

# 2021 PERSONALISED MEDICINE SYMPOSIUM

## KEYNOTE SPEAKERS

### DR SOWMIYA MOORTHIE

Senior Policy Analyst,  
Foundation For Genomics  
And Population Health

### PROFESSOR SHARON PEACOCK CBE

Executive Director and  
Chair of the COVID-19  
Genomics UK (COG-UK)  
consortium

### DR JOHN MCDERMOTT

Manchester Centre for  
Genomic Medicine

HT8 | 11TH MARCH 2021



Oxford  
Personalised  
Medicine Society

Centre for  
Personalised  
Medicine







# WELCOME

*Jiyoon Lee*  
*President of the Oxford Personalised Medicine Society 2020/2021*

Welcome to the 2nd annual Oxford Personalised Medicine Symposium, organised by the Oxford Personalised Medicine Society (OUPM)!

The Oxford Personalised Medicine Symposium is the yearly epitome of our OUPM events. With the ongoing Covid-19 pandemic, we decided to make this year's symposium virtual but in continuation of the successful symposium last year, we have a fantastic line-up of prominent keynote speakers, our very own university student speakers as well as a new addition of an interactive debate session led by the Oxford Centre for Personalised Medicine (CPM). As a highlight lecture of our popular Oxford SARS-CoV-2 Lecture Series, we have included a COVID-19 talk in our symposium programme this year. In addition, we will be holding a prize giving ceremony with a number of big prizes for the best student presenter as well as the best debater. There will also be an opportunity to network after the prize sessions, so please enjoy with us till the end of the symposium!

The OUPM is a student and faculty-led organisation founded in 2019 and kindly sponsored by the CPM, a partnership programme between the Wellcome Centre for Human Genetics and St Anne's College at the University of Oxford. Our goals are to increase engagement and awareness of the research and opportunities available for students in Personalised Medicine within the University and foster discussions about the benefits and detriments of the field on healthcare in modern-day medicine. This year, the OUPM committee has been working tirelessly to bring you a diverse range of activities. A huge shout out to the rest of the OUPM committee members - Roshan Karthikappallil (Vice President), Holly Eggington (Secretary), Kaiyang Song (Treasurer), Carla Fuenteslopez (IT Officer), Esther Ng (Chief Technology Officer) and our new member Nayanika Sreejith (Publicity Officer). We are also proud of our OUPM Journal sub-committee editors who have been working hard to produce our very own first OUPM Journal, which will be published soon. This is one of the many new initiatives we have organised, and we are in the process of producing the CPM podcast including eminent speakers, Dr. Magdalena Skipper, Editor-in-Chief of Nature as our first guest. Other new initiatives include but are not limited to: our first Coding Skill Workshop Series to provide our OUPM members computational experience on various programming languages to apply these essential skills to their research projects in the future, Careers Workshop Series kindly led by the CPM Junior Research Fellows, support of stellar CPM events including the recent lectures by Dr. Adam Rutherford and Professor Jennifer Doudna, expansion of our social media platforms on Instagram, Twitter, LinkedIn and OUPM Website establishment, the upcoming OUPM Panel Discussion: The Future of Personalised Medicine, our new Outreach event in conjunction with the STEP inTO OxMed and more. In addition, we are also excited about the interdisciplinary nature of Personalised Medicine. Hence, we hosted research and clinical talks throughout the year encompassing a diverse array of subject areas, ranging from the ethics of Personalised Medicine to the current COVID-19 pandemic, our well-received Oxford SARS-CoV-2 Lecture Series where we previously invited Professor Dan Barouch, Professor Adrian Hill, Professor Brian Angus and more.



*Roshan Karthikappallil*  
*Vice President*



*Holly Eggington*  
*Secretary*



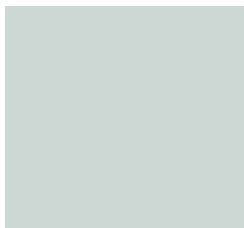
*Kaiyang Song*  
*Treasurer*



*Carla V. Fuenteslopez*  
*IT Officer*



*Nayanika Sreejith*  
*Publicity Rep*



*Esther Ng*  
*Chief Technology Officer*

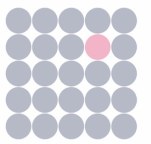
## OUR COMMITTEE

We continue to strive to deliver a wide range of OUPM activities and promote interest in Personalised Medicine for all at the University of Oxford for the remainder of the academic year. If you have yet to join us as a member of the OUPM, please register to receive weekly newsletters covering exciting Personalised Medicine-related opportunities and events we have planned such as the aforementioned events, more OUPM Talks delivered by notable figures in Personalised Medicine including Professor Julia Hippisley-Cox, collaborative social and outreach events with other University societies etc.

I look forward to welcoming you to what is sure to be a memorable and intriguing Oxford Personalised Medicine Symposium 2021!



**Oxford  
Personalised  
Medicine Society**



9:30

INTRODUCTION FROM  
THE CPM AND OUPM

10:00

STUDENT SPEAKERS

11:00

KEYNOTE SPEAKER:  
DR JOHN MCDERMOTT

12:00

LUNCH BREAK

12:45

STUDENT SPEAKERS  
CONT./DEBATE

14:00

KEYNOTE SPEAKER:  
PROF. SHARON PEACOCK

15:00

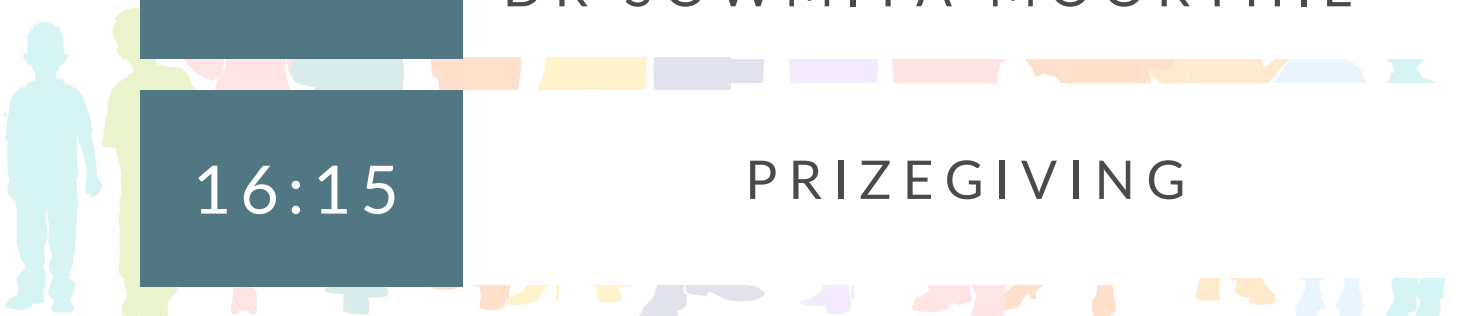
COFFEE BREAK

15:15

KEYNOTE SPEAKER:  
DR SOWMIYA MOORTHIE

16:15

PRIZEGIVING



# KEYNOTE SPEAKERS



Dr McDermott is an NIHR Academic Clinical Fellow in Genomic Medicine/Core Medical Trainee. He is based at Saint Mary's Hospital, part of Manchester University NHS Foundation Trust. In 2018 he was named as one of four trainee winners of the joint National Institute for Health Research Clinical Research Network (NIHR CRN) and Royal College of Physicians (RCP) award. Dr McDermott's research interest involves the application of genetic information in the acute setting to improve patient safety and patient outcomes.

Professor Sharon Peacock FMedSci CBE is the Executive Director and Chair of the COVID-19 Genomics UK (COG-UK) consortium.

The COG-UK consortium has been created to deliver large-scale and rapid whole-genome virus sequencing to local NHS centres and the UK government. Professor Peacock is also a non-executive director at Cambridge University Hospitals NHS Foundation Trust, and holds a secondment with Public Health England (PHE) as Director of Science (Pathogen Genomics).



Dr Sowmiya Moorthie is a Senior Policy Analyst at PHG Foundation, responsible for the development and delivery projects with an epidemiological and scientific focus. Her interest is in effective use of scientific knowledge to improve the health of individuals and populations.

Sowmiya has worked on personalised prevention, whole genome sequencing, congenital disorders, newborn screening and prenatal diagnosis. More recently, she has been leading PHG Foundation's work to examine the capacity development for personalised breast cancer prevention, as well as their work on polygenic scores.



# MEET THE STUDENT SPEAKERS

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Personalised Medicine within the University. We're incredibly proud of the work our society members carry out, and one of the main goals in establishing the annual Personalised Medicine Symposium was to establish a platform to highlight and reward this work. At the symposium, you will gain the opportunity to hear about the work students associated with the university are carrying out, from the Undergraduate FHS level to the DPhil students pioneering research taking years of passion.

Personalised medicine is a fast growing field, and Oxford, home to the Centre for Personalised Medicine, is a global epicentre of this growth. Home to one of the world's only student societies dedicated to exploring the potential of Personalised Medicine, as well as the rapidly growing Centre for Personalised Medicine, based at St Anne's College, Oxford students are uniquely situated to contribute to this.

Our goal is to increase engagement and awareness of the research and opportunities available for students in



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## ZACHARIAH RAOUF

Zachariah is a fifth-year medical student studying at Keble College. His clinical interests include surgery and academic medicine.

As part of his 2018/19 Final Honours School research project he was attached to the Tomlinson Group. During his time at the Oxford Centre for Diabetes, Endocrinology and Metabolism, he worked on in vitro evidence for novel NAFLD diagnostic methods.



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## JENNIFER KNIGHT

Jennifer is a 4th year medical student at Exeter College. She is Filipino-British but grew up in Ghana before moving to the UK.

Her BA in Medical Sciences from the University of Oxford saw her working as part of the Buchan Group Laboratory of Cerebral Ischemia, where she focussed on characterising novel in-vitro microfluidic models of stroke.

She is currently working towards completing her MBBS and hopes to pursue both clinical and academic medicine in the future.



## **SEREN MARSH**

Seren is a fourth year medical student studying at the University of Oxford and is interested in a career as a clinical academic.

Although she is not yet set on a particular medical speciality or field of research, she is keen for aspects of personalised medicine to be incorporated into both.



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## **ALEXANDER HAYES**

Alex is a 5th year medical student and has been interested in personalised medicine since his FHS year in 2018-19.

He has carried out research mainly in virology and is currently looking to apply for an Academic Foundation Programme to continue his interest into his clinical career.



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## **EMMANUEL BUGARIN ESTRADA**

Emmanuel studied Medicine in Mexico and completed his MSc in Integrated Immunology at Oxford last year. He is currently working in Mexico as an assistant professor in Medicine and is looking forward to continuing his clinical career in Oncology.

He is interested in cancer immunology and immunotherapy, and he aims to make these therapies more accessible to patients living in low and middle income countries.

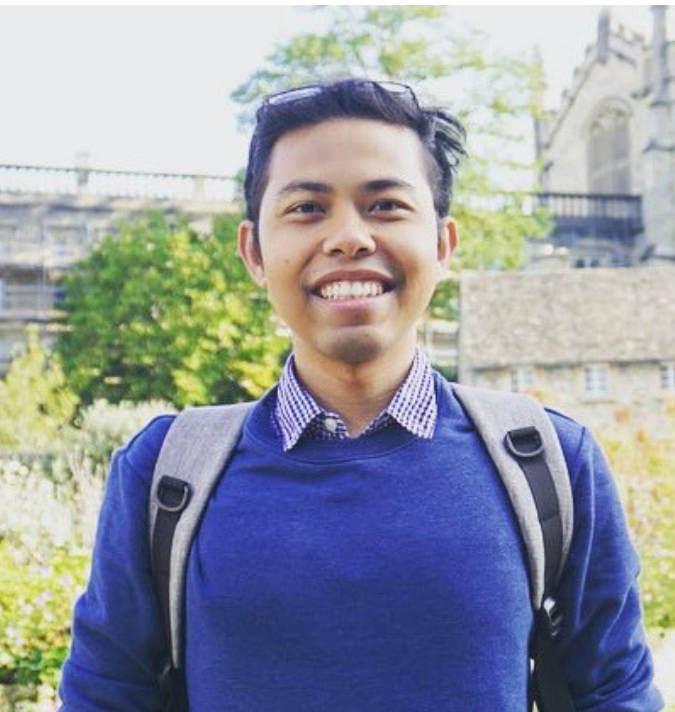




## **KATHARINA BECK**

Katharina is a fourth year medical student at Green Templeton College. Last year she completed an FHS project in the Translational Gastroenterology Unit looking at changes to adipose tissue gene expression in obesity. Alongside her clinical studies, she is currently assisting with research projects focusing on maternal HIV infection and oncolytic virotherapy.

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## **UJANG PURNAMA**

Ujang Purnama is a third-year DPhil student in the Department of Physiology, Anatomy, and Genetics under Prof. Carolyn Carr's Supervision. His DPhil project focuses on creating an innovative 3D heart model using human induced pluripotent stem cell-derived cardiomyocytes, to better understand the effects of diseases such as diabetes on the heart. He's interested in personalized medicine, drug discovery, and bio entrepreneurship

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## **CATRIONA ROONEY**

Catriona's interest in Medical Physics began during her time at the University of St Andrews. After graduating with a BSc (Hons) Physics she was awarded an EPSRC and MRC funded DPhil position as part of the Oxford Nottingham Biomedical Imaging Doctoral Training Centre. To conduct her research, she later joined the Tyler lab in the Department of Physiology, Anatomy and Genetics. Whilst a keen physicist, Catriona's main motivation for her research lies in the clinical application of her work. The theragnostic potential of silicon nanoparticles to simultaneously image, monitor, and treat a wide variety of medical conditions is widely acknowledged. Catriona's current research focusses on optimising silicon nanoparticles as a hyperpolarized contrast agent using Dynamic Nuclear Polarization.