Module Specification

Tissue and Tumour Science

Version: 2025-26, v3.0, Approved

Contents

Part 1: Information

Module title: Tissue and Tumour Science

Module code: USSJXT-15-2

Level: Level 5

For implementation from: 2025-26

UWE credit rating: 15

ECTS credit rating: 7.5

College: College of Health, Science & Society

School: CHSS School of Applied Sciences

Partner institutions: None

Field: Applied Sciences

Module type: Module

Pre-requisites: Infection and Disease 2024-25, Infection and Disease 2025-26

Excluded combinations: None

Co-requisites: None

Continuing professional development: No

Professional, statutory or regulatory body requirements: None

Part 2: Description

Overview: This module covers the hallmarks of cancer and how these can be investigated in clinical and research settings to aid patient diagnosis and prognosis.

Pre-requisites: Students must have passed USSKA7-30-1 Infection and Disease before starting this module.

Features: Not applicable

Educational aims: This modules aims to help prepare students for L6 modules such as cellular pathology and complement other L5 modules such as cell signalling.

Outline syllabus: Outline Syllabus: Indicative content of this module is as follows:

Cancer Biology:
From basic biology to clinical application. This section will introduce some of the key concepts of the diagnosis and prognosis of neoplasia before exploring the multi-faceted “hallmarks of cancer” model. Each of these key features of malignant disease will be outlined and linked together to give a cohesive overview of cancer cell biology and treatment.

Cancer Case Studies:
These sessions will introduce students to other elements of cancer such as treatment (mechanisms of drugs/regimes/novel therapies), cancer predisposition syndromes, epidemiology and aetiology of common types of cancer.

Part 3: Teaching and learning methods

Teaching and learning methods: The majority of the taught material will be delivered as lectures. Practical classes will be used to give hands-on experience of preparing tissue samples and diagnostic analysis, whilst supporting concepts covered in lectures. Tutorials will be used to allow analysis and discussion of the laboratory results generated. Students are expected to prepare for tutorial sessions by carrying out designated reading tasks.

Module Learning outcomes: On successful completion of this module students will achieve the following learning outcomes.

MO1 Understand the key properties of malignant cells as described by the “Hallmarks of cancer” model and the basic cell biology underpinning each.

MO2 Understand how the hallmarks of cancer can be investigated and utilised within the initiation, promotion, progression and treatment of cancer.

Hours to be allocated: 150

Contact hours:

Independent study/self-guided study = 114 hours

Face-to-face learning = 36 hours

Reading list: The reading list for this module can be accessed at readinglists.uwe.ac.uk via the following link https://uwe.rl.talis.com/modules/ussjxt-15-2.html

Part 4: Assessment

Assessment strategy: Assessment 1: Written Assignment (2000 words maximum) Laboratory report. The laboratory report links the lectures to the practical sessions, demonstrating knowledge of concepts of clinical practice. The students will need to research and document the correct clinical interpretation of their own data and its impact on both patient diagnosis and prognosis in a case study-based approach. This assignment is supported through both in-class tutorials and online support materials.

Assessment tasks:

Written Assignment (First Sit)
Description: Laboratory Report (2000 words).
Weighting: 100 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO1, MO2

Written Assignment (Resit)
Description: Laboratory Report (2000 words).
Weighting: 100 %
Final assessment: Yes
Group work: No
Learning outcomes tested: MO1, MO2

Part 5: Contributes towards

This module contributes towards the following programmes of study:

Biomedical Science [Frenchay] BSc (Hons) 2023-24

Biomedical Science {Foundation} [Frenchay] BSc (Hons) 2023-24

Biomedical Science [Frenchay] MSci 2023-24

Biomedical Science {Foundation} [Frenchay] MSci 2023-24

Biomedical Science [Frenchay] - WITHDRAWN MSci 2024-25

Biomedical Science [Frenchay] BSc (Hons) 2024-25

Biomedical Science [Frenchay] BSc (Hons) 2024-25

Biomedical Science [Frenchay] BSc (Hons) 2022-23

Biomedical Science [Frenchay] MSci 2022-23