

MIMS Lecture Timetable 2019-20

Course Organiser: Dr Marc de la Roche (mad58@cam.ac.uk)
Lectures are on Monday at **12pm** and Tuesday and Thursday at **9am**
in the **BABBAGE lecture theatre**, unless noted otherwise below.

MICHAELMAS TERM: Metabolism in Health and Disease			
Oct 10 NOTE. This Lecture is at 12.00	(1)	Introduction to MIMS: course aims, content, organisation, and assessment	Dr A Grace
Oct 14, 15	(2)	Prologue: Diabetes mellitus as a metabolic disease	Dr G Yeo
Oct 17, 21, 22, Oct 24, 28, 29	(6)	Introduction to macromolecules. Protein structure and enzyme catalysis	Dr Mott
Oct 31, Nov 4, 5, 7, 11, 12, 14, 18	(8)	Bioenergetics and metabolism	Dr R W Broadhurst (1) Prof K Lilley (2-4) Dr S Virtue (5-7) Dr Giles Yeo (8)
Nov 19, 21, 25, 26, 28	(5)	Membrane dynamics and function; signalling by hormones	Prof C Taylor
Dec 2, 3	(2)	Proteins and molecular recognition	Dr H Mott
Dec 5	(1)	Epilogue	Dr G Yeo
LENT TERM: The Genome in Health and Disease			
Jan 16	(1)	Prologue: Cancer as a molecular disease	Dr T Littlewood
Jan 20, 21, 23, 27, 28	(5)	Organisation, replication and repair of genomes	Prof L Pellegrini
Jan 30 Feb 3, 4, 6, 10	(5)	Transcription, translation and control	Prof E Miska
Feb 11, 13, 17, 18, 20, 24, 25	(7)	Genetics in human and animal medicine	Prof E Murchison (1-4) Prof A Ferguson-Smith (5-8)
Feb 27, Mar 2	(2)	Cell cycle	Dr P Zegerman
Mar 3, 4 (note Wed Mar 4 at 12 noon)	(2)	Cell death	Prof P Meier
Mar 9	(1)	Molecular biology of cancer	Dr T Littlewood
EASTER TERM: Translating biochemistry and genetics to the clinic			
Apr 23, 27	(2)	Imaging Tumours	Dr A Wright
Apr 28 Vet lecture in Plant Sciences	(1)	Nutrition and Preventive Medicine Clinical Aspects of Energy Metabolism in Animals	Prof N Wareham Dr P Watson (vets)
Apr 30	(1)	Genetics revision session and preparation for exams	Prof E Murchison and/or Prof A Ferguson-Smith
May 5	(1)	Revision session for Prof Taylor's lectures	Prof. C Taylor
May 7	(1)	Revision session to be confirmed	TBC

MIMS Practical Timetable 2019-20

Please note that the practicals and Problem Based Learning sessions are a compulsory part of this course.
It is MANDATORY that you sign in for each session and failure to do so could result in you failing the course

The MIMS practical course has several components, as described in the introduction to this handbook. During the year there will be 3 laboratory-based practicals, 3 discussion sessions linked to the practicals, 2 problem-based-learning exercises (PBL), and 1 computer-based exercise. These sessions are normally held in the Part I Teaching Facility of the Biochemistry Department Hopkins Building on the Downing Site, with the exception of the computer-based exercise, which takes place in the Craik Marshall Building on the Downing Site.

Michaelmas Term	Problem-based learning 1	A topic related to Michaelmas Term lectures
	Practical 1 and associated discussion session	Proteins in biochemistry and medicine
Lent Term	Problem-based learning 2	A topic related to Lent Term lectures
	Practical 2 and associated discussion session	Mitochondria and metabolism
Easter Term	Practical 3 and associated discussion session	DNA analysis: PCR and restriction mapping
	Computer-based exercise	Bioinformatics

To get to the Part I Teaching Facility of the Biochemistry building, go into the Downing Site by the vehicle entrance in Tennis Court Road opposite Pembroke College. Turn right before the parking barrier, following the road, and then bear to the left walking parallel to the stem of the T-shaped Biochemistry building (1960s pebble-dash cladding on your right). You will see a door at the end of the building with a sign identifying the Department of Biochemistry. There are steps down to the laboratory and steps up to the Teaching Rooms. Your first sessions (Problem-based learning) will take place in one of the two Teaching Rooms, depending which SET (see below) you have been assigned to. Please note that the Teaching Facility cannot be reached from the main entrance to the building in Tennis Court Road. The Hopkins Building and Craik Marshall Building are on the map at <http://map.cam.ac.uk/#/annotate/adapters/v4.json?mp=down;tl=Downing%20Site>

Essential Preparation for Practical Classes – you **MUST** act on these points:

- (i) Before your first laboratory-based practical session you **MUST** read the pages about **SAFETY** at the start of the Handbook. The last of those pages is a form that you **MUST** sign, and will be collected from you during the session. You must wear a laboratory coat and safety spectacles for all practicals.

- (ii) You should also read the introductory material in the folder in advance of the first practical, and the pages that refer to each practical before the practical session.
- (iii) The MIMS Moodle Site has a link to a video of about the pipettes that you will use in your practicals. Please ensure you view this in advance of the first session.

STUDENT ALLOCATION TO PRACTICAL SESSIONS

You will have been notified of the SET to which you have been assigned for practical sessions. These SETS are designated **MI-MI8 for medics** and **VI-V4 for vets**. The SETS are combined into GROUPS and allocated to the components of the MIMS practical course as shown in the tables for each term set out below.

Note on times and venues

- All **laboratory-based practicals** are 10 am - 12 noon and 2 - 4 pm. All members of a GROUP attend the same session.
- All **Discussions** are 10 am - 12 noon, held in the laboratory. All members of a GROUP attend the same session.
- **PBL sessions** (MT and LT) are 2 - 4 pm from Monday - Thursday, **but are 10am - 12pm on Friday**. Each Group is halved in size to its component SETS for the PBL sessions, which are held, in parallel, in adjacent Teaching Rooms (TR1 and TR2).
- The **computer-based sessions** are held in the Bioinformatics teaching room in the CRAIK Marshall Building. Students are assigned to a morning (10 am - 12 noon) or afternoon (2 - 4 pm) session.

**Do Not Forget to Sign In
For These Sessions**

Failure to do so could result in you failing the course

MIMS Practicals – Michaelmas Term 2019

GROUP	PBLI launch Venue = Teaching Rooms (TR1, TR2)	Practical I Venue = Lab 10-12 & 2-4	PBLI report Venue = Teaching Rooms (TR1, TR2)	Discussion I Venue = Lab 10-12
Group A = Set M1 + Set M2	M1 Mon 28 Oct 2-4 in TR1 M2 Mon 28 Oct 2-4 in TR2	Mon 4 Nov	M1 Mon 11 Nov 2-4 in TR1 M2 Mon 11 Nov 2-4 in TR2	Mon 18 Nov
Group B = Set M3 + Set M4	M3 Tue 29 Oct 2-4 in TR1 M4 Tue 29 Oct 2-4 in TR2	Tue 5 Nov	M3 Tue 12 Nov 2-4 in TR1 M4 Tue 12 Nov 2-4 in TR2	Tue 19 Nov
Group C = Set V1 + Set V2	V1 Wed 30 Oct 2-4 in TR1 V2 Wed 30 Oct 2-4 in TR2	Wed 6 Nov	V1 Wed 13 Nov 2-4 in TR1 V2 Wed 13 Nov 2-4 in TR2	Wed 20 Nov
Group D = Set M5 + Set M6	M5 Thu 31 Oct 2-4 in TR1 M6 Thu 31 Oct 2-4 in TR2	Thu 7 Nov	M5 Thu 14 Nov 2-4 in TR1 M6 Thu 14 Nov 2-4 in TR2	Thu 21 Nov
Group E = Set M7 + Set M8 + Set M9 + Set M10	M7 & M8 Fri 1 Nov 10-12 in TR1 M9 & M10 Fri 1 Nov 10-12 in TR2	Fri 8 Nov	M7 & M8 Fri 15 Nov 10-12 in TR1 M9 & M10 Fri 15 Nov 10-12 in TR2	Fri 22 Nov
Group F = Set M13 + Set M14	M13 Mon 21 Oct 2-4 in TR1 M14 Mon 21 Oct 2-4 in TR2	Mon 28 Oct	M13 Mon 4 Nov 2-4 in TR1 M14 Mon 4 Nov 2-4 in TR2	Mon 11 Nov
Group G = Set M15 + Set M16	M15 Tue 22 Oct 2-4 in TR1 M16 Tue 22 Oct 2-4 in TR2	Tue 29 Oct	M15 Tue 5 Nov 2-4 in TR1 M16 Tue 5 Nov 2-4 in TR2	Tue 12 Nov
Group H = Set V3 + Set V4	V3 Wed 23 Oct 2-4 in TR1 V4 Wed 23 Oct 2-4 in TR2	Wed 30 Oct	V3 Wed 6 Nov 2-4 in TR1 V4 Wed 6 Nov 2-4 in TR2	Wed 13 Nov
Group I = Set M17 + Set M18	M17 Thu 24 Oct 2-4 in TR1 M18 Thu 24 Oct 2-4 in TR2	Thu 31 Oct	M17 Thu 7 Nov 2-4 in TR1 M18 Thu 7 Nov 2-4 in TR2	Thu 14 Nov
Group J = Set M11 + Set M12	M11 Fri 25 Oct 10-12 in TR1 M12 Fri 25 Oct 10-12 in TR2	Fri 1 Nov	M11 Fri 8 Nov 10-12 in TR1 M12 Fri 8 Nov 10-12 in TR2	Fri 15 Nov

MIMS Practicals – Lent Term 2020

Set composition of groups	PBL 2 launch Venue = Teaching Rooms (TR1, TR2)	Practical 2 Venue = Lab 10-12 & 2-4	PBL2 report Venue = Teaching Rooms (TR1, TR2)	Discussion 2 Venue = Lab 10-12
Group A = Set M1 + Set M2	M1 Mon 20 Jan 2-4 TR1 M2 Mon 20 Jan 2-4 TR2	Mon 27 Jan	M1 Mon 3 Feb 2-4 TR1 M2 Mon 3 Feb 2-4 TR2	Mon 10 Feb
Group B = Set M3 + Set M4	M3 Tue 21 Jan 2-4 TR1 M4 Tue 21 Jan 2-4 TR2	Tue 28 Jan	M3 Tue 4 Feb 2-4 TR1 M4 Tue 4 Feb 2-4 TR2	Tue 11 Feb
Group C = Set V1 + Set V2	V1 Wed 22 Jan 2-4 TR1 V2 Wed 22 Jan 2-4 TR2	Wed 29 Jan	V1 Wed 5 Feb 2-4 TR1 V2 Wed 5 Feb 2-4 TR2	Wed 12 Feb
Group D = Set M5 + Set M6	M5 Thu 23 Jan 2-4 TR1 M6 Thu 23 Jan 2-4 TR2	Thu 30 Jan	M5 Thu 6 Feb 2-4 TR1 M6 Thu 6 Feb 2-4 TR2	Thu 13 Feb
Group E = Set M7 + Set M8 + Set M9 + Set M10	M7 & M8 Fri 24 Jan 10-12 TR1 M9 & M10 Fri 24 Jan 10-12 TR2	Fri 31 Jan	M7 & M8 Fri 7 Feb 10-12 TR1 M9 & M10 Fri 7 Feb 10-12 TR2	Fri 14 Feb
Group F = Set M13 + Set M14	M13 Mon 27 Jan 2-4 TR1 M14 Mon 27 Jan 2-4 TR2	Mon 3 Feb	M13 Mon 10 Feb 2-4 TR1 M14 Mon 10 Feb 2-4 TR2	Mon 17 Feb
Group G = Set M15 + Set M16	M15 Tue 28 Jan 2-4 TR1 M16 Tue 28 Jan 2-4 TR2	Tue 4 Feb	M15 Tue 11 Feb 2-4 TR1 M16 Tue 11 Feb 2-4 TR2	Tue 18 Feb
Group H = Set V3 + Set V4	V3 Wed 29 Jan 2-4 TR1 V4 Wed 29 Jan 2-4 TR2	Wed 5 Feb	V3 Wed 12 Feb 2-4 TR1 V4 Wed 12 Feb 2-4 TR2	Wed 19 Feb
Group I = Set M17 + Set M18	M17 Thu 30 Jan 2-4 TR1 M18 Thu 30 Jan 2-4 TR2	Thu 6 Feb	M17 Thu 13 Feb 2-4 TR1 M18 Thu 13 Feb 2-4 TR2	Thu 20 Feb
Group J = Set M11 + Set M12	M11 Fri 31 Jan 10-12 in TR1 M12 Fri 31 Jan 10-12 in TR2	Fri 7 Feb	M11 Fri 14 Feb 10-12 in TR1 M12 Fri 14 Feb 10-12 in TR2	Fri 21 Feb

MIMS Practicals – Easter Term 2020

IMPORTANT NOTE: For each student the **practical and corresponding discussion** are separated by 2 weeks and occur on the same week day. For the **computer-based exercise** the pattern is varied, and some students will have that on a different day from their other sessions. Please be alert to this.

Set composition of groups	Practical 3 Venue = Lab 10-12 & 2-4	Discussion 3 Venue = Lab 10-12
Group A = Set M1 + Set M2	Mon 4 May	Mon 18 May
Group B = Set M3 + Set M4	Tue 5 May	Tue 19 May
Group C = Set V1 + Set V2	Wed 22 Apr	Wed 6 May
Group D = Set M5 + Set M6	Thu 23 Apr	Thu 7 May
Group E = Set M7 + Set M8 + Set M9 + Set M10	Fri 24 Apr	Fri 8 May
Group F = Set M13 + Set M14	Mon 27 Apr	Mon 11 May
Group G = Set M15 + Set M16	Tue 28 Apr	Tue 12 May
Group H = Set V3 + Set V4	Wed 29 Apr	Wed 13 May
Group I = Set M17 + Set M18	Thu 30 Apr	Thu 14 May
Group J = Set M11 + Set M12	Fri 1 May	Fri 15 May

Computer-based exercise. Venue = Bioinformatics Craik Marshall Building 10-12 (first group of day) and 2-4 (second group of day)
DBG 1 Mon 4 May 10-12
DBG 2 Mon 4 May 2-4
DBG 3 Tue 5 May 10-12
DBG 4 Tue 5 May 2-4
DBG 5 Wed 6 May 10-12
DBG 6 Wed 6 May 2-4
DBG 7 Thu 7 May 10-12
DBG 8 Thu 7 May 2-4
DBG 9 Fri 8 May 10-12
DBG 10 Fri 8 May 2-4

Summary Timetable of Practicals MIMS 2019-20

WEEK	ACTIVITY	VEN	STAFF
MICHAELMAS TERM			
Mon 21 Oct - Fri 25 Oct	PBL1 Launch week 1 (Wed 23 Oct, Vets)	TR1 & TR2	Dr G Yeo and colleagues
Mon 28 Oct - Fri 1 Nov	PBL1 Launch week 2 (Wed 30 Oct, Vets)	TR1 & TR2	Dr G Yeo and colleagues
	Practical 1 lab week 1	LAB	Dr AP Jackson
Mon 4 Nov - Fri 8 Nov	PBL1 Report week 1 (Wed 6 Nov, Vets)	TR1 & TR2	Dr G Yeo and colleagues
	Practical 1 lab week 2	LAB	Prof. L Pellegrini
Mon 11 Nov - Fri 15 Nov	PBL1 Report week 2 (Wed 13 Nov, Vets)	TR1 & TR2	Dr G Yeo and colleagues
	Practical 1 discuss week 1	LAB	Dr AP Jackson
Mon 18 Nov - Fri 22 Nov	Practical 1 discuss week 2	LAB	Prof. L Pellegrini
LENT TERM			
Mon 27 Jan - Fri 31 Jan	PBL2 Launch week 1 (M, Tu, Th, F) (Wed 29 Jan, Vets)	TR1 TR2	Dr AP Jackson TBC
		TR1 TR2	Dr D Sargan TBC TBC
Mon 3 Feb - Fri 7 Feb	PBL2 Launch week 2 (M, Tu, Th, F) (Wed 5 Feb, Vets)	TR1 TR2	TBC
		TR1 TR2	Dr D Sargan TBC TBC
	Practical 2 lab week 1	LAB	Dr H Mott
Mon 10 Feb - Fri 14 Feb	PBL2 Report week 1 (M, Tu, Th, F) (Wed 12 Feb, Vets)	TR1 TR2	Dr AP Jackson TBC
		TR1 TR2	Dr D Sargan TBC TBC
	Practical 2 lab week 2	LAB	Dr J Rees

Mon 17 Feb - Fri 21 Feb	PBL2 Report week 2 (M, Tu, Th, F)	TR1 TR2	TBC
	(Wed 19 Feb, Vets)	TR1 TR2	Dr D Sargan TBC
	Practical 2 discuss week 1	LAB	Dr H Mott
Mon 24 Feb - Fri 28 Feb	Practical 2 discuss week 2	LAB	Dr J Rees
EASTER TERM			
Wed 22 - Fri 24 Apr Mon 27, Tue 28 Apr	Practical 3 lab week 1	LAB	Prof. K Lilley
Wed 29 Apr - Fri 1 May Mon 4, Tue 5 May	Practical 3 lab week 2	LAB	Dr J Mata
Wed 6 - Fri 8 May Mon 11, Tue 12 May	Practical 3 discuss week 1	LAB	Prof. K Lilley
Wed 13 - Fri 15 May Mon 18, Tue 19 May	Practical 3 discuss week 2	LAB	Dr J Mata
Mon 4 - Fri 8 May	Bioinformatics	CM	Dr RW Broadhurst

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