Part II Pharma

MODA on drugs?

A M Pillay

Content + Differences with 1B

- Emphasis is on breadth
- E.g. Navs, GABA-A, Lipids, IBS, Pain, CF, PI3Ks (appendix slide has all the lecture blocks listed for those who are interested)
- A lot more detail required (but likely to be open book)
- Questions are very integrative – e.g. why do we have so much of this enzyme in the body, what are the current challenges with cancer vaccines

Workload

- Lectures
  - 2 a day in Michaelmas + 1 tech talk a week
  - 1 a day in Lent (no tech talks) – but you will be doing your project or dissertation in Lent too
- Discussion Group
  - Read a paper a week, usually need to present a paper to the group once a term
  - Builds critical appraisal skills
- Coursework
  - Drug review (10%) (if you do a project)– All of Michaelmas + Christmas, due first Friday of Lent
    - Profile a drug which got FDA approval in that year
    - Good preparation for the project
    - Can honestly be done in 3 days, takes longer to pick the right drug
  - Project/Diss (see next slide)

Projects

- Only in Lent term (8 weeks of lab time)
- Variable hours – I did 2 full days and 2 half days a week, I know others who worked 9-6 every weekday and others who went in for 2 hours total a week
- Balances nicely with the halving of lecture hours
- Most of the time you're working with PhD students, who are immensely helpful with data analysis and presentation

Pharma Project or BBS?

- Course structure puts project students at an advantage
- Consider how writing up something is a sunk cost with part II (let's say project and diss write ups are equivalent in terms of time investment)
- BBS – 16% from minor subject exams, 20% from diss, 64% from pharma exams
- Project – 10% drug review, 20% project, 70% exams
- More marks locked up in the bank pre exams, you get the drug review as a warm up for the project + easy to score on
- However, if you know you don't like lab work, that's an understandable deal breaker

Questions?

- amp214@cam.ac.uk

Appendix Material

- Lecture Topics
- Example part II essay (see drive)

Michaelmas Lectures

Lecture Series	Lecture Count	Lecturer
GPCRs	2	Varies
Drug Discovery	3	David Hall
Gut Hormones	4	Fiona Gribble
Cystic Fibrosis	4	Changes from next year
Synaptic Pharmacology	5	Changes from next year
Multi Drug Transporters	5	Van Veen
PI3Ks	3	Phillip Hawkins
Cell Cycle	4	Catherine Lindon
Protein Misfolding	4	Laura Itzhaki
Cancer Therapies	6	Khaled Whalid and Catherine Wilson
Circadian Rhythms	4	O'Neill
Cys Loop Receptors	3	Sarah Lummis
Systems Pharmacology	2	David Shorthouse
Kv	2	David Prole
Nav + Cav	4	Taufiq Rahman
GABA-As	4	Paul Miller
MS	2	Coles

Lent Lectures

Lecture Series	Lecture Count	Lecturer
Lipids + Metabolic Syndrome	4	Robert Henderson
GI Pharmacology + IBS	4	David Bulmer
Cardiac Ion Channels	3	Llewyn
Pain	4	Ewan St John Smith
cAMP signalling	4	Cooper
Ca and PLC	6	Colin Taylor
Hypertension	4	Ian Wilkinson
Stem cells	2	Khaled Whalid
Cardiac Regeneration	1	Catherine Wilson
Parkinsons	2	Barker and Greenland