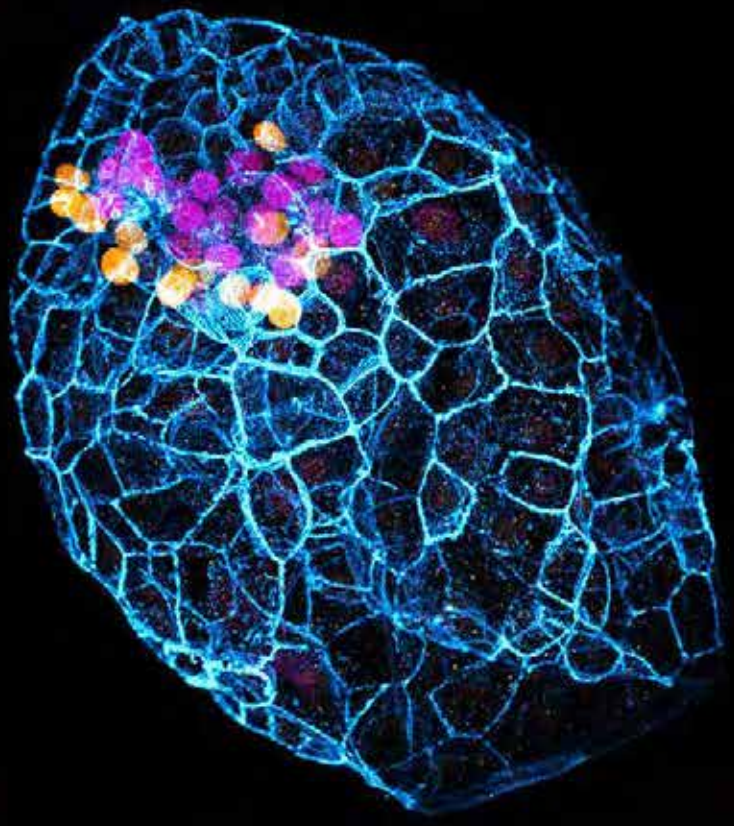


Conference Programme

Centre for Trophoblast Research

Annual Meeting

July 3rd-4th 2023
Newnham College
Cambridge, UK

CTR
Centre for Trophoblast Research

UNIVERSITY OF CAMBRIDGE

PROGRAMME

All presentations will take place in the Cynthia Beerbower Room, Dorothy Garrod Building, Newnham College Cambridge.

During the breaks, refreshments will be served in the Clough Dining Hall, where conference posters will be on display.

Guest Wi-Fi access: NewnhamGuest, Password: IrisCafe1871. Eduroam and UniOfCam networks are also available for University attendees.

To participate in interactive Q&A, please join the CTR Annual Meeting Slido with the code #AnnualMeeting23 on Slido.com or here: https://app.sli.do/event/rQ6zvrP3xgCVdksTLrBnRk

DAY 1: MONDAY, 3 JULY 2023

13:00 Registration and coffee upon arrival

13:30 Session 1: Stemness and trophoblast identity

Chair: Thorsten Boroviak

Time	Speaker
13:30	Welcome and housekeeping
13:45	**Paulina Latos** *Repressive mechanisms governing trophoblast identity*
14:15	**Vicente Perez Garcia** *A double-edged sword: BAP1's roles in regulating placentation and cancer*
14:45	**Kathy Niakan** *Molecular mechanisms regulating trophectoderm initiation in human development*
15:09	**Hubert Schorle** *TFAP2C and me – 20x years of research in Trophoblast stem cell biology*
15:39	**Flash talks:** **Anna Arutyunyan (Poster #1)** *Spatial multiomics map of trophoblast development in early pregnancy* **Henrieta Papuchova (Poster #2)** *The role of the SWI/SNF chromatin remodeling complex in trophoblast identity* **Pradeepa Madapura (Poster #3)** *H4K16 hyperacetylation mediated upregulation of transposable elements and elevated inflammatory response in preeclampsia* **Qian Li (Poster #4)** *Reciprocal interactions between uterine NK cells and extravillous trophoblast promote successful placentation in humans* **Jennifer Frost (Poster #5)** *Regulation of trophoblast gene expression by transposable elements* **Katrien De Clercq (Poster #6)**

	Trpv2 Is Involved In Placental Development In Mice And Men **Mario Filice (Poster #7)** *An Enhancer Responsible for Regulating Multiple Placentation-Associated Genes*

16:00-16:30 Afternoon tea & coffee

16:30 Session 2: Maternal-placental-fetal dialogues

Chair: Andrew Sharkey

Time	Speaker
16:30	**Irving Aye** *Metabolic determinants of placental development*
17:00	**Priscilla Day-Walsh** *Understanding the mechanism of maternal gut microbiota derived trimethylamine (TMA) and trimethylamine -N-Oxide (TMAO) effects on placental function*
17:15	**Nick Burton** *Maternal insulin signaling to oocytes promotes changes in offspring metabolism via a mitochondrial ETC dependent mechanism*
17:45	**Amanda Sferruzzi-Perri** *Balancing needs: Placental mechanisms regulating materno-fetal resource allocation and its implications for life-long health*
18:15	**Theresa Powell** *Adiponectin constitutes an adipose to placenta signal that directs pregnancy outcomes and life-long health*

18:45 Drinks reception

19:30 3-course conference dinner

Held in celebration of the CTR Next Generation Fellows, Newnham College Hall

DAY 2: TUESDAY, 4 JULY 2023

08:30 Morning tea & coffee

09:00 Session 3: Maternal-placental-fetal impacts across the life course

Chair: Roser Vento-Tormo

Time	Speaker
09:00	**Hilary Critchley** *Menstruation: a necessary prelude to implantation?*
09:30	**Annettee Nakimuli** *Longitudinal Studies of Fetal Growth and Pre-Eclampsia in Sub-Saharan Africa*
10:00	**Erica Watson** *Placenta methylome, transcriptome and function is multigenerationally disrupted by defective folate metabolism*
10:30	**Flash talks:**

	Jasmine Mack (Poster #8) *Genetic analysis of preeclampsia-associated variants near FLT1 with soluble fms-like tyrosine kinase-1 (sFLT1) levels over gestation in the POPs cohort* **Muhammad Pradhiki Mahindra (Poster #9)** *Placental Nutrient Transporter Expression in Pregnancies Complicated by Gestational Diabetes* **Nirav Barapatre (Poster #10)** *Whole Placentome Imaging by Micro-CT* **Abigail Byford (Poster #11)** *Mild hyperglycaemia associated with large-for-gestational age infants in gestational diabetes alters placental genes associated with the immune response and increases levels of Hofbauer cell markers* **Malcolm Sim (Poster #12)** *Activating KIR are not weak but peptide specific*

10:45-11:45 Poster session and mid-morning cake

11:45 Session 4: Determinants of placental development

Chair: Ionel Sandovici

Time	Speaker
11:45	**Miguel Branco** *Transposable Element Regulation in Trophoblast*
12:15	**Courtney Hanna** *Epigenetic regulation of placental development*
12:45	**Claire Senner** *Nonsense Mediated Decay in Mammalian Reproduction*
13:00	**Naomi McGovern** *Utilising epigenetics to understand placental macrophage ontogeny*
13:30	**Yoel Sadovsky** *The ins and outs of placenta-specific miRNAs*

14:00 Closing remarks and end of conference

SPEAKER BIOGRAPHIES

Our invited speakers feature our 2022-23 Scientific Advisory Board (SAB) members alongside past and present Next Generation Fellows supported by the CTR.

Scientific Advisory Board speakers

Hilary Critchley

Professor Hilary Critchley has held a Personal Chair in Reproductive Medicine at the University of Edinburgh since 1999. She is Head of Deanery of Clinical Sciences at the University of Edinburgh; Co-Director, MRC Centre for Reproductive Health and Consultant Gynaecologist at the Royal Infirmary, Edinburgh. Her research focuses on improving the understanding of the complex basic science of the uterine endometrium and the clinical management of gynaecological complaints with major impacts on women's quality of life, including heavy menstrual bleeding. She is the current Chair of the FIGO Committee for Menstrual Disorders and Related Health Impacts. Her commitment to addressing problems of menstrual bleeding embraces not only how research can enhance our understanding and care, but also how we "tackle the taboo" around menstruation. Her expertise in this field has national and international recognition. She is a Fellow of the UK Academy of Medical Sciences and Fellow of the Royal Society of Edinburgh, and an International Member of the US National Academy of Medicine. Hilary is committed to seeing research in reproductive health maintain a critical mass, so it achieves a prominent position in the national/ global health funding arena. She is an advocate for mentorship in supporting the careers of Clinical and non-Clinical Academics.

Yoel Sadovsky

Dr Yoel Sadovsky is a physician-scientist and board certified in obstetrics and gynecology (Washington University in St Louis), and maternal-fetal medicine (University of California, San Francisco). His NIH-funded research focuses on feto-placental development and molecular mechanisms underlying placental function and response to injuries, aiming to better understand early human development and pregnancy health. He is a member of the US National Academy of Medicine, the Association of American Physicians and the Royal College of Obstetricians and Gynaecologists (RCOG, ad eundem). He has served as president of the Society for Reproductive Investigation, on the Councils for NIH-NICHD and the March of Dimes, and currently serves on the NIH Advisory Committee on Research on Women's Health. In 2013 he was awarded the Cozzarelli Prize in Biomedical Science from the National Academy of Sciences

Theresa Powell

Dr Powell is Professor of Pediatrics and Obstetrics and Gynecology at Untiversity of Colorado and internationally recognized for her work in determining the molecular mechanisms regulating nutrient transport in the human placenta. She has characterized changes in placental function associated with important pregnancy complications such as growth restriction and maternal metabolic diseases. Dr Powell's primary research focus is to better understand how the abnormal maternal metabolic environment of obesity and/or gestational diabetes affects placental function and the long-term health of her baby. Specifically, Dr Powell is interested in identifying endocrine signals linking maternal adipose tissue and circulating lipids to placental functional changes that impact fetal growth and brain development. She hopes to use this knowledge to develop novel intervention paradigms for improving the maternal metabolic environment, pregnancy outcomes and life-long health of the next generation.

Hubert Schorle

Professor Hubert Schorle is the Head of the Department of Developmental Pathology at the University Clinics Bonn, Germany. He studied Biology at the Bayerische Julius-Maximilians University of Würzburg (Germany) where he did his Dr. rer. Nat (Ph.D) at the Institute of Virology (1992). From 1993 to 1996, he joined the Lab of Prof. Dr. R. Jaenisch at Whitehead Institute / MIT in Cambridge, MA. Thereafter, he moved to K.I.T. in Karlsruhe, Germany and established his own research group. In 2001 he obtained the "venia legendi" (private lecturer) at Karlsruhe Technical University. Thereafter, he joined the Institute of Pathology in Bonn to add translational aspects to his research and establish a transgenic/knockout mouse facility. 2004, he was appointed Professor at University of Duisburg/Essen where he was head of the Department of Developmental Biology. In 2005, he moved back to Bonn and is head of the Department of Developmental Pathology, Molecular Diagnostics and the Core Facility "gene editing".

Annettee Nakimuli

Annettee Nakimuli is the Dean School of Medicine and Associate Professor of Obstetrics and Gynaecology at Makerere University. Annettee trained as a medical doctor and later as an Obstetrician and Gynaecologist at Makerere University. She has a PhD in Medicine and her doctoral training was undertaken at Makerere and Cambridge Universities. Annettee's research group investigates pregnancy complications common in African women such as pre-eclampsia, fetal growth restriction, preterm birth and infections. Her studies aim at developing tools to improve prediction, management and prevention of pregnancy complications. Noteworthy, she conducted the first genetic study of pre-eclampsia in Africa. She is currently a Gates-funded Calestous Juma Science Leadership Fellow, an International Fellow at Wellcome Sanger Institute in the UK and a FLAIR Fellow (Future Leaders-African Independent Research) of the Royal Society. Annettee serves on several national and international committees on maternal health, including the National Safemotherhood Expert Committee where she chairs the pre-eclampsia subcommittee. She is the President of the East Central and Southern Africa College of Obstetrics and Gynaecology which brings together obstetricians/gynaecologists in the 14 member countries.

Next Generation Fellow Speakers

Erica Watson

Dr Erica Watson completed her PhD in Biochemistry and Molecular Biology in the lab of Jay Cross at the University of Calgary (Canada) where she focused on the cellular mechanisms of mouse placenta development. From there, she was awarded a Next Generation Fellowship at the CTR in Cambridge to undergo an independent research programme focused on the multigenerational effects of folate metabolism on fetal and placental development. Erica continued this work as an assistant professor (lecturer) and then associate professor in the Department of Physiology, Development and Neuroscience at the University of Cambridge, where she now resides. Currently, her lab explores the mechanisms of germline epigenetic inheritance of developmental phenotype caused by abnormal folate metabolism.

> *"The NGF was the start of an adventure as an independent researcher and validation of my scientific ideas when not much was known in the field of transgenerational epigenetic inheritance. I was brought into a community of researchers that regularly thought about the placenta, which was exciting. Without the unique opportunity of the NGF and the mentorship that I received, I would not have been able to develop my research programme as it is today.*

Kathy Niakan

Professor Kathy Niakan is Mary Marshall and Arthur Walton Professor of the Physiology of Reproduction, Director of the Centre for Trophoblast Research and Chair of Cambridge Reproduction. From 2021, she has been an Honorary Group Leader at the Babraham Institute and Affiliate Member of the Cambridge Stem Cell Institute. She is a Group Leader at the Francis Crick Institute, formerly the National Institute for Medical Research, since 2013. Prior to this she was a Centre for Trophoblast Research Next Generation Research Fellow. She obtained a B.Sc. in Cell and Molecular Biology and a B.A. in English Literature from University of Washington. She obtained her PhD at University of California, Los Angeles. She undertook postdoctoral training at Harvard University. Her laboratory pioneered approaches to investigate the function of genes that regulate early human development and the molecular mechanisms that direct cell fate in human embryos. The laboratory obtained the first nationally regulated approval to genetically modify human embryos in research which attracted widespread policy interest and was acquired as part of the permanent collection at the Science Museum in London. Through a long-standing collaboration with University of Newcastle, the laboratory provided pre-clinical data that led to the development of novel techniques for using mitochondrial replacement therapy to treat disease, and this collaborative work influenced the decision of the UK Parliament to approve the clinical use of these methods.

> *"The award of the CTR NGF was transformative for me during an especially critical time in my career. The NGF allowed me to initiate an ambitious project with a focus on human development, which at the time was challenging to identify support for. I wholeheartedly thank the CTR for their vision and support for this important area of research.*

Amanda Sferruzzi-Perri

Dr Amanda Sferruzzi-Perri is a Professor of Fetal and Placental Physiology in the Department of Physiology, Development and Neuroscience, at the University of Cambridge. Her research is focused on unravelling the environmental and genetic regulation of the placenta and, closely related to this, the in utero programming of adult diseases. Amanda became particularly fascinated by this research area during her PhD at the University of Adelaide, during which she assessed the role of insulin-like growth factors (IGFs) in regulating feto-placental growth. Through an NHMRC Overseas Biomedical Research Fellowship, Amanda then moved to Cambridge, UK to explore interactions of the IGF system with the maternal environment (nutrition, oxygen availability and stress). Facilitated by the award of two consecutive research fellowships (Centre for Trophoblast Research and Royal Society), Amanda went on to examine the role of the IGF/insulin signalling system in maternal-placental-fetal interactions governing pregnancy and lifelong metabolic health of the mother and offspring. These studies continue to feed into her lab's current research programmes in Cambridge and combine novel genetic tools and environmental manipulations, with in vivo functional assays and cellular, metabolic, histological and molecular techniques in vitro. Over the years, Amanda has received several Honours for her work, including the Hans Sigrist Research Prize in 2020, Lister Institute of Preventative Medicine Research Prize in 2018, and the Society for Reproduction and Fertility Young Investigator Award and Andrée Gruslin award from the International Federation of Placenta Associations in 2017. Amanda is regularly invited to speak at conferences and has published 85 scientific papers and 10 contributions to compiled volumes. She is passionate about mentoring and fostering the development of others and is heavily involved in scientific communication and outreach, in part facilitated by her involvement in societies like SRF (Society for Reproduction and Fertility) and IFPA (International Federation of Placenta Associations).

Miguel Branco

Dr Miguel Branco is a Reader in Genome Regulation Centre for Genomics and Child Health Blizard Institute Barts and The London School of Medicine and Dentistry Queen Mary University of London. After graduating in Biochemistry (Univ. Lisbon, Portugal), Miguel did a PhD at the MRC Clinical Sciences Centre in London with Prof. Ana Pombo, where he studied the spatial organisation of the genome. He then joined Prof. Wolf Reik's group at the Babraham Institute in Cambridge to investigate mechanisms of epigenetic regulation, and in particular the role of DNA hydroxymethylation in embryonic stem cells. In 2011 he was awarded a Next Generation Fellowship from the Centre for Trophoblast Research (Univ. of Cambridge) and joined the Blizard Institute (QMUL) in October 2013 after securing a Sir Henry Dale Fellowship from the Wellcome Trust and Royal Society.

> *"The CTR Next Generation Fellowship was an ideal springboard to establish my lab. It provided with the means and independence to delve into a new field, and to generate key preliminary data for career development awards. But the NGF is more than a grant. It is also an invitation to join a vibrant and friendly community. And it is this aspect that has made the largest impact on my research. Having started my NGF from the fringes of trophoblast research, the frequent interactions with these amazing scientists increased my fascination with the field, and steered my research deeper into the world of placental biology.*

Paulina Latos

Dr Paulina Latos is an Associate Professor at the Medical University of Vienna, Austria. Paulina completed her PhD in the lab of Prof. Denise Barlow, where she studied genomic imprinting in embryonic stem cells. Fascinated by stem cell models, she moved to Cambridge, UK, and continued her work on transcriptional regulation of embryonic and trophoblast stem cells in the lab of Dr Brian Hendrich and as the NGF fellow with Prof. Myriam Hemberger at the Cambridge Stem Cell Institute and the Centre for Trophoblast Research. Since 2016 Paulina has headed a lab at the Medical University of Vienna, Austria. The group is interested in elucidating transcriptional networks governing mouse and human placental development and disease, and understanding regulatory mechanisms of cell fate decisions and identity.

> *"The CTR offers a vibrant, creative, and diverse community of scientists, all passionate about diverse aspects of trophoblast biology. Being part of this fantastic network has shaped me as a scientist and allowed me to establish lasting relationships and collaborations. The CTR NGF is more than a fellowship, it is a passport to the community.*

Naomi McGovern

Dr Naomi McGovern carried out her PhD in the laboratory of Prof. Edwin Chilvers the Department of Medicine, University of Cambridge, UK. There she studied the effects of hypoxia on neutrophil biology. Naomi carried out two postdocs, the first in the laboratory of Prof. Matthew Collin, University of Newcastle, UK. During this time, her research was focused on characterising human dermal dendritic cells and macrophages. She carried out her second postdoc in the laboratory of Prof. Florent Ginhoux, Singapore Immunology, Singapore. There she researched human fetal dendritic cell and macrophage biology. In 2017, she moved to the Department of Pathology, University of Cambridge, when she was awarded a CTR NGF fellowship and subsequently a Sir Henry Dale Fellowship allowing my to establish her lab. Her research group is focused on characterising monocytes and macrophages at the maternal – fetal interface, in both health and disease.

> *"The CTR Next Generation Fellowship allowed me to take the first steps in establishing my independent research group. The community of supportive expertise provided by the CTR has been key in establishing collaborations that will help us to understand the role placental macrophages in health and disease*

Nick Burton

Dr Nick Burton explores how a person's environment can impact their health and the health of their offspring. Recently, this work has become particularly interested in the diverse ways microbes and the microbiome can influence these processes. He earned a B.S. in biology from University of Wisconsin-Madison, where he worked in the labs of both Dr. Anna Huttenlocher and Dr. Scott Kennedy. He was then awarded a graduate research fellowship from the National Science Foundation (NSF) and earned a Ph.D. in biology from Massachusetts Institute of Technology, where he studied under the mentorship of Dr. H. Robert Horvitz. As part of his dissertation work, Dr. Burton sought to develop new paradigms to study the mechanisms by which parental environment regulates offspring physiology. In 2017, he joined the Centre for Trophoblast Research at University of Cambridge as an independent Next Generation Fellow. While there, he investigated how environmental bacteria can affect development, physiology, metabolism and neuronal function of individuals and their offspring. In 2021, he joined Van Andel Institute as an assistant professor in the Department of Epigenetics.

> *"During my PhD I made the somewhat unexpected finding that insulin signaling to oocytes could alter offspring metabolism. In lieu of a traditional postdoc, the NGF allowed me the opportunity to build on this finding and establish myself as an independent presence in a new field.*

Courtney Hanna

Dr Courtney Hanna completed her Ph.D. studies in Medical Genetics in Dr. Wendy Robinson's lab at the University of British Columbia in Vancouver, Canada, investigating genetic and epigenetic factors associated with recurrent miscarriage. In 2013, Courtney moved to Cambridge to start a postdoctoral position in Dr. Gavin Kelsey's lab at the Babraham Institute, researching epigenetic programming in mouse oogenesis. In 2018, she undertook the Next Generation Fellowship at the Babraham Institute, with the mentorship of Prof. Myriam Hemberger, to investigate mechanisms of epigenetic regulation in the mouse placenta. Courtney then started her research lab in the Centre for Trophoblast Research in 2021, supported by a Wellcome Trust Sir Henry Dale Fellowship, investigating how early epigenetic programming events are linked to cell identity and gene regulation during placental development.

> *"The Next Generation Fellowship came at a pivotal time in my research career. It provided me with the funding and independence to begin a new research direction after my postdoctoral work, focused on the mouse placenta. The NGF gave me the opportunity to learn new techniques, develop preliminary data for grant applications, and integrated me into the inter-disciplinary network of the CTR. This foundation undoubtedly led to my success in securing subsequent funding to begin my research lab.*

Vicente Perez-Garcia

Following his bachelor's degree in Biology (University of Alicante, Spain), Vicente undertook his PhD assessing the importance of phosphoinositide 3-kinase (PI3K) signalling and cancer cell biology at the National Centre for Biotechnology (Madrid, Spain). He then moved to Cambridge to do his postdoc at the Babraham Institute (Myriam Hemberger's lab). During this time, he was able to demonstrate that many embryonic lethal mutations are associated with defective placental development and, poor reproductive outcomes with advanced maternal age are linked to abnormalities in placentation and decidualisation. In 2018, he was awarded the CTR-Next Generation Fellowship, sponsored by Myriam Hemberger and Margherita Turco labs, to initiate a new line of research investigating the common molecular mechanisms governing cell invasion in trophoblast and metastatic cancer cells. In 2021, he got the Ramon y Cajal award and joined The Centro de Investigación Príncipe Felipe (Valencia, Spain) as a Junior Group Leader. Combining his experience in cancer signalling, epigenetics and placental development, he is investigating the molecular mechanisms of cell invasion shared between the trophoblast cells and metastatic cancer cells using stem cells and organoids as a model.

Irving Aye

Dr Irving Aye completed his undergraduate and master's degrees in Pharmacology at the University of Auckland NZ, followed by a PhD in Obstetrics at the University of Western Australia. He then completed post-doctoral fellowships in the USA (San Antonio, Texas and Denver, Colorado) before joining the Department of Obstetrics & Gynaecology, at the University of Cambridge as a Research Associate. In 2018, he was awarded the Next Generation Fellowship from the Centre for Trophoblast Research to study the role of fetal sex differences in placental function. In 2022, he was awarded the MRC career development award to start his laboratory investigating the role of metabolism during placental development.

> *The NGF was a great boost to my career. It provided the flexibility to develop a research program and learn additional skills in an area where I didn't have a strong track record. One of the greatest benefits of the NGFs is the connections that I have made within the CTR community. Ultimately, the skills and connections I developed because of the NGF provided a solid foundation for me to secure a career development award and establish my lab.*

Claire Senner

Dr Claire Senner in a Next Generation Fellow at the Centre for Trophoblast Research. Claire carried out her PhD with Neil Brockdorff at Imperial College London. There she studied the regulation and function of the long non-coding RNA Xist, the master regulator of X chromosome inactivation, with a particular focus on imprinted X inactivation in the trophoblast lineage. She then joined Myriam Hemberger's lab at the Babraham Institute, as a postdoc, where she characterised global DNA methylation dynamics in both embryo-derived and induced trophoblast stem cells. Claire was awarded a Next Generation Fellowship in 2019 and is currently based in the department of Physiology, Development and Neuroscience at the University of Cambridge. During this time she has collaborated with Erica Watson, studying the impact of impaired one-carbon metabolism on epigenetic stability in the mouse placenta, as well as initiating and leading her independent research into the role of the nonsense mediated decay pathway in implantation and subsequent embryonic and placental development.

Priscilla Day-Walsh

Dr Priscilla Day-Walsh is a Next Generation Fellow at the Centre for Trophoblast Research working in the group of Professor Steve Charnock-Jones in the Departments of Obstetrics & Gynaecology. Her PhD at the University of Southampton provided mechanisms of nutrient transport and metabolism across the human placenta and the impact of maternal factors such as body composition and smoking on placental nutrient transport and metabolism.

Her key research interests are in understanding how the human gut microbiome can be utilised as a novel tool for predicting, preventing and treating pregnancy complications and their associated morbidities and mortalities. In particular her research aims to provide a mechanistic understanding of how the maternal gut microbiota affect maternal-placental-fetal physiology and the impact this has on pregnancy outcomes and health across the life-span.

She believes that understanding the microbiome is key to overcoming some of global medical challenges such as antibiotic resistance, communicable and non-communicable diseases. To this end, she has been instrumental in developing methodological approaches for investigating and analysing microbial metabolites in biological samples. She hopes to combine these methods with functional and metagenomic approaches to understand the role of maternal gut microbiome in pregnancy in health and disease.

Centre for Trophoblast Research (CTR)
www.trophoblast.cam.ac.uk

The CTR was founded in 2007 as a centre of excellence to promote scientific study of the placenta and maternal-fetal interactions during pregnancy. It brings together 28 Principal Investigators, many of whom are recognized international experts in their fields. The CTR was one of the University of Cambridge's first inter-school initiatives, bridging research trophoblast-related research across Cambridge in the School of Biological Sciences (Departments of Pathology, Genetics, and Physiology, Development and Neuroscience), School of Clinical Medicine (Institute of Metabolic Science, Medical Research Council Epidemiology Unit and Department of Obstetrics & Gynaecology) and affiliated institutes (Gurdon, Sanger, Babraham and the Cambridge Stem Cell Institutes). CTR members are united by a mission to understand normal placental development and the mechanisms leading to common placentally-related complications of fertility and pregnancy.

Join us!

Next Generation Fellowship

Applications open in October 2023

The CTR has an established highly-successful program to fund and mentor Next Generation Research Fellowships. Next Generation Fellowships are aimed at promoting the careers of high-calibre individuals pursuing innovative research falling within the remit of the Centre. The Next Generation Fellowships are highly flexible to suit individual needs, and enable the postholder to develop as an independent researcher within a supportive and stimulating environment. Holders are expected, and will be supported, to apply for Research Fellowship/Career Development Awards from research councils or other funders, or a faculty position during their tenure.

The Next Generation Fellowships are a springboard to a long and successful career in the field of placental and reproductive biology. Our Next Generation Fellows have moved on to prestigious positions such as group leaders in outstanding research centres (University of Cambridge, Francis Crick Institute in London, Blizzard Institute and Queen Mary University, Medical University of Vienna).

The CTR accepts applications from highly qualified applicants of all nationalities and will sponsor visa applications. Candidates should hold a PhD and have a high-quality publication track record in academic journals or equivalent. Appointments are made for a period of 3 years and includes a research consuables/equipment budget of up to £20,000 per annum & travel support up to £750. Find out more on our website: www.trophoblast.cam.ac.uk/ngf-overview

CTR Lab Manager

Closing date: 17 July 2023

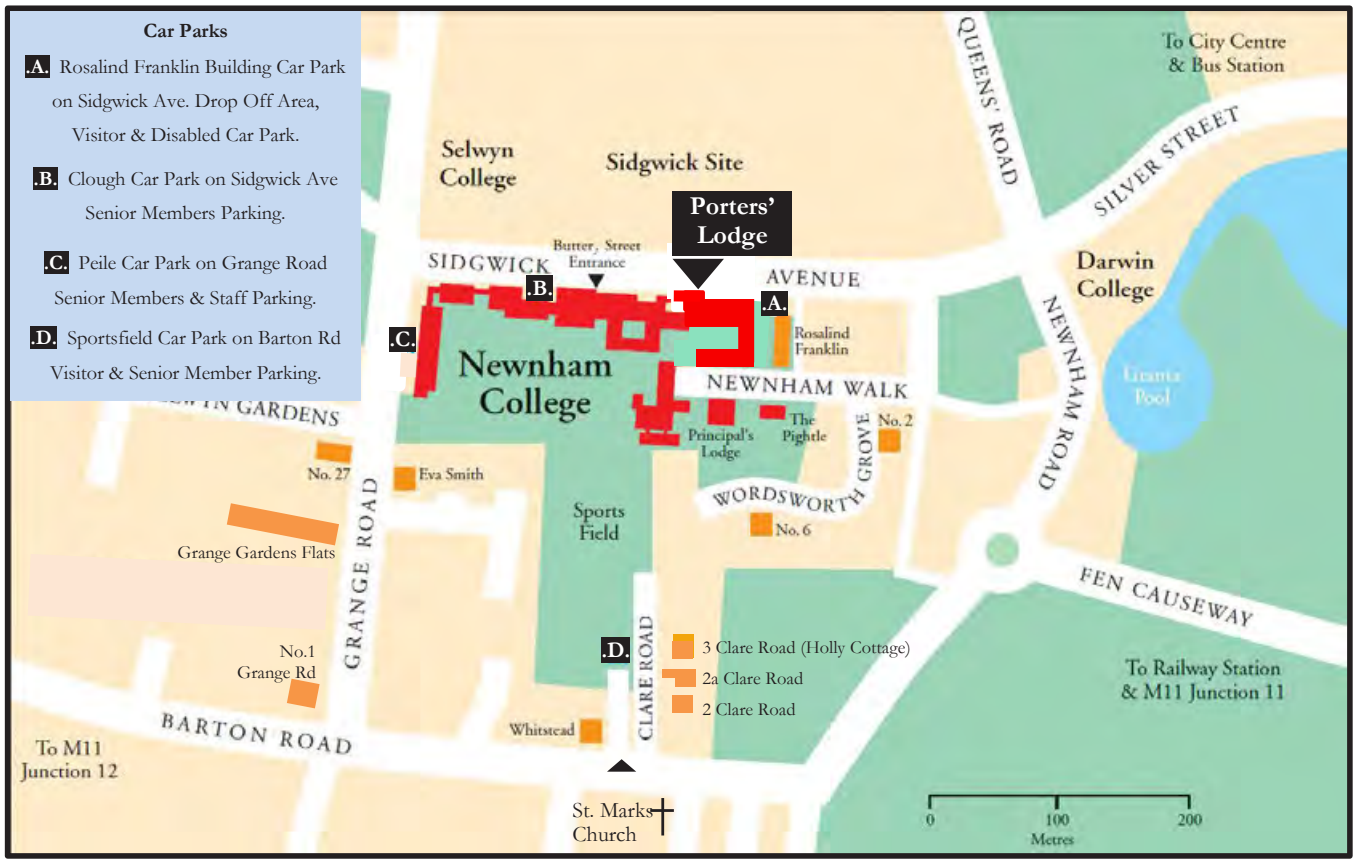
The Centre for Trophoblast Research (CTR) is seeking to recruit a Laboratory Manager to support the interface of clinical and basic sciences research. Reporting to the Director, the Laboratory Manager will help expand the network of clinical collaborators and support the development of innovative research within the CTR, ensuring Cambridge remains a world leader in research in placental biology and reproduction: www.jobs.cam.ac.uk/job/40242/

The CTR Annual Meeting will be held in **Newnham College**, Cambridge (Sidgwick Ave, Cambridge CB3 9DF) and online.

All presentations will take place in the **Cynthia Beerbower Room** (#6), Dorothy Garrod Building, Newnham College Cambridge. During the breaks, refreshments will be served in the **Clough Dining Hall** (#43), where conference posters will be on display.

If you would like to use the Newnham College Wi-Fi, please use: NewnhamGuest, Password: IrisCafe1871. Eduroam and UniOfCam networks are also available for University attendees.

To participate in interactive Q&A, please join the CTR Annual Meeting Slido with the code #AnnualMeeting23 on Slido.com or here: https://app.sli.do/event/rQ6zvrP3xgCVdksTLrBnRk



Newnham College Map

12	Accounts Manager and HR Officer
9	Admissions and Tutorial Office
39	Admissions Tutor (1st flr)
3	Anna Bateson Room
40	Art Room (Holly Cottage)
2	Bar/Café
28	Barbara White Room
50	Buildings Manager & Workshop
15	Bursar
10	Bursary
44	Buttery
2	Café
45	Catering Operations Manager (1st flr)
46	Catering Offices (1st flr)
49	Clough JCR (1st flr)
17	College Accountant
26	College Counsellor
43	College Hall (Clough Dining Hall)
25	College Nurse
21	Communications Director
30	Conference Offices
6	Cynthia Beerbower Room
23	Development Director
13	Domestic Bursar
14	Executive Assistant to the Bursary
36	Graduate Tutors Room (1st flr)
8	Gym X (3rd flr Roof Level & access to Ergs)
20	Gym Y (3rdflr Roof Level)
31	Head Housekeeper
41	Head Gardener
32	Housekeeping Office
12	HR Officer and Accounts Manager
19	I.T. Department
51	Jane Harrison Room
47	Kitchen (Executive Chef)
35	Library and Archives
33	Linen Room
44	Lucia Windsor Room (1st flr)
24	Margaret Anstee Centre
5	Millicent Garrett Fawcett Room
29	MCR
42	Music Practice Rooms (Old Labs)
42	Old Labs
4	Party Room (Basement)
52	Peile JCR (1st flr)
1	Porters' Lodge & Head Porter
16	Principal
18	Principal's Secretary
22	Roll & Development Offices
48	SCR
27	Senior Tutor (1st flr)
37	Sidgwick Computer Room (1st flr)
38	Sidgwick Hall & Sidgwick Alcove
34	Skilliter Centre (1st flr)
7	Supervision Rooms
9	Tutorial & Admissions Office
11	Tutorial & Adm' Office Manager
	Garden Paths (main routes)
	Entrances

Newnham College, Cambridge, CB3 9DF
Porters' Lodge 01223 335 700
Conference Office 01223 335 803

We are The Company of Biologists

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We do this by publishing leading peer-reviewed journals, facilitating scientific meetings and communities, providing travel grants for young researchers and by supporting societies and events.

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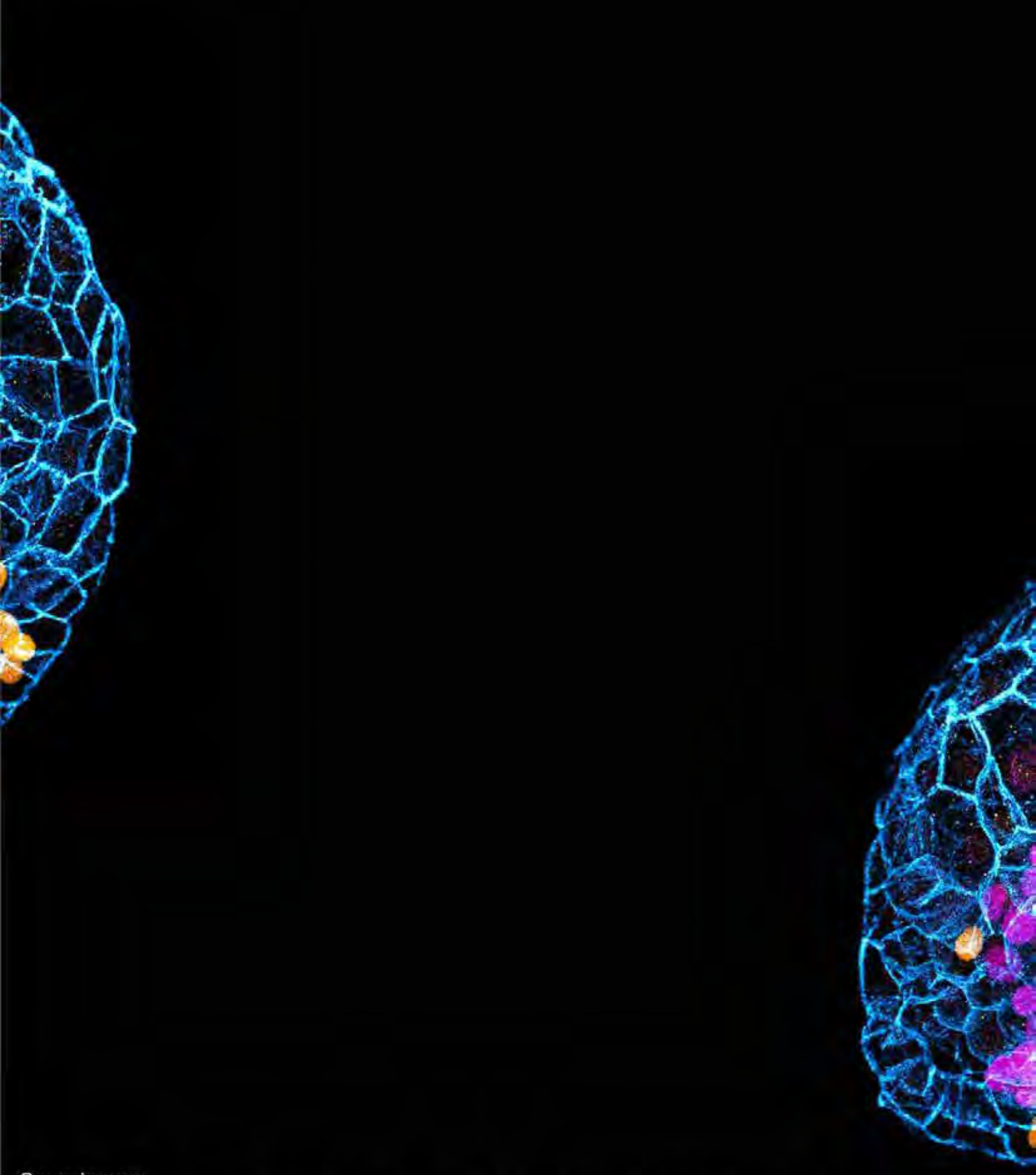

Cover image:
Human blastocyst stained for Plakoglobin (Cyan), SOX17 (Orange) and SOX2 (Magenta)
Provided by Dr Timo Kohler (University of Cambridge)

The Company of Biologists

Thank you to The Company of Biologists for their support of the 2023 CTR Annual Meeting through their Scientific Meeting and Sustainable Conferencing funds.
https://www.biologists.com/