

Liverpool John Moores University

Title: VIRAL ZOOSES
Status: Definitive
Code: **7105VMBMOL** (123652)
Version Start Date: 01-08-2021

Owning School/Faculty: Pharmacy & Biomolecular Sciences
Teaching School/Faculty: Pharmacy & Biomolecular Sciences

Team	Leader
George Sharples	Y
Jo Foulkes	

Academic Level: FHEQ7 **Credit Value:** 10 **Total Delivered Hours:** 22
Total Learning Hours: 100 **Private Study:** 78

Delivery Options

Course typically offered: Summer

Component	Contact Hours
Tutorial	20

Grading Basis: 50 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Exam	Theory exam	100	2

Aims

1. To develop an understanding of those viruses transmitted by insect vectors for which humans and other animals are often dead-ends as hosts
2. To develop an understanding of those viruses transmitted to humans by other mammalian vectors and their role in emerging viral diseases
3. To critically evaluate the problems of controlling viral infections spread by insects and mammals

Learning Outcomes

After completing the module the student should be able to:

- 1 Demonstrate an in-depth knowledge of the various viruses transmitted by insects, mammals such as bats and rodents, and their effects
- 2 Discuss the transmission of these viruses amongst their host species, the diseases they cause and evaluate their worldwide effects
- 3 Critically evaluate the strategies for survival these viruses employ, and the potential control mechanisms available to prevent infections in humans and important veterinary species

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Exam	1	2	3
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Outline Syllabus

Important zoonotic infections (Yellow Fever, Dengue, West Nile, Lassa Fever, Ebola, Hantaviruses, Nipah, Rabies)

Symptoms and effects of acute viral infections with these viruses

Zoonotic and epizootic infections and emerging viral diseases

The worldwide economic impact of these infections

Control of rodents, bats and insect diseases

The consequences of illegal and legal importation of exotic animals and 'bushmeat'

Passive and active vaccination, antiviral drugs and control

Potential effects on zoonotic infections of global warming, deforestation, agricultural changes, water shortages etc.

Learning Activities

Distance learning with tutorial support

Learning materials delivered by VLE (Blackboard) to include directed reading, online lectures, online assessments with feedback, online discussions

Notes

There will be particular emphasis on developing independent learning skills and IT capability to access and extract relevant scientific information via Blackboard and databases available from LJMU. Online literature searches and evaluation of relevant scientific and popular literature will be key aspects, together with development of communication skills. An interactive reading list, including e-texts, will be made available via VLE.

This module will be offered as a single module CPD.

ADDITIONAL INFORMATION REQUIRED FOR SINGLE-MODULE CPD AWARDS

(in lieu of a Programme Specification)

No specific benchmarks are available for this module, but the learning outcomes at least meet, if not exceed, those stipulated in the relevant qualification descriptors for a higher education qualification at level 7 (Master's degree characteristics) as defined by QAA, Sept 2015. The module has also been informed by the benchmark statement for Biomedical Science June 2015.

The module is delivered by Blackboard, which is supported by a Virology Tutor. Study mode is part-time distance learning and lasts for 12 weeks. Attendance is only required for the module examination. Intake is every May.

The criteria for admission to the module require that candidates meet the criteria for admission to the MSc Virology programme (31066).

The final award is Continuing Professional Development in Viral Zoonoses, 10 credits at Level 7.

The students have access to a module Blackboard site and the University's other range of electronic support such as access to the electronic library facilities. The module content is regularly updated on the Blackboard site including contemporary reading lists and links to journal articles. Students have access to the community site for Virology. All students are assigned a personal Virology Tutor for support and guidance through the module, this maybe via email or online tutorials. There is also access to the module leader through phone contact and email. Module and CPD guides are also provided, which provide a range of information.

The programme is assessed and run in line with the Academic Framework <http://www.ljmu.ac.uk/eaqs/121984.htm>

The module is accredited by The Institute for Biomedical Science (Sept 2015- Aug 2020). The module forms part of the MSc Virology programme (30966) which was reviewed in June 2016.

The methods for improving the quality and standards of learning are as follows:

- Annual monitoring Review;
- Liaison and feedback from the students;
- Reports from External Examiner;
- Programme team ensuring the module reflects the values of the current teaching and learning strategy;
- Module leader and/or Specialist Virology author updating knowledge and skills to ensure these remain current and relevant.

The module is included in the programme specification for the MSc Virology programme (31066). The module is aligned with the same MSc Virology module for annual monitoring and external examining purposes.