

Summary Information

Module Code	7165SPOSCI
Formal Module Title	Contemporary Research in Exercise Physiology
Owning School	Sport and Exercise Sciences
Career	Postgraduate Taught
Credits	20
Academic level	FHEQ Level 7
Grading Schema	50

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Richard Kirwan	Yes	N/A

Module Team Member

Contact Name	Applies to all offerings	Offerings
Rob Erskine	Yes	N/A
Jatin Burniston	Yes	N/A
Jonathan Jarvis	Yes	N/A
Julien Louis	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
--------------	--------------------------	-----------

Teaching Responsibility

LJMU Schools involved in Delivery

Sport and Exercise Sciences

Learning Methods

Learning Method Type	Hours
Lecture	12
Workshop	12

Module Offering(s)

Offering Code	Location	Start Month	Duration
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	This is a student-centred learning module that uses the Journal Club format to bring your attention to important models and 'hot topics' in relation to sport, exercise and health. Current physiology investigations rely heavily on research models, molecular techniques and the advances in technology that have arisen from this field. Therefore, a central aim of this module is to provide fundamental knowledge that will enable the synthesis and critical appraisal of the latest findings from cell, animal and population studies. This module also aims to develop emerging (infographic and 3 minute thesis) scientific communication (written and oral) skills and the ability to critically appraise scientific literature.
-------------	--

Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Accurately and effectively communicate complex scientific information
MLO2	Critically evaluate the appropriateness of experimental designs and research methodologies
MLO3	Synthesize ideas or information in innovative ways to generate transformative solutions or construct arguments that integrate and extend knowledge
MLO4	Demonstrate deep theoretical understanding of exercise physiology, e.g. encompassing molecular mechanisms and whole-body integrative physiology
MLO5	Develop critical responses to existing theoretical discourses, methodologies or practices and suggest new concepts or approaches

Module Content

Outline Syllabus

Cells as models and methods in exercise physiology
Rodents as models and methods in exercise physiology
Nutrition and physical activity across the lifespan
The preventative effects of exercise against non-communicable diseases

Module Overview

This module encompasses a series of keynote lectures highlighting prominent research themes within the Research Institute for Sport and Exercise Sciences. The module aims to develop scientific communication (written and oral) skills and the ability to critically appraise scientific literature.

Additional Information

Contemporary issues in the field are delivered in lecture format, and then critical understanding of the material and scientific writing skills are discussed in a student 'journal club' environment. Reading for each week is determined by articles selected for the Journal club.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Report	Infographic & 300 word legend	40	0	MLO3, MLO2, MLO1
Presentation	Oral presentation & viva	60	0	MLO3, MLO5, MLO2, MLO1, MLO4