

Unit 18:

Genetics and Genetic Engineering

Unit code:

TY30070010

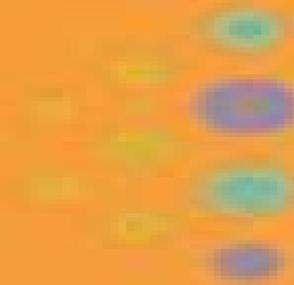
QCF Level 3:

ETEC National

Credits value:

10

Guided learning hours: 60



■ Aims and purpose

The aim of this unit is to provide understanding of the principles of Mendelian genetics and Mendelian knowledge and practical techniques used in commercial, analytical and research laboratories.

■ Unit Introduction

To study genetics is to study the basis of life itself. Building on the knowledge of DNA structure which is covered in the Foundation and Intermediate Subsequent unit, this unit will enable learners to appreciate that genes control all of the characteristics of living organisms. Learners will also understand how the inheritance of cell division and chromosome replication lead to complex patterns of inheritance and mutation.

Students access to DNA knowledge can be used to learn more about molecular biology and genetics and control in both agriculture and forensic epidemiology, monitoring for disease and epidemiology. The tools and the knowledge now available allow manipulation of the blueprint of life and the creation of novel organisms. Current research is moving towards gene therapy which may allow correction of genetic disease such as cystic fibrosis.

Learners will develop an understanding of the techniques at the heart of modern genetics and molecular biology – extracting DNA, PCR/sequencing, transforming cells and applying CRISPR using the golden rule of molecular biology (PCR).

The cutting edge of genetics is moving forward at an extraordinary rate, allowing scientists to extend the applications. Examples can be found in many fields of research such as epidemiology in monitoring for disease and in research for cures. The ever-growing biotechnology industry depends heavily on the work of geneticists and molecular biologists to create both new products and the means to manufacture them.

Applications of genetics in agriculture include increased crop and enhanced nutritional value. Selecting traits for or resistant to pests and disease. Environmental applications often be to crop rotation of species and programs, and to create, control, supply, from the soil.

Learners must also recognise the broader implications of their work. Learners are required to explore the impact of selected examples of genetic technology on society, safety and the ethical value of individual and organisms.

Unit 18 Genetics And Genetic Engineering

S Ben Porath



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