

A-Level Biology Super Curricular Activities

Competitions	
30 th April	Unsung Heroes of Science

Taster Events and Online Webinars / Lectures / MOOCs	
23 rd June 11am-3pm	Biological Sciences Taster Day - Royal Holloway, University of London Book Here
23 rd June 14.15pm	UEA Subject Lectures: Natural Selection, Field Research
24 th June 4PM	Trinity Talks – Oxford University Sequencing the Human Genome & Modern Assisted Reproductive Technologies
Available Now	Future Learn Courses – MOOCs (These should be manually logged in Uni-Frog) Next Generation Biosecurity: Responding to 21st Century Biorisks
Date tbc	How Does the Body Use DNA as a Blueprint?
Date tbc	The NHS Explained: How the Health System in England Really Works
Available Now	Why Biology Matters: The Genome and You
Available Now	The Role of Vaccines in Preventing Infectious Diseases and Antimicrobial Resistance
	Bacterial Genomes: From DNA to Protein Function Using Bioinformatics
	The biology of bugs, brains and beasts
On Demand	University of Birmingham Online Masterclasses (You need to sign up to gain access for free) Intensive care physiotherapy (Physiotherapy) Can seaweed prevent intestinal disease? (Biomedical Sciences)

	Monoclonal antibodies as anti-cancer drugs (Biology, Medicine) Supplementary oxygen for respiratory failure (Human Biology, Nursing) The eye: Fact or fiction? (Medicine) Why should I look after my gums? (Dentistry)
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Uni Frog Tasks	
Read, Watch, Listen	Use this area to find Subject specific articles, films, TED Talks and books. Read, Watch, Listen on UniFrog
MOOCs	Use the MOOC function to search online courses in a range of topics. There are 100+ MOOCs that you can start immediately in History. Biology MOOCs

Websites	
Explore - explore some of the big questions that are relevant to us all such as: Could we end disease? Can you choose to be healthy? Are humans more important than other animals? Is it OK to clone a human being?	
STEM - a range of separate biology and cross curricular science activities for students of all ages with a specific section on home and family learning.	
Oxford Research: Putting ticks on the map Poetry in motion – bio-inspired drone technology. Defeating dengue with GM mosquitoes. The loneliness of the long distance seabird. Balancing conservation and commerce in the world's forests	

Podcasts & Videos

[All Creatures Great & Small.](#)- An Oxford University Radio Show –interviews with three academics discussing what got them into their current area of research

[The Naked Scientist](#) radio show, podcasts and more.

[Podbean](#) A Level Biology revision podcasts.

Back Garden Biology A podcast series where Dr Lindsay Turnbull looks at the biology of the back garden.

[Biology TED Talks](#) - short talks of less than 20 minutes on various biology topics.

[Oxford University Biology Research](#)

Wider Reading

Popular Science books recommended by Biology Undergraduates:

Why Evolution is True by Jerry A. Coyne

Bad Science by Ben Goldacre- discusses statistics and the use of evidence in science and the media

The Diversity of Life by E. O. Wilson

Guns, Germs and Steel by Jared Diamond-discusses the effects of Geography and Biology on the success of global civilisations. Chapter 9 should be of particular interest to biologists.

From Cambridge University Reading List for Natural Sciences:

Biology of cells:

♣ How we live and why we die: the secret lives of cells by Lewis Wolpert (Faber and Faber Paperback

♣ Essential Cell Biology by Alberts, et al (2014) 6th Edition Garland

Evolution and behaviour:

• The Animal Kingdom: A very short introduction by Holland, P., OUP 2011

• The Ancestor's Tale: A Pilgrimage to the Dawn of Life by Dawkins, R & Yang, W. Weidenfield & Nicholson (2016

• Endless Forms Most Beautiful by Carroll, S Quercus (2005)