20.
- Smith, F.A. & Smith, S.E. (1996). *Mutualism and parasitism: diversity in function and structure in the arbuscular (VA) mycorrhizal symbiosis*. *Advances in Botanical Research* 22: 1-43.
- Smith, F.A. & Smith, S.E. (1997). *Structural diversity in (vesicular)-arbuscular mycorrhizal symbioses*. *New Phytologist* 137: 373-388.
- Smith, S.E. & Gianinazzi-Pearson, V. (1998). *Physiological interactions between symbionts in vesicular-arbuscular mycorrhizal plants*. *Annual Review of Plant Physiology and Plant Molecular Biology* 39: 221-244.
- Smith, S. E, Read, D. J, *Mycorrhizal symbiosis.*, 2nd Edition, Academic Press, 1997
- Read, D. J, *Mycorrhizas in Ecosystems*, CAB International, 1992van der Heijden, M.G.A. et al. (1998). *Mycorrhizal fungal diversity determines plant biodiversity, ecosystem variability and productivity*. *Nature* 396: 69-72.
- Heijden, M. G. A. van der, *Mycorrhizal ecology*, Springer, 2002
- Varma, A, *Mycorrhiza : structure, function, molecular biology, and biotechnology*, 2nd Edition, Springer-Verlag, 1999

#### Lichens

- Ahmadjian, Vernon, *The lichen symbiosis*, Blaisdel Publishing, 1967
- Gilbert, O. L. (Oliver L), 1936, *Lichens*, HarperCollins, 2000
- Honegger, R. (1993). *Developmental biology of lichens*. *New Phytologist* 125: 656-677.
- Palmqvist, K. (2000). *Carbon economy in lichens*. *New Phytologist* 148: 11-36.
- Purvis, William (Ole William), *Lichens*, Natural History Museum, 2000
- Nash, Thomas H, *Lichen biology*, Cambridge University Press, 1996
- Rai, A.N., Soderback, E., & Bergman, B. (2000). *Cyanobacterium-plant symbioses*. *New Phytologist* 147: 449-481.

#### 24. Academic Development and Employability **D21BP1**

- Cottrell, S. (2003). *Skills for success. The personal development planning book*. Palgrave Macmillan. 296p

#### 25. Molecular Plant Pathology **C135P2**

- Dickinson, Matthew, 1960, *Molecular plant pathology*, BIOS Scientific, 2003
- Singh, Rudra P, *Molecular methods in plant pathology*, Lewis Publishers, 1995
- Prell, Hermann H., 1925, Day, Peter R., *Plant-fungal pathogen interaction : a classical and molecular view*, Springer, 2001

#### 26. Plant Disease Control **D236P3**

- Agrios, George Nicholas, *Plant pathology*, 5th Edition, Elsevier/Academic Press, 2005
- Burdon, J. J, *Pests, pathogens, and plant communities*, Blackwell Scientific, 1990
- Lucas, John Alexander, Dickinson, C. H, *Plant pathology and plant pathogens*, 3rd Edition, Blackwell Science, 1998
- Parry, David W, *Plant pathology in agriculture*, Cambridge University Press, 1990
- Walkey, D. G. A. (David Gerald Alan), *Applied plant virology*, 2nd Edition, Chapman and Hall, 1991

27. **Sex, Flowers and Biotechnology**

**D236P4**

- Howell, Stephen H. (Stephen Herbert), 1941, *Molecular genetics of plant development*, Cambridge University Press, 1998
- Jordan, Brian R, *The molecular biology and biotechnology of flowering*, 2nd Edition, CABI Pub., 2006

28. **Current Issues in Biotechnology**

**C136P3**

- Halford, N. G. (Nigel G.), *Genetically modified crops*, Imperial College Press, 2003
- Ashwani Kumar, *Applications of plant biotechnology : in vitro propagation, plant transformation and secondary metabolite production*, I. K. International, 2010
- Wickneswari, Ratnam, *Managing the future of Southeast Asia's valuable tropical rainforests : a practitioner's guide to forest genetics*, Springer, 2011

29. **Plant Genetic Manipulation**

**C13569**

- Khachatourians GG, McHughen A, Scorza R, Nip W-K, Hui YH (2002) *Transgenic Plants and Crops*. Marcel Dekker Inc., New York, Basel 876 p.
- Slater A, Scott NW, Fowler MR (2003) *Plant Biotechnology: The Genetic Manipulation of Plants*. Oxford University Press. 346 p.
- Curtis IS (2004) *Transgenic Crops of the World – Essential Protocols*. Kluwer Academic Publishers, Dordrecht, The Netherlands. 454 p.

30. **Principles of Immunology**

**D223N6**

- Lydyard, PM; Whelan, A; Fanger, MW. Immunology. Bios instant notes series, Ed: Hames, BD, Taylor and Francis Group, New York USA, 2004,332p.
- Abbas, AK; Lichtman, AH. Cellular and molecular Immunology. Elsevier Saunders ed, Pennsylvania, USA, 2005, 564p.
- Pinchuk, G. Immunology. Schaum's outline series, McGraw-Hill ed., New York USA, 2002, 318p.
- Roitt, I; Brostoff, J; Male, D. Immunology, Edimburgh, ed Mosby, 2001.
- Walport, M., Travers, P., Murphy, K. Janeway's Immunobiology, 2008, Garland Sci., USA

31. **D22M04 Postharvest Physiology and Technology**

- Postharvest Technology of Horticultural Crops, 3rd Ed by Adel Kader
- Postharvest: An Introduction to the Physiology and Handling of Fruit, Vegetables and Ornamentals by Ron Wills, Barry McGlasson, Doug Graham and Daryl Joyce
- Postharvest Physiology of Perishable Plant Products by Stanley J Kays
- Postharvest Biology and Technology for Preserving Fruit Quality by Daniel Valero and Maria Serrano

32. **C124P1 Molecular Biology of the Cell**

- Essential Cell Biology. Bruce Alberts, Dennis Bray, Karen Hopkin, Alexander Johnson, Julian Lewis, Martin Raff, Keith Roberts and Peter Walter. 3<sup>rd</sup> Edition (2009). Garland Publishing Inc – New York and London. ISBN 9780815341307.
- Essential Cell Biology. – An Introduction to the Molecular Biology of the Cell. Bruce Alberts, Dennis Bray, Karen Hopkin, Alexander Johnson, Julian Lewis, Martin Raff, Keith Roberts and Peter Walter. 2<sup>nd</sup> Edition (2003). Garland Publishing Inc – New York and London. ISBN 0815334818.
- Molecular Biology of the Cell. Bruce Alberts, Dennis Bray, Julian Lewis, Martin Raff, Keith Roberts, James D. Watson. 4<sup>th</sup> Edition (2002). Garland Science. ISBN 0815340729.
- Cell and Molecular Biology: Concepts and Experiments. Gerald Karp and Peter van der Geer. 4<sup>th</sup> Edition (2004). John Wiley & Sons Inc. ISBN 0-471-46580-1.

33. **D235P6 Plants and the light environment reading list**

- Gates, DM., Keegan, HJ., Schleiter, JC., Weidner, VR. (1965) Spectral properties of Plants. Applied Optics. 4(1): 11-20
- Kendrick, RE., Cone JW. (1985) Biphasic Fluence response curves for induction of seed germination. Plant Phys. 79: 299-300
- Vogelmann, TC. (1993) Plant Tissue Optics. Annu. Rev. Plant Phys Plant Mol Biol. 44: 231-51.
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