

**SECOND SCIENTIFIC SYMPOSIUM  
GLOBAL CHALLENGES**

# Humanity 4.0

**WHAT WILL OUR LIFE  
LOOK LIKE IN 2050?**

**20TH APRIL 2020  
9.00 A.M. TO 2.30 P.M.**

**Max-Planck Institute  
of Molecular Cell Biology  
and Genetics (MPI-CBG)**

Pfotenhauerstr. 108  
Dresden



**TECHNISCHE  
UNIVERSITÄT  
DRESDEN**



**CBG**

Max Planck Institute  
of Molecular Cell Biology  
and Genetics

# About

In times where all challenges are global in essence, it is becoming even more important to strengthen international collaborative work. Scientists should take a role model in defending the values of an open society.

The transCampus that we have established is our answer to this era of global change and challenges. The transCampus will host a series of talks on stimulating topics of our time.

Inspired by the theory developed by Israeli author and historian Yuval Noah Harari according to which Homo sapiens is evolving to what he calls the "Homo Deus", a group of international experts will discuss fundamental questions of the new millennium.

In a series of symposia, renowned speakers from King's College London and Technische Universität Dresden will debate possible scientific advancements and their moral implications for human advancement.



# Venue

# Hosts

## Organisational Committee Chairperson

### **Professor Hans Müller-Steinhagen**

Rector  
TU Dresden, Germany



### **Professor Edward Byrne**

President & Principal  
King's College London, UK



### **Professor Marina Münkler**

Chair of German Medieval and Renaissance Literature  
and Culture, TU Dresden, Germany  
Member of the German Science Council



### **Professor Stefan Bornstein**

transCampus Dean King's College London, UK  
Dean of International Affairs and  
Chair of Medicine at TUD, Germany



The Max Planck Institute of Molecular Cell Biology and Genetics (MPI-CBG) is one of over 80 institutes of the Max Planck Society, an independent, non-profit organization in Germany. 600 curiosity-driven scientists from over 50 countries ask: How do cells form tissues? The basic research programs of the MPI-CBG span multiple scales of magnitude, from molecular assemblies to organelles, cells, tissues, organs, and organisms.

By advocating research across disciplinary boundaries, creative ways of collaboration, translation, as well as involving the public, the MPI-CBG sets the perfect venue for the second event of the Global Challenges symposia series.

# Programme

## Humanity 4.0 – What Will our Life Look Like in 2050?

**9.00** **Welcome and Introduction**

**a.m.** **Prof Hans Müller-Steinhagen**

Rector, TU Dresden

**Prof Ed Byrne**

President & Principal, King's College London

**9.30 – 11.00** **1st Session: You can Change the World**

**11.00**

**a.m.** **You can do it - How to Start Your Global Enterprise for a Better Life**  
**Vered Caplan**

President, Chief Executive Officer and Director of Orgenesis Inc.

**From University Start-up to Entrepreneurial Skills**

**Julie Devonshire OBE**

Director, Entrepreneurship Institute, King's College London

**Taking Cardiac Surgery to the People**

**Prof Sir Magdi Yacoub FRS, OM**

Professor of Cardiothoracic Surgery at the National Heart and Lung Institute,  
Imperial College London,

Founder and President of the Chain of Hope,

Founder and Director of the Magdi Yacoub Heart Foundation

**11.00** **Coffee Break**

**a.m.**

# Programme

## 11.30 – 2nd Session: Shaping our Future and Minds

12.30

### a.m. Acts of Attention in the Age of the Internet

#### **Prof Marion Thain**

Executive Dean of the Faculty of Arts & Humanities,  
Professor of Literature and Culture, King's College London

### The Significance of Narratives in Times of Autodidactic AI

#### **Prof Marina Münkler**

Professor for Elderly and Early Modern German Literature and Culture,  
TU Dresden, Member of Scientific Council of Germany

### Water, Soil, Waste and Energy – the Resource Nexus that Shapes our Future.

#### **Prof Edeltraud Günther**

Director United Nations University, Institute for Integrated Management of  
Material Fluxes and of Resources (UNU-FLORES), Dresden  
Chair of Business Management, Sustainable Management and Environmental  
Accounting

## 12.30 Summary and Outlook

a.m.

### **Prof Ed Byrne**

President & Principal, King's College London

### **Prof Stefan Bornstein**

transCampus Dean

Dean of International Affairs and Chair of Medicine at TU Dresden, Germany

## 1.00 Round-table Discussions and Lunch Buffet

p.m.

Round table sessions with the speakers

Networking



Hans Müller-Steinhagen

**Hans Müller-Steinhagen** has been Rector of TU Dresden since August 2010. He held academic positions at universities in Canada, New Zealand and England, and as a director in the German Aerospace Centre from 2000-2010. He has been awarded honorary doctorates from Brno University of Technology (Czech Republic), Dankook University (South Korea) and Shiraz University (Iran). It is his strong personal conviction that working in an international and diverse community results in innovative ideas and scientific progress.



Edward Byrne

**Edward Byrne** is the President and Principal of King's College London. He is a neuroscientist and clinician by background and has made major research contributions in the field of mitochondrial medicine and neuromuscular disorders. Professor Byrne has held many prestigious clinical and research positions in Australia and the UK. He received the AO (Officer of the Order of Australia) in 2006 and the AC (Companion of the Order of Australia) in 2014.



Marina Münkler

**Marina Münkler** has been Chair of German Medieval and Renaissance Literature and Culture at TU Dresden since January 2010. In February 2017, she was appointed a member of the German Science Council by the German President Joachim Gauck. Marina is Deputy Chairperson of the DFG-funded Collaborative Research Center 'Inactivity. Constellations and Dynamics of disparagement' (SFB 1285). Her research focusses on the experience of the foreign, friendship and community spirit, migration and integration, as well as literature and language of inactivity in the early modern times.



Stefan Bornstein

**Stefan Bornstein** was appointed Dean of the transCampus in 2015. His efforts of building bridges between cultures and nations and especially in bringing together King's and TUD in the first successful transCampus model has earned him the Order of Merit of the Federal Republic of Germany. Stefan Bornstein is Director of the Department of Internal Medicine at the University Hospital Carl Gustav Carus and Dean for Development and International Affairs at the Faculty of Medicine at TU Dresden.



Edeltraud Guenther

**Prof. Edeltraud Guenther** is the Director of the United Nations University Institute for Integrated Management of Material Fluxes and of Resources in Dresden, Germany. An internationally recognised expert in environmental management and sustainability assessment, she took over the leadership of UNU-FLORES on 1 September 2018. Her research focuses on environmental management, accounting, and economics with a focus on corporate responsibility, corporate carbon and climate accounting, life cycle assessment, and sustainable corporate governance.



✓ **Marion Thain** began her career as a Junior Research Fellow at Cambridge University, and then worked in English departments at Russell Group universities in the UK as Junior Lecturer (Assistant Professor), Senior Lecturer (Associate Professor) and then Reader (Full Professor, by research), before moving to New York University as a professor of Arts and Literature in the interdisciplinary global liberal arts (Liberal Studies), and Director of Digital Humanities for NYU. She returned to the UK to take up the position of Professor of English and Dean of the Faculty of Arts and Humanities at King's in autumn 2018.

Marion Thain



✓ **Julie Devonshire** is the Director of the Entrepreneurship Institute at King's College London. Before joining King's Julie was the Director of Ventures at UnLtd supporting exceptional, early stage social entrepreneurs across the country to scale and to raise investment. Julie is an award-winning social entrepreneur and business-scaling expert; she successfully scaled One Water, a range of bottled mineral water donating 100% of its profits to build hundreds of water pumps in sub-Saharan Africa. In 2016 Julie was awarded an OBE, in the Queen's 90th Birthday Honours List, for her service to entrepreneurship.

Julie Devonshire OBE



✓ **Vered Caplan** is one of the most active biotech entrepreneurs arising from the Israeli biotech industry. She has been at the head of 8 different companies, and all focused on the healthcare space. Presently, she is Chairman, President & Chief Executive Officer at Orgenesis, Inc. She is also on the board of 6 other companies. She previously held the position of Chief Executive Officer of Kamedis and Chief Executive Officer for Gammacan International, Inc. She received a graduate degree from Tel-Aviv University and an undergraduate degree from the Technion-Israel Institute of Technology.

Vered Caplan



✓ **Prof Sir Magdi Yacoub** is, inter alia, Professor of Cardiothoracic Surgery at the National Heart and Lung Institute, Imperial College London, and Director of the Magdi Yacoub Heart Foundation which created the Aswan Heart Centre. This centre in Aswan offers state-of-the-art medical services free of charge to all patients regardless of colour, religion, or gender and trains a generation of young Egyptian doctors, nurses, scientists, and technicians at the highest international standards. Among his honours he was awarded Knighthood for his services to medicine and surgery and the Order of Merit by Her Majesty Queen Elizabeth II in the 2014 New Year's Honours list.

Sir Magdi Yacoub



Supported by:



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