Lucy Cavendish

Academic Enhancement Programme

Biology

Session 4

Post-Materials

Hi everyone,

A few things for you to look at. I’ve included the following exercises which we touched on in the tutorial:

* natural selection and sickle cell anaemia
* PKU
* Cystic fibrosis and eugenics

The BBC article on the origin of SCA is <https://www.bbc.co.uk/news/world-africa-43373247>

The animation of DNA replication is at: <https://dnalc.cshl.edu/resources/3d/04-mechanism-of-replication-advanced.html>

See if you can work out the logic behind the lagging strand replication and the Okazaki fragment! It will really test your understanding of DNA structure and the limitations of polymerase.

I hope you find these interesting/useful. And I hope you enjoyed the sessions! I really enjoyed putting them together and delivering them, even though it was a bit odd teaching to a class I couldn’t see.

Good luck for your A-levels and whatever you choose to do after that.

Best wishes

Dr Paul Weeks