

Analysis of Nucleic Acids

Learning Outcomes

1. Demonstrate a critical understanding of eukaryotic and prokaryotic mutation and their relevance to human health and disease.
2. Demonstrate an awareness of the fundamental methods of molecular biology.
3. Demonstrate a critical awareness of current methods for mutation detection and their applications.

Core Dimensions

CD1 Communication

Since learners are asked to demonstrate knowledge all learning outcomes will map to level 2 "Communicate with a range of people on a number of matters."

in particular items a-c

- a) communicates with a range of people on a range of matters in a form that is appropriate to them and the situation
- b) improves the effectiveness of communication through the use of communication skills
- c) constructively manages barriers to effective communication

CD2 Personal and people development

Similarly all learning contributes to personal development and again the need to demonstrate knowledge will involve others, thus mapping to level 2 "Develop own skills and knowledge and provide information to others to help their development"

In particular a-c & f

- a) assesses and identifies:
 - feedback from others on own work
 - how s/he is applying knowledge and skills in relation to the KSF outline for the post
 - own development needs and interests in the current post
 - what has been helpful in his/her learning and development to date
- b) takes an active part in the development review of own work against the KSF outline for the post with their reviewer and suggests areas for learning and development in the coming year
- c) takes responsibility for own personal development and takes an active part in learning opportunities
- f) offers information to others when it will help their development and/or help them meet work demands.

Other core dimensions

No specific mapping

Specific Dimensions

Health and Wellbeing

HWB8 Biomedical investigations and interventions

The knowledge gained in satisfying these learning outcomes should be equivalent to that required for level 3 “Plan, undertake, evaluate and report biomedical investigations and/or interventions”

a) evaluates relevant information to plan the range and sequence of biomedical investigations/interventions required and determines:

- the specific procedures to be undertaken
- unusual aspects of cases (including any particular risks)
- the urgency with which procedures need to be carried out
- relevant legislation, policies and procedures

b) selects appropriate methods, techniques, equipment and analytical methods, in line with the resources available and evidence of effectiveness

c) carries out and monitors investigations/interventions in line with established procedures and protocols, taking the appropriate action in the case of incidents which put at risk health and safety or the quality of specimens

d) evaluates the outcomes of investigations/interventions and takes appropriate action in relation to anomalous or poor quality results or insufficient information

e) collates and interprets findings and outcomes and reports them to relevant colleagues in the appropriate format, clearly stating any limitations

f) provides valid information, advice and recommendations in relation to diagnosis, prognosis, treatment and individual management.