

IGM Open Day 15.07.15

Programme:

08:45-09:00 Arrival and registration

09:00-10:00 Short seminars (Institute of Genetic Medicine (IGM) seminar room)

09:00:09:05 Welcome

09:05-09:25 Mitochondria, the power house of the cell (Dr Gavin Hudson, IGM)

09:30-09:50 Mitochondrial conditions (Dr Michael Keogh, IGM/NHS)

10:00-12:30 From bedside to the lab - Hands on diagnostic workshops (IGM researchers)

- 1 meet the patient (*informal chat about everyday life with the condition, the impact of research on everyday life*)
- 2 DNA lab (*run a diagnostic agarose gel and identify the affected individuals in the family*)
- 3 genetic counselling lab (*draw a pedigree and identify the pattern of inheritance in the affected family*)
- 4 histopathology lab (*analyse tissues from affected and unaffected individuals, note specific disease features*)
- 5 animal models of human disease (*use of animal models in research; how they compare to human samples*)

12:30-13:15 Lunch (IGM seminar room)

13:15-14:30 Research at the IGM

13:15-13:30 Therapeutic avenues (Dr Louise Hyslop, NHS)

13:30-14:00 5 min PhD thesis (overview of IGM research)

14:00-14:30 Careers workshop (Dr Catherine Meplan, Faculty of Medical Sciences, Newcastle University)

14:30-14:40 Break

14:40-16:15 From lab to bedside – drug approval and clinical trials

14:40-15:10 The future of medicine, single cell and NGS (Dr Jonathan Coxhead, IGM)

15:10-15:40 From lab to pharmacy, how drugs get tested and approved (Robbie Brown, Newcastle Clinical Trials Unit)

15:40-16:15 Debate about clinical trials (Cathy Turner, IGM)

16:15-16:30 Closing remarks (Prof Michael Briggs, IGM)



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