

## PHAR3101 Drug Discovery, Design and Development – Timetable 2016

Wk	Start. Mon	Lecture 1 Tue 12-1; WWLG02	Lecture 2 Wed 1-2; WWLG02	Practical Wed 3-6; WW115 or 116	Tutorial-2 time slots; Thu 11-12; 12-1; AGSMLG06
1	25/7	Introduction & course overview/ Drug discovery as a process R. Griffith	Target identification and validation R. Griffith		
2	1/8	Targets – membrane proteins A. Finch	Targets – DNA L. Wakelin	Target validation P. Gunning (116)	Target ident. & val./ Prep for test R. Griffith
3	8/8	Targets – RNA L. Wakelin	Targets – enzymes R. Griffith	Drug validation P. Gunning (116)	Membrane proteins as targets A. Finch
4	15/8	Biological assays: lead identification A. Finch	Biological assays: high-throughput screening A. Finch	Lead identification and screening: radioligand binding A. Finch (115)	Nucleic acids & enzymes as targets R. Griffith
5	22/8	Sources of active compounds R. Griffith	Biologics R. Griffith	Lead modification: SAR A. Finch (116)	<b>Test (weeks 1-4) R.Griffith</b>
6	29/8		Molecular modelling R. Griffith	Assessment in DDDD/ Ligand-based drug design lecture R. Griffith (116)	Lead identification & screening/ Feedback from test A. Finch/R. Griffith
7	5/9	Structure determination R. Griffith	Structure-based drug design R. Griffith	Lead modification: data analysis A. Finch (115)	SAR/ Feedback from test A.Finch
8	12/9	Bioavailability R. Griffith	Pro-drugs and drug delivery T. Binder	Molecular modelling R. Griffith (115)	Ligand-based drug design R. Griffith
9	19/9*	Pre-clinical toxicology – <i>in vitro</i> A. Finch	Pre-clinical toxicology – <i>in vivo</i> A. Finch	Visualisation: drug - target R. Griffith (115)	Structure-based drug design R. Griffith
	26/9	<b>Mid-semester break</b>	<b>Mid-semester break</b>	<b>Mid-semester break</b>	<b>Mid-semester break</b>
10	3/10	Clinical trials A. Finch	Clinical trial design A. Finch	Preclinical toxicology: Ames test 1 A. Finch (116)	Pre-clinical studies R. Griffith
11	10/10	Ethics of human and animal experimentation N. Jones	Intellectual property L. Wakelin	Preclinical toxicology: Ames test 2 A. Finch (116)	Pre-clinical toxicology A. Finch
12	17/10*	Commercial considerations O. Chisholm	The industry experience in Australia Guest lecturer		Clinical trial design A. Finch
13	24/10			Clinical bone research G. Smith	Drug discovery as a process/ Exam preparation R. Griffith

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