

# DOORS OPEN DAYS 2018

**igmm**  
INSTITUTE OF GENETICS  
& MOLECULAR MEDICINE





THE UNIVERSITY  
of EDINBURGH



## Talks & Video Programme

Time	Lecture Theatre	Talk Title and description
10:00-10:30	<b>VIDEOS</b> 	
10:30-10:45	<b>TALK: Professor David Fitzpatrick</b> , Professor of Medical and Developmental Genetics, MRC HGU	<b>Severe intellectual disability in children</b> Genetic technologies allow us to identify the causes of more than half of the cases of children with severe intellectual disability, by comparing the DNA of the child with their parents.
10:45-11:00	<b>TALK: Dr Cameron Wyatt</b> , IGMM Zebrafish Facility Manager	<b>Zebrafish!</b> Why are zebrafish so cool? Why can they do things that humans can't? Why are zebrafish the fastest growing research model animal in the UK? What can they tell us about heart disease, paralysis and other human conditions? Can you read the mind of a zebrafish? Are all the researchers who work with zebrafish really cool?
11:00-11:15	<b>TALK: Dr Andrew Wood</b> , Principal Investigator, MRC HGU	<b>How Genome Editing with CRISPR-Cas9 is transforming biomedical research</b> New technologies for changing the sequence of DNA inside living cells and organisms have greatly accelerated progress in biomedical research. Find out how the Genome Editing tool CRISPR is being used in the IGMM and elsewhere to understand the genetic basis of human disease.
11:15-12:00	<b>VIDEOS</b> 	
12:00-12:15	<b>TALK: Dr Shona Kerr</b> , Research Project Manager, MRC HGU	<b>People Power - Scottish Population Biobanks</b> Discover some of the important contributions made by members of the public who consented to participate in Scottish population studies. Their clinical and blood measurements, along with the use of ever more detailed genetic information, provides valuable data for research. This has helped create new insights and understanding of a wide range of diseases and conditions.
12:15-12:45	<b>VIDEOS</b> 	
12:45-13:00	<b>TALK: Professor Wendy Bickmore</b> , Director MRC Human Genetics Unit	<b>The MRC Human Genetics Unit - An Overview</b> The MRC HGU -the creation of this centre: its research focus, successes and predictions for the future
13:00-13:30	<b>VIDEOS</b> 	
13:30-13:45	<b>TALK: Professor Ian Jackson</b> , Principal Investigator, MRC HGU	<b>How do genes control our hair colour?</b> The inheritance of hair colour is complicated. There are many genes that affect whether we have blonde, dark or red hair. Thanks to a huge survey of the UK population, we can begin to find these genes and find out how they work together to colour our hair.

13:45-14:00	<b>TALK: Chiara Asselborn</b> , PhD Student, CRUC Edinburgh Centre	<b>Organoids in biomedical research</b> Organoid culture is a new lab-based technique used to grow cells in three-dimensional structures, which is meant to more closely recapitulate basic organ biology. This talk will cover the basics of organoid culture, their current applications and how we have used them at the IGMM to model colorectal cancer.
14:00-14:15	<b>TALK: Professor Nick Hastie</b> , IGMM Director of Academic Development	<b>The MRC Institute of Genetics &amp; Molecular Medicine - An Overview</b> The MRC IGMM – the creation of this institute: its research focus, successes and predictions for the future
14:15-15:15	<b>VIDEOS</b> 	
15:15-15:30	<b>TALK: Liz Patton</b> , Programme Leader, MRC Human Genetics Unit	<b>Fishing for new melanoma therapies</b> Melanoma is the most deadly form of skin cancer, and despite important progress in therapy, most people with metastatic melanoma succumb to the disease. I will discuss how our work using zebrafish is leading us toward new understanding of the genetic factors that contribute to melanoma progression, and how we are identifying new drug leads to target melanoma.
15:30-17:00	<b>VIDEOS</b> 	

<b>Building Tours Programme</b> 			
<b>Time</b>	<b>Guide</b>	<b>Please sign up at the Reception Desk</b>	
10:00 - 10:30	<b>TBC</b>	Tour 1: Capacity 6	
10:30 - 11:00	<b>Dee</b>	Tour 2: Capacity 6	
11:00 - 11:30	<b>Helen</b>	Tour 3 Capacity 6	
11:30 - 12:00	<b>Dee</b>	Tour 4 Capacity 6	
12:00 - 12:30	<b>Helen</b>	Tour 5: Capacity 6	
12:30 - 13:00	<b>Sarah P</b>	Tour 6: Capacity 6	
13:00 - 13:30	<b>Shona</b>	Tour 7: Capacity 6	
13:30 - 14:00	<b>Helen</b>	Tour 8: Capacity 6	
14:00 - 14:30	<b>Sarah P</b>	Tour 9: Capacity 6	
14:30 - 15:00	<b>Shona</b>	Tour 10: Capacity 6	
15:00 - 15:30	<b>Dee</b>	Tour 11: Capacity 6	
15:30 - 16:00	<b>Dee</b>	Tour 12: Capacity 6	
16:00 - 16:30	<b>Helen</b>	Tour 13: Capacity 6	
16:30 - 17:00	<b>Helen</b>	Tour 14: Capacity 6	