**EMBO/EMBL Symposium**

**Diabetes and Obesity**

13–16 September 2012
Thursday–Sunday
EMBL Advanced Training Centre
Heidelberg | Germany

**Organizers**
Jens Brüning
University of Cologne, Germany
Matthias Tschöp
Cincinnati Obesity and Diabetes Centre (CDOC), USA

**Keynote Speakers**
Richard DiMarchi
Indiana University, USA
Jeremy Friedman
Howard Hughes Medical Institute, USA
Markus Stoffel
ETH Zürich, Switzerland

Recently, the incidence of metabolic diseases such as obesity and diabetes has risen to epidemic proportions. Experts will come together to discuss multi-layered and complex processes leading up to novel therapeutic strategies for diabetes, obesity and related health issues, such as cancer and cardiovascular disease, including:

- systems biology of multi-organ communication involved in pathophysiology
- molecular interplay between immune processes and metabolic pathways
- mechanistic translational research and future pharmacologies

**EMBO/EMBL Symposium**

**Quality Control From Molecules to Organelles**

19–22 September 2012
Wednesday–Saturday
EMBL Advanced Training Centre
Heidelberg | Germany

**Organizers**
Bernd Bukau
University of Heidelberg, Germany
John Di Firey
Cancer Research UK, United Kingdom
Matthias Hentze
EMBL, Heidelberg, Germany

**Keynote Speakers**
Elisa Izaurralde
Max Planck Institute for Developmental Biology, Germany
Susan Lindquist
Whitehead Institute for Biomedical Research, USA

Cells constantly suffer damage and generate errors. All cells from bacteria to human have developed powerful quality control systems to detect and minimize the damage that would ensue if mistakes and abnormal molecules went unchecked and uncorrected.

Generating a unique forum of interdisciplinary discussion, the symposium will focus on quality control mechanisms of:

- the genome (DNA)
- the transcriptome (RNA)
- the proteome

**EMBO/EMBL Symposium**

**The Complex Life of mRNA**

7–10 October 2012
Sunday–Wednesday
EMBL Advanced Training Centre
Heidelberg | Germany

**Organizers**
Anne Ephrussi
EMBL Heidelberg, Germany
Nahum Sonenberg
McGill University, Canada
Joan A. Steitz
Yale University and HHMI, USA
David Tollervey
Wellcome Trust Centre for Cell Biology, United Kingdom

**Keynote Speakers**
Elena Conti
Max Planck Institute of Biochemistry, Martinsried, Germany
Steven McKnight
UT Southwestern Medical Center, Dallas, USA
Nikolaus Rajewsky
Max-Delbrück Center for Molecular Medicine, Berlin, Germany

Messenger RNAs (mRNAs) are key components in the transmission of genetic information in all life forms – from viruses to complex mammalian organisms.

Leaders in the RNA field will come together to discuss:

- transcription
- mRNA processing
- export and localization
- mRNA surveillance and decay
- translation and control of mRNA expression by microRNAs

**EMBO/EMBL Symposium**

**Germline Immortality through Totipotency**

13–16 October 2012
Saturday–Tuesday
EMBL Advanced Training Centre
Heidelberg | Germany

**Organizers**
Edith Heard
Institut Curie, France
Ruth Lehmann
New York University School of Medicine and HHMI, USA
Janet Rossant
University of Toronto, Canada

**Keynote Speakers**
Angelika Amon
Massachusetts Institute of Technology, USA
John Gurdon
Welcome Trust/Cancer Research UK Gurdon Institute, United Kingdom
Azim Surani
Welcome Trust/Cancer Research UK Gurdon Institute, United Kingdom

The life of a species continues via germ line from generation to generation. Addressing fundamental questions of totipotency including how:

- a need for germline specification arose during the evolution of multicellularity
- the fertilized egg cell loses totipotency during formation of a multicellular organism
- chromatin-based mechanisms influence totipotency
- the decision towards meiosis is achieved and regulated

**EMBO/EMBL Symposium**

**ABSTRACT SUBMISSION DEADLINE**

- 5 July 2012
- 12 July 2012
- 2 August 2012
- 9 August 2012
- 2 August 2012
- 9 August 2012
- 30 August 2012

**REGISTRATION DEADLINE**

- 2 August 2012
- 23 August 2012
- 23 August 2012
- 30 August 2012

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19/08/2011 07:29
EMBO | EMBL Symposia
New Perspectives on Immunity to Infection

19–22 May 2012
Saturday – Tuesday
EMBL Advanced Training Centre
Heidelberg | Germany

KEYNOTE SPEAKER
Max Cooper
Emory University, USA

Discussions relating to host–pathogen interactions from the molecular to the population level will play a central role in this symposium. The goal is to identify critical determinants that dictate whether this encounter leads to resistance or disease.

Sessions will focus on:
➔ pathogenesis of infectious diseases
➔ host immunity to infection

About EMBO|EMBL Symposia
The EMBO | EMBL Symposia promote scientific communication and collaboration in the European research area. They provide scientists with a platform to discuss and exchange ideas on forward-looking topics and new developments in the life sciences.

Topics emphasize upcoming developments and the interdisciplinary nature of related fields. Jointly funded and organized by EMBO and EMBL – and complementary to their respective courses, workshops, and conference programmes – the symposia promote scientific communication and collaboration.

regulation fee waivers and travel grants are available for young researchers.

new perspectives on immunity to infection
19–22 May 2012

Diabetes and Obesity
13–16 September 2012

Quality Control – From Molecules to Organisms
19–22 September 2012

The Complex Life of mRNA
7–10 October 2012

Germline – Immortality through Totipotency
13–16 October 2012

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