

Leverhulme Trust, Royal Society and University of Ghana: workshop on molecular biology, pathogenesis, and diagnostics of neglected diseases

		Faculty Talks	Student Presentations	Lab work	Discussion Groups	
		Monday 6	Tuesday 7	Wednesday 8	Thursday 9	Friday 10
8.30	Student Presentations	Welcome and Introductions to Students, Faculty and the Course	Successful diagnostics in use today	Journal Club 1 (4 groups)	Identification of human or livestock diseases that require a new diagnostic	Journal Club 2 (3 groups)
9.30	Research Seminars	Why the shape of trypanosomes is important Jack Sunter	How does the trypanosome interact with its host Mark Carrington	Characterization of lifetime infections with trypanosomes in individual cattle in Ghana Theresa Manful Gwira	Why do we need protein structures? Simone Weyand	Careers in Science in Ghana/Ghana Biochemical Society Nana Yaw Asare Yeboah
10.30	Coffee					
11.00		What are diagnostics used for? Mark Carrington	PCR and PCR diagnostics Lydia Mosi	PCR from blood DNA prepared from local cattle	Bioinformatics and analysis of sequences James Abugri	Testing experimental species-specific oligos
		DNA melting, why Mg2+ is important in PCR reactions	Design and set up PCR		Optimising PCR sensitivity	
13.00	Lunch					
				Antibody capture and antigen capture diagnostics Jack Sunter		
19.00	Dinner					

Monday 13	Tuesday 14	Wednesday 15	Thursday 16	Friday 17
Recombinant protein production Mark Carrington	Journal Club 3 (4 groups)	Design a PCR-based diagnostic	Journal Club 4 (3 groups)	Design an antigen based diagnostic
Proteomic Analysis of Persister Drug Response in Mycobacterium bovis (BCG) Patrick Arthur	Monica Mugnier	Erythrocytes invasion mechnisms Gordon Awandare	Jayne Raper	Neil Stahl
Making Green Fluorescent Protein 1	Making Green Fluorescent Protein 2	Microscopy of some selected pathogenic organisms	Participant designed experiments	Participant designed experiments
How do you identify a diagnostic marker Mark Carrington	Science funding Gordon Awandare			