



Bluetongue Diagnostics Course at Pirbright Laboratory, UK

Date: 26th April - 7th May 2010
Duration: 2 weeks
Cost: £750 per week = Total of £1500
Accommodation: £15 per night – meals NOT included

Course Co-ordinator : Chris Oura
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Topics to Be Covered in Course

VIRUS ISOLATION

Passage of orbiviruses on cell culture (BHK-21, KC insect cells)
Preparation of growth media for BHK-21, KC cells
Preparation of maintenance media for BHK-21, KC cells

DIAGNOSTIC TESTS

Preparation of field and experimentally infected tissue samples for virus and virus antigen detection and identification
Preparation of 96-well microtitre BHK-21 and KC cell plates
Titration of virus samples on 96-well plates
Isolation of orbiviruses in embryonated hen eggs
Serum Neutralisation test (SNT).
Antibody detection ELISA
Robotic RNA extraction
Real-time RT-PCR
Serotype-specific RT-PCR,
Sequencing and phylogenetic analysis.

VECTOR IDENTIFICATION AND INFECTION

Identification of Culicoides midges
Intrathoracic inoculation of insects
Membrane feeding insects
Insects homogenisation

Lectures will be given by staff at Pirbright throughout the course on related subjects. Subjects will be covered by a mixture of lectures demonstrations and practicals.

The contents of the course may be amended according to the interests of the participants.

CLOSING DATE 21 FEBRUARY 2010