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Statement of participation

Majid Hassan Mustafa

has completed the free course including any mandatory tests for:

What do genes do?

This 4-hour free course showed how genetic information flows from DNA to RNA to protein. It introduced the concepts of transcription and translation.

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www.open.edu/openlearn

This statement does not imply the award of credit points nor the conferment of a University Qualification. This statement confirms that this free course and all mandatory tests were passed by the learner.

Please go to the course on OpenLearn for full details:

https://www.open.edu/openlearn/science-maths-technology/biology/what-do-genes-do/contentsection-0

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What do genes do?

https://www.open.edu/openlearn/science-maths-technology/biology/what-do-genes-do/content-section-0

Course summary

This free course, What do genes do?, explores how information contained in DNA is used, explaining the flow of information from DNA to RNA to protein. Also introduced are the concepts of transcription (as occurs between DNA and RNA) and translation.

Learning outcomes

By completing this course, the learner should be able to:

- understand how the linear sequence of DNA within a gene is related to the linear sequence of amino acids of a protein
- understand how the information in DNA is carried via RNA to make a protein
- understand how RNA is synthesised from DNA by the process of transcription
- understand where the processes of transcription and translation occur within the cell.

Completed study

The learner has completed the following:

Section 1

Using information stored in DNA

Section 2

One gene-one protein

Section 3

The flow of information from DNA to RNA to protein

Section 4

From DNA to RNA: transcription

Section 5

Where does transcription occur in the cell?

Section 6

Conclusion