

Unit 18:

Genetics and Genetic Engineering

Unit code:

TVN0070050

QCF Level 3:

BTSC National

Credits value:

10

Guided learning hours: 60



■ Aim and purpose

The aim of this unit is to develop 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 Foundation Techniques unit, this unit will enable learners to appreciate that genes control all of the characteristics of living organisms. Learners will also understand how the mechanisms of cell division and chromosome replication lead to complex patterns of inheritance and evolution.

Modern advances in DNA technology over the past 20 years mean that molecular biology and genetics are central to fields as diverse as forensic epidemiology, monitoring for disease and epidemiology. This topic and the knowledge now available allow manipulation of the blueprint of life and the creation of novel organisms. Current research is moving towards gene therapies which target specific components 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, DNA fingerprinting, transforming cells and analysing DNA using the polymerase chain reaction (PCR).

The cutting edge of genetics is moving forward at an extraordinary rate, creating enormous potential for applications. Genetically can be found in many fields of everyday work, in epidemiology in monitoring for disease and in searching 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 mass-produce them.

Applications of genetics in agriculture include modified crops with enhanced nutritional value. Banned from the supermarket for pests and diseases. Environmental applications allow us to track migration of species and populations, and to identify unusual, illegal, rivers from the water.

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 values of individuals and organisations.

Unit 18 Genetics And Genetic Engineering

Mr. Rohit Manglik



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