

Molecular Mycology: A Practical Approach
22nd February – 11th March 2016

DATE		TIME	LOCATION	ACTIVITY	LECTURE TITLE / DESCRIPTION OF ACTIVITY	LECTURER
Mon	22 Feb	08:45	ERC Seminar Room 8	Welcome and introduction to the course: Dr Lilyann Novak-Frazer		LNF
Mon	22 Feb	09:00-10:00	ERC Seminar Room 8	Lecture (1h)	Nucleic acids 1, Extraction, analysis and hybridisation	CK
Mon	22 Feb	10:30-11:30	ERC Seminar Room 8	Lecture (1h)	Nucleic acids 2, Polymerase Chain Reaction	CK
Mon	22 Feb	12:00-13:00	ERC Seminar Room 8	Lecture (1.5h)	Health & Safety Induction to the Laboratories	SS (NWLC)
Mon	22 Feb	14:00-15:30	ERC Laboratory	Practical (1.5h)	Good Laboratory Practice Part I : Collecting Samples	MDR/LNF
Tue	23 Feb	10:30-12:30	ERC Seminar Room 8	Lecture (2h)	Quantitative PCR – Part I: Basic Theory	MJ
Tue	23 Feb	14:00-16:00	Committee Room	PBL (2h)	Problem Based Learning I	SS (CEF)
Wed	24 Feb	09:00-11:00	ERC IT Training Room 1	Lecture (2h)	Primer Design	FG
Wed	24 Feb	11:30-13:30	ERC Seminar Room 5	Lecture (2h)	Sequencing	CK
Wed	24 Feb	14:30-16:30	ERC Seminar Room 5	Lecture (2h)	Introduction to Molecular Medical Mycology	MDR
Thu	25 Feb	11:30–14:00	ERC Laboratory	Practical (2.5h)	Basic Techniques in Molecular Biology - Demonstration	LNF
Thu	25 Feb	14:30–16:30	ERC Seminar Room 6	Journal club (2h)	Journal club I	LNF
Fri	26 Feb	09:00-12:00	ERC IT Training Room 1	Tutorial (3h)	Primer Design	LNF
Fri	26 Feb	13:00–15:00	ERC laboratory	Practical (2h)	Good Laboratory Practice, Part 2 Analysis	MDR/LNF

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Mon	29 Feb	13:00–17:00	ERC laboratory	Practical (4h)	DNA Extraction	LNf/RM
Tue	01 Mar	09:00-11:00	ERC Seminar Room 5	Lecture (2h)	Choosing Diagnostic Tests Effectively	MDR
Tue	01 Mar	11:30-13:30	ERC Seminar Room 6	Lecture (2h)	Whole Genome Sequencing	PB
Tue	01 Mar	14:00-16:00	ERC Seminar Room 8	PBL (2h)	Problem Based Learning II	SS (CEF)
Wed	02 Mar	10:00-12:00	ERC Seminar Room 7	Lecture (2h)	Typing Fungi, Phylogeny and Fungal Genomics	PB
Wed	02 Mar	14:00-16:00	ERC Seminar Room 7	Journal Club (2h)	Journal Club II	PB
Thu	03 Mar	09:00-11:00	ERC Seminar Room 8	Lecture (2h)	Quantitative PCR - Application	MJ
Thu	03 Mar	13:00–17:00	MRCM Clean Room	Practical (4h)	Aspergillus PCR - Sample Preparation, PCR and Analysis	RM
Fri	04 Mar	Study Day				

DATE		TIME	LOCATION	ACTIVITY	LECTURE TITLE / DESCRIPTION OF ACTIVITY	LECTURER
Mon	07 Mar	09:00-13:00	ERC Laboratory	Practical (4h)	PCR	LNF
Tue	08 Mar	09:15-11:15	ERC IT Training Room 1	Lecture (2h)	Bioinformatics	JG
Tue	08 Mar	11:30-13:30	ERC Committee Room	Lecture (2h)	Clinical and laboratory PCR validation	MB
Tue	08 Mar	14:00-16:00	ERC Committee Room	PBL (2h)	Problem Based Learning III	SS (CEF)
Wed	09 Mar	09:00-13:00	ERC Laboratory	Practical (4h)	PCR Analysis and Sequencing	LNF
Wed	09 Mar	14:00 – 16:00	ERC Seminar Room 6	Journal Club (2h)	Journal Club III	PB
Thu	10 Mar	09:00-11:00	ERC Training Room 1	Tutorial (2h)	Sequencing	LNF
Thu	10 Mar	11:30-12:30	ERC Seminar Room 6	Lecture (1h)	Fungal qPCR and Direct Detection of Mutations	LNF
Thu	10 Mar	13:00-17:00	ERC Laboratory	Practical (4h)	How to Design a Mycology Laboratory (Optional : Attendance only)	MDR/RR
Fri	11 Mar	09:00-11:00	ERC IT Training Room	Tutorial (2h)	Sequencing and Analysis of Unknowns	LNF
Fri	11 Mar	12:00-16:00	ERC Seminar Room 5	Practical (4h)	qPCR with Stratagene software	LNF
Course closes: Professor Malcolm Richardson/Dr Lily Novak Frazer						

Short breaks, as appropriate, to be provided between/during sessions

3-week course (22nd February – 11th March 2016): Lecture hours: 24.5, Practical session hours: 48.5, Total contact hours: 73

Key: Lecturers

CK: Dr C Kershaw

MJ: Dr M Jennings

MDR: Professor Malcolm Richardson

LNF: Dr Liliann Novak-Frazer

SS (NWLC): Dr Simon Stephan

SS (CEF): Dr Shomik Sibartie

JG: Dr Jane Gilsenan

PB: Dr Paul Bowyer

DWD: Professor David Denning

RM: Rikesh Masania

FG: Dr Fabio Gsaller

DRAFT