

Fundamental Topics in Biology 2

Year 2 Semester 1 Life Sciences course

View Online



-
1.
Campbell NA, Urry LA, Cain ML, Wasserman SA, Minorsky PV, Reece JB. Biology: a global approach. Eleventh edition. Harlow, Essex: Pearson Education Limited; 2018.
 2.
Fundamental Topics in Biology [Internet]. Available from:
<https://www.mvls.gla.ac.uk/Teaching/SLS-FTB/>
 3.
Our Changing Climate: Introduction to Climate Science -
<https://www.ametsoc.org/ams/index.cfm/education-careers/education-program/undergraduate-faculty/climate-studies/course-components/textbook/climate-chap1/> [Internet].
Available from:
<https://www.ametsoc.org/ams/index.cfm/education-careers/education-program/undergraduate-faculty/climate-studies/course-components/textbook/climate-chap1/>
 4.
Climate Time Machine [Internet]. Available from:
<https://climate.nasa.gov/interactives/climate-time-machine>
 5.
Singer F. Ecology in action [Internet]. Cambridge: Cambridge University Press; 2016.
Available from:
<https://ezproxy.lib.gla.ac.uk/login?url=https://doi.org/10.1017/9781316335802>

6.

BiomeViewer | HHMI BioInteractive [Internet]. Available from:
<http://www.hhmi.org/biointeractive/biomeviewer>

7.

J. P. Grime. Evidence for the Existence of Three Primary Strategies in Plants and Its Relevance to Ecological and Evolutionary Theory. *The American Naturalist* [Internet]. 1977;111(982):1169–94. Available from:
http://ezproxy.lib.gla.ac.uk/login?url=https://www.jstor.org/stable/2460262?seq=1#page_scan_tab_contents

8.

Kleiber M. BODY SIZE AND METABOLIC RATE. *Physiological Reviews*. 1947 Oct 1;27(4):511–41.

9.

magicicada.org [Internet]. Available from:
http://www.magicicada.org/magicicada_2015.php

10.

An Introduction to Cell Metabolism | Protocol [Internet]. Available from:
<http://ezproxy.lib.gla.ac.uk/login?url=https://www.jove.com/science-education/5652/an-introduction-to-cell-metabolism>

11.

Hou JC, Min L, Pessin JE. Chapter 16 Insulin Granule Biogenesis, Trafficking and Exocytosis. In: *Insulin and IGFs* [Internet]. [Place of publication not identified]: Academic Press; 2009. p. 473–506. Available from:
<http://ezproxy.lib.gla.ac.uk/login?url=http://ebookcentral.proquest.com/lib/gla/detail.action?docID=535194>

12.

How Insulin and Glucagon Work [Internet]. 11AD. Available from:

<https://www.youtube.com/watch?v=-cL1TOeXv6k>

13.

Reciprocal Regulation of Gluconeogenesis and Glycolysis [Internet]. 20AD. Available from: <https://www.youtube.com/watch?v=ardjd4h2Seo>

14.

PDB-101: Insulin Receptor [Internet]. Available from: <http://pdb101.rcsb.org/motm/182>

15.

PDB-101: cAMP-dependent Protein Kinase (PKA) [Internet]. Available from: <http://pdb101.rcsb.org/motm/152>

16.

Insulin and Glucose Regulation of Glycogenesis [Internet]. 24AD. Available from: <https://www.youtube.com/watch?v=t12pXyMg7NQ>

17.

Colberg SR, Sigal RJ, Fernhall B, Regensteiner JG, Blissmer BJ, Rubin RR, et al. Exercise and Type 2 Diabetes: The American College of Sports Medicine and the American Diabetes Association: joint position statement. *Diabetes Care*. 2010 Dec 1;33(12):e147–67.

18.

Nutrition Recommendations and Interventions for Diabetes: A position statement of the American Diabetes Association. *Diabetes Care*. 2008 Jan 1;31(Supplement 1):S61–78.

19.

Glossary of Terms from Roitt's Essential Immunology [Internet]. Available from: <http://www.roitt.com/glossary.asp>

20.

Glossary of Immunology terms | Immunopaedia [Internet]. Available from:
<https://www.immunopaedia.org.za/glossary/>

21.

Willey JM, Sherwood L, Woolverton CJ, Prescott LM. Prescott's microbiology. Tenth edition, McGraw-Hill international edition. New York, NY: McGraw-Hill Education; 2017.

22.

Male DK. Immunology: an illustrated outline [Internet]. Sixth edition. Boca Raton, FL: CRC Press; 2021. Available from:
<https://ezproxy.lib.gla.ac.uk/login?url=https://www.taylorfrancis.com/books/9781003137658>

23.

Slonczewski JL, Foster JW, Gillen KM. Microbiology: an evolving science. Third edition, International student edition. New York: W.W. Norton; 2014.

24.

Murphy K, Weaver C, Mowat A, Berg L, Chaplin DD, Janeway CA, et al. Janeway's immunobiology. 9th edition. New York, NY: Garland Science, Taylor & Francis Group, LLC; 2017.

25.

BiteSized Immunology | British Society for Immunology [Internet]. Available from:
<https://www.immunology.org/public-information/bitesized-immunology>

26.

McInnes IB, Schett G. Pathogenetic insights from the treatment of rheumatoid arthritis. *The Lancet*. 2017 Jun;389(10086):2328–37.

27.

Smolen JS, Aletaha D, McInnes IB. Rheumatoid arthritis. *The Lancet*. 2016 Oct;388(10055):2023–38.

28.

Cell division, tumor growth and metastasis, 3D animation with basic narration :: DNA Learning Center [Internet]. Available from: <https://www.dnalc.org/view/15536-Cell-division-tumor-growth-and-metastasis-3D-animation-with-basic-narration.html>

29.

Introduction to the Hallmarks of Cancer - Scientific American Blog Network [Internet]. Available from: <https://blogs.scientificamerican.com/guest-blog/introduction-to-the-hallmarks-of-cancer/>

30.

Molecular Causes of Cancer | BioOncology [Internet]. Available from: <https://www.biooncology.com/resources/molecular-causes-of-cancer.html>

31.

Cancer Research UK [Internet]. Available from: <https://www.cancerresearchuk.org/>

32.

Hanahan D, Weinberg RA. The Hallmarks of Cancer. *Cell*. 2000 Jan;100(1):57–70.

33.

Hanahan D, Weinberg RA. Hallmarks of Cancer: The Next Generation. *Cell*. 2011 Mar;144(5):646–74.

34.

NIH: Unraveling the Mystery of Alzheimer's Disease [Internet]. 12AD. Available from: <https://www.youtube.com/watch?v=wzkQyWpu10E>

35.

What is Alzheimer's disease? - Ivan Seah Yu Jun [Internet]. 3AD. Available from: <https://www.youtube.com/watch?v=yJXTXN4xrl8>

36.

What Is Alzheimer's Disease? [Internet]. Available from: <https://www.nia.nih.gov/health/what-alzheimers-disease>

37.

Slegers K, Lambert JC, Bertram L, Cruts M, Amouyel P, Van Broeckhoven C. The pursuit of susceptibility genes for Alzheimer's disease: progress and prospects. *Trends in Genetics*. 2010 Feb;26(2):84-93.

38.

Holtzman DM, Morris JC, Goate AM. Alzheimer's Disease: The Challenge of the Second Century. *Science Translational Medicine*. 2011 Apr 6;3(77):77sr1-77sr1.

39.

Beckerman AP, Petchey OL. *Getting started with R: an introduction for biologists* [Internet]. Oxford: Oxford University Press; 2012. Available from: <https://ezproxy.lib.gla.ac.uk/login?url=https://dx.doi.org/10.1093/acprof:oso/9780199601615.001.0001>

40.

Hardy-Weinberg principle [Internet]. Available from: http://www.phschool.com/science/biology_place/labbench/lab8/hardwein.html

41.

Hardy-Weinberg: sample problems and solutions. [Internet]. Available from:
https://www.germann.edu/documents/Hardy-WeinbergEquilibriumSept2012_002.pdf

42.

An Introduction to the Micropipettor | Protocol [Internet]. Available from:
<http://ezproxy.lib.gla.ac.uk/login?url=https://www.jove.com/science-education/5033/an-introduction-to-the-micropipettor>

43.

Making Solutions in the Laboratory | Protocol [Internet]. Available from:
<http://ezproxy.lib.gla.ac.uk/login?url=https://www.jove.com/science-education/5030/making-solutions-in-the-laboratory>

44.

Learning Concentration, Measuring Volumes, and Serial Dilutions | Protocol [Internet]. Available from:
<http://ezproxy.lib.gla.ac.uk/login?url=https://www.jove.com/science-education/5026/understanding-concentration-and-measuring-volumes>

45.

PTC The Genetics of Bitter Taste (University of Utah) [Internet]. Available from:
<http://learn.genetics.utah.edu/content/basics/ptc/>

46.

Wooding S. Phenylthiocarbamide: A 75-Year Adventure in Genetics and Natural Selection. Genetics [Internet]. 2006;172(4). Available from:
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1456409/?tool=pmcentrez>

47.

Genetics of Bitter Taste Perception | HHMI BioInteractive [Internet]. Available from:
<https://www.hhmi.org/biointeractive/genetics-bitter-taste-perception>

48.

Risso DS, Kozlitina J, Sainz E, Gutierrez J, Wooding S, Getachew B, et al. Genetic Variation in the TAS2R38 Bitter Taste Receptor and Smoking Behaviors. PLOS ONE. 2016 Oct 6;11(10).

49.

Risso DS, Mezzavilla M, Pagani L, Robino A, Morini G, Tofanelli S, et al. Global diversity in the TAS2R38 bitter taste receptor: revisiting a classic evolutionary PROPosal. Scientific Reports. 2016 Jul;6(1).

50.

DNA Extraction [Internet]. Available from:
<http://learn.genetics.utah.edu/content/labs/extraction/>

51.

PCR: The Polymerase Chain Reaction Video Protocol [Internet]. Available from:
<http://ezproxy.lib.gla.ac.uk/login?url=https://www.jove.com/science-education/5056/pcr-the-polymerase-chain-reaction>

52.

PCR [Internet]. Available from: <http://learn.genetics.utah.edu/content/labs/pcr/>

53.

Polymerase chain reaction (PCR) | HHMI BioInteractive [Internet]. Available from:
<https://www.hhmi.org/biointeractive/polymerase-chain-reaction-pcr>

54.

Prime It DNA Game on the App Store [Internet]. Available from:
<https://itunes.apple.com/us/app/university-of-glasgow-prime-it/id1250174174?mt=8>

55.

Restriction Enzyme Digests | Protocol [Internet]. Available from:
<http://ezproxy.lib.gla.ac.uk/login?url=https://www.jove.com/science-education/5070/restriction-enzyme-digests>

56.

Restriction Endonucleases review [Internet]. Available from:
<https://www.idtdna.com/pages/docs/educational-resources/restriction-endonucleases.pdf?sfvrsn=4>

57.

Restriction Endonucleases [Internet]. Available from:
<http://highered.mheducation.com/olcweb/cgi/pluginpop.cgi?it=swf::535::535::/sites/dl/free/0072437316/120078/bio37.swf::Restriction%20Endonucleases>

58.

DNA Gel Electrophoresis Video [Internet]. Available from:
<http://ezproxy.lib.gla.ac.uk/login?url=https://www.jove.com/science-education/5057/dna-gel-electrophoresis>

59.

Gel Electrophoresis [Internet]. Available from:
<http://learn.genetics.utah.edu/content/labs/gel/>

60.

Linkedn Tips For Students [Internet]. Available from:
<https://university.linkedin.com/linkedin-for-students>

61.

10 LinkedIn Tips for Students & New Grads | Omar Garriott | Pulse | LinkedIn [Internet]. Available from:
<https://www.linkedin.com/pulse/10-tips-students-new-grads-linkedin-omar-garriott>

62.

Higher Flyers. Networking at a Huge Conference [Internet]. Available from:
<https://www.nature.com/naturejobs/2017/170629/pdf/nj7660-691a.pdf>

63.

Levine AG. Networking for nerds: find, access and land hidden game-changing career opportunities everywhere [Internet]. Hoboken, New Jersey: Wiley Blackwell; 2015.
Available from:
<https://www.vlebooks.com/vleweb/product/openreader?id=GlasgowUni&isbn=9781118663554>