PHAR3101 Drug Discovery, Design and Development – Timetable 2015

Wk	Start. Mon	Lecture 1 Tue 1-2 Mathews C	Practical Wed 2-5 WW Labs	Lecture 2 Thu 10-11 Mathews C	Tutorial-2 time slots Mat 307; Thu 11-12; 12-1
1	27/7	Introduction & course overview/ Drug discovery as a process R. Griffith		Target identification and validation R. Griffith	
2	3/8	Targets – membrane proteins A. Finch	Target Validation P. Gunning (116)	Targets – DNA L. Wakelin	Target identification and validation R. Griffith
3	10/8	Targets – RNA L. Wakelin	Drug Validation P. Gunning (116)	Targets – enzymes R. Griffith	Membrane proteins as targets A. Finch
4	17/8	Biological assays: lead identification A. Finch	Lead identification and screening: radioligand binding A. Finch (116)	Biological assays: high-throughput screening A. Finch	Nucleic acids & enzymes as targets R. Griffith
5	24/8	Sources of active compounds R. Griffith	Assessment in DDDD R.Griffith (116)	Biologics R. Griffith	**Test (weeks 1-4)** **R.Griffith**
6	31/8*	Molecular modelling R. Griffith	Lead modification: SAR A. Finch (116)	Ligand-based drug design R. Griffith	Lead identification & screening/Feedback from test A. Finch/R. Griffith
7	7/9	Structure determination R. Griffith	Lead modification: data analysis A. Finch (115)	Structure-based drug design R. Griffith	SAR/Feedback from test A.Finch
8	14/9	Bioavailability R. Griffith	Molecular Modelling R. Griffith (115)	Pro-drugs and drug delivery T. Binder	Ligand-based drug design R. Griffith
9	21/9*	Pre-clinical toxicology – *in vitro* G. Smith	Visualisation: Drug - Target R. Griffith (115)	Pre-clinical toxicology – *in vivo* G. Smith	Structure-based drug design R. Griffith
	28/9	**Mid-semester break**	**Mid-semester break**	**Mid-semester break**	**Mid-semester break**
10	5/10	Clinical trials G. Smith	Preclinical toxicology: Ames test 1 G.Smith (120)	Clinical trial design G. Smith	Pre-clinical studies R. Griffith
11	12/10	Ethics of human and animal experimentation G. Smith	Preclinical toxicology: Ames test 2 G.Smith (120)	Intellectual property L. Wakelin	Pre-clinical toxicology G. Smith
12	19/10*	Commercial considerations O. Chisholm	Clinical Bone Research G. Smith	The industry experience in Australia Guest lecturer	Clinical trial design G. Smith
13	26/10				Drug discovery as a process/exam preparation R. Griffith

***Lab report due 10 am, Monday, week 9. Group assignment due 10 am, Monday, week 12.**