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External links [D.M.M.R. Course Description] Category:Science education

Category:Secondary education in the United Kingdom Category:A-level schools in

EnglandSealed mutation rate The sealed mutation rate is the rate of mutation within a population. The rate is not the same for all populations, and as such, the rate is useful for identifying groups that differ from the general population in an evolutionary sense. For example, populations which have high population densities, as those which live in cities, generally have a higher mutation rate compared to those who live in more remote locations, as is the case with humans in the western world, compared to those in more rural regions, such as in Africa. One notable example is the Giraffe, which has been estimated to have a mutation rate of about 5×10^{-8} per locus per generation. The key method used for measuring the rate of mutation is an analysis of mutations in mitochondrial DNA.

Mitochondrial DNA is maternally inherited, and is passed from a mother to her offspring.

This avoids the issue of evolutionary sorting, which occurs when natural selection acts on mutations that occur in the germline, reducing their frequency in the population. As such, the mitochondrial DNA mutation rate is an accurate representation of the mutation rate within a population. References Category:Population geneticsQ: Best practice to handle local web server downtime I have a web server running on a cloud server which is hosted by Amazon EC2. I am running a single instance of Tomcat7 with Passenger 5. What is the best way to handle a local web server outage? In production I would use nginx in front of Tomcat which would also handle the failover of the instances. I can configure nginx to have a healthcheck or heartbeat that would send an HTTP message to the server every x seconds, and if the message can not be recieved after some threshold time would indicate a problem with the server. The nginx instances could have a config such that it will proxy requests to the web server. On my local development environment I have not configured nginx. I would have the web server handle the failure and failover and send an HTTP message to the web server every x seconds. When I run the local web server it would have a config that would failover to 2d92ce491b

