



CONTAMINATION OF SURFACE WATER BY *CRYPTOSPORIDIUM* SPP.:
A WORKSHOP ON MOLECULAR BIOLOGICAL TECHNIQUES AND RISK ASSESSMENT
Wednesday 3rd to Friday 5th June 2009

Aims of the Workshop

Introduction to environmental sampling strategies for slurry soil and water
DNA isolation using specific methodologies (70% lab work, 30% lecture) (oocyst capture, DNA extraction)
Introduction to qPCR theory and practice (100 % lecture)

Thursday June 4th 2009

09:00 - 09:30 Introduction to environmental sampling strategies
09:30 - 10:30 Sample preparation (groups working on water, soil or slurry samples)
11:00 - 12:00 DNA extraction PART 1 (80% lab work, 20% lecture)

12:30 - 13:30 Lunch

13:30 - 15:00 DNA extraction PART 2 (80% lab work, 20% lecture)
15:30 - 17:00 Introduction on real time PCR
16:30 - 17:30 Real-time PCR experimental design

Friday June 5th 2009

09:00 - 09:30 Presentation of the instruments and preparation of PCR protocols
09:30 - 10:30 Setting up of qPCR experiments using Roche LC480 and Stratagene MX3005
11:00 - 12:30 Biostatistics Lecture 1

12:30 - 13:30 Lunch

13:30 - 15:00 Biostatistics Lecture 2
15:30 - 17:00 Analysis of the PCR data produced
16:30 - 17:30 Round table discussion on analysis of environmental data using qPCR