
Wednesday 19 September 2012

- 15:00 - 17:15 **Arrival and Registration**
ATC reception area
- 17:15 - 17:30 **Welcome**
ATC Klaus Tschira Auditorium
- 17:30 - 20:05 **Keynote Session**
Session Chairs:
John Diffley, *Cancer Research UK, United Kingdom*
Matthias Hentze, *EMBL Heidelberg, Germany*
Bernd Bukau, *Centre for Molecular Biology of the University of Heidelberg
and German Cancer Research Center, Germany*
ATC Klaus Tschira Auditorium
- 17:30 - 18:15 **Double-Strand Break Repair: Regulation by SUMO and Homology Search** 1
Stefan Jentsch
Max Planck Society, Germany
- 18:15 - 19:00 **mRNA Quality Control: Insights into the Mechanism of Nonsense-mediated mRNA Decay** 2
Elisa Izaurralde
Max Planck Institute for Developmental Biology, Germany
- 19:00 - 19:20 **COFFEE BREAK**
ATC Foyer
- 19:20 - 20:05 **A Ribosome-Bound Quality Control Complex Triggers Degradation of Nascent Peptides and Signals Translation Stress** 2A
Jonathan Weissman
*Howard Hughes Medical Institute / UCSF,
United States of America*
Kindly sponsored by Open Biology
ATC Klaus Tschira Auditorium
- 20:05 - 21:30 **DINNER**
Canteen
- 21:30 - 23:00 **After dinner drinks in the ATC Roof Top Lounge**

Thursday 20 September 2012

- 09:00 - 10:30 **Session 1 Quality control of genomic information**
Chair: Stefan Jentsch, *Max Planck Institute of Biochemistry, Germany*
ATC Klaus Tschira Auditorium
- 09:00 - 09:30 **Guarding the Genome: Centromeres, Aneupoidy and Tumorigenesis** 3
Don Cleveland
Ludwig Institute for Cancer Research, United States of America
- 09:30 - 10:00 **Erroneous progression of restarted replication forks** 4
Antony Carr
University of Sussex, United Kingdom
- 10:00 - 10:15 **Induction of a G1-S checkpoint in fission yeast** 5
Beata Grallert
OUS, Institute for Cancer Research, Norway
- 10:15 - 10:30 **Epigenetic control of DNA replication dynamics in mammals** 6
Corella Casas-Delucchi
Technische Universität Darmstadt, Germany
- 10:30 - 11:00 **COFFEE BREAK**
ATC Foyer
- 11:00 - 12:30 **Session 1 Continued**
Chair: Don W. Cleveland, *Ludwig Institute for Cancer Research, USA*
ATC Klaus Tschira Auditorium
- 11:00 - 11:30 **Quality control during cell division: the kinetochore version** 7
Andrea Musacchio
MPI of Molecular Physiology, Germany

11:30 - 12:00	Transcription and R-loop mediated genome instability Andrés Aguilera <i>CABIMER-Universidad de Sevilla, Spain</i>	8
12:00 - 12:15	Non-coding telomeric RNA (TERRA) must be tightly regulated to prevent premature senescence Brian Luke <i>University of Heidelberg, ZMBH, Germany</i>	9
12:15 - 12:30	Regulation of replication initiation by Treslin/ticrr (vertebrate Sld3) and its novel binding partner MTBP Dominik Boos <i>CRUK London Research Institute, United Kingdom</i>	10
12:30 - 14:00	LUNCH ATC Foyer	
14:00 - 15:45	Session 2 Quality control of transcription and RNA Chair: Elena Conti, <i>Max Planck Institute of Biochemistry, Germany</i> ATC Klaus Tschira Auditorium	
14:00 - 14:30	Structure-function analysis of quality control in mRNA biogenesis Patrick Cramer <i>Gene Center - LMU, Germany</i>	11
14:30 - 15:00	Ubiquitylation and Degradation of Elongating RNA Polymerase II: The Last Resort Jesper Svejstrup <i>Cancer Research UK, United Kingdom</i>	12
15:00 - 15:15	Sirt7 adapts RNA polymerase I activity to cellular stress Renate Voit <i>German Cancer Research Center, Germany</i>	13

- 15:15 - 15:30 **CWC22 Connects pre-mRNA Splicing and Exon Junction Complex Assembly** 14
Niels Gehring
University of Cologne, Germany
- 15:30 - 15:45 **Selective autophagy mediates homeostatic degradation of DICER and AGO2 and regulates miRNA activity** 15
Derrick Gibbings
University of Ottawa, Canada
- 15:45 - 16:15 **COFFEE BREAK**
ATC Foyer
- 16:15 - 18:00 **Session 2 Continued**
Chair: Patrick Cramer, *University of Munich, Germany*
ATC Klaus Tschira Auditorium
- 16:15 - 16:45 **RNase II-family members and their crucial role in Processing, Degradation, and Quality Control of RNAs** 16
Cecilia Arraiano
*ITQB- Instituto de Tecnologia Química e Biológica
Universidade Nova de Lisboa, Portugal*
- 16:45 - 17:15 **Regulated 3' end processing – Implications for the control of blood coagulation, innate immunity and tumor spread** 17
Andreas Kulozik
University of Heidelberg, Germany
- 17:15 - 17:45 **Mechanisms of RNA degradation: the 3'-5' exosome complex** 18
Elena Conti
Max Planck Institute of Biochemistry, Germany

- 17:45 - 18:00 **Stress-induced degradation of newly synthesized polypeptides is mediated by ribosome-associated RACK1/JNK/eEF1A2 complex** 22
Valentina Gandin
McGill University, Canada
- 18:00 - 20:00 **Poster Session I – odd numbers**
ATC Helix A & B
- 20:00 - 21:30 **DINNER**
Canteen
- 21:30 - 23:00 **After dinner drinks in the ATC Roof Top Lounge**

Friday 21 September 2012

- 09:00 - 10:30 **Session 3 Quality control of translation and proteins in the cytosol**
Chair: Judith Frydman
ATC Klaus Tschira Auditorium
- 09:00 - 09:30 **Angiogenin, tRNA and Amyotrophic Lateral Sclerosis** 23
Paul Anderson
Harvard Medical School, United States of America
- 09:30 - 10:00 **Observation of mRNA Surveillance in Living Yeast by Ribosome Profiling** 24
Rachel Green
Johns Hopkins University School of Medicine, United States of America
- 10:00 - 10:15 **Protein quality control systems coupled with No-Go and Non-Stop mRNA surveillance in yeast** 25
Toshifumi Inada
Tohoku University, Japan
- 10:15 - 10:30 **Listerin/Ltn1, an E3 ligase implicated in neurodegeneration, mediates a novel pathway of cytoplasmic protein quality control** 26
Claudio Joazeiro
The Scripps Research Institute, United States of America
- 10:30 - 11:00 **COFFEE BREAK**
ATC Foyer
- 11:00 - 12:30 **Session 3 Continued**
Chair: Anne Bertolotti, *MRC Laboratory of Molecular Biology, United Kingdom*
ATC Klaus Tschira Auditorium
- 11:00 - 11:30 **Principles of cotranslational ubiquitination and quality control at the ribosome** 27
Judith Frydman
Stanford University, United States of America

- 11:30 - 12:00 **Aneuploidy causes proteotoxic stress** 28
 Angelika Amon
Koch Institute/MIT, United States of America
- 12:00 - 12:15 **A novel approach towards recovery of function of mutant proteins by slowing down translation** 112
 Michael Sherman
Boston University, United States of America
- 12:15 - 12:30 **Molecular chaperones and stress-inducible protein sorting factors coordinate the spatio-temporal distribution of protein aggregates** 29
 Liliana Malinowska
Max Planck Institute of Molecular Cell Biology and Genetics, Germany
- 12:30 - 14:00 **LUNCH**
 ATC Foyer
- 14:00 - 15:45 **Session 4 Protein Quality Control in the ER and protein degradation**
 Chair: Jennifer Lippincott-Schwartz, *NICHD, USA*
 ATC Klaus Tschira Auditorium
- 14:00 - 14:30 **Regulation and structure of a novel AAA+/ubiquitin ligase protein, mysterin** 32
 Kazuhiro Nagata
Kyoto Sangyo University, Japan
- 14:30 - 15:00 **The HRD ubiquitin ligase contributes to ER-homeostasis by virtue of its holdase function** 31
 Thomas Sommer
Max-Delbrück-Center for Molecular Medicine, Germany
- 15:00 - 15:15 **Ubiquitin-Dependent Intramembrane Rhomboid Protease Promotes ERAD of Membrane Proteins** 33
 Marius Lemberg
ZMBH, Heidelberg University, Germany

EMBO|EMBL Symposium Quality Control - From Molecules to Organelles

- 15:15 - 15:30 **RedOx visualization by Fluorescence Lifetime Imaging reveals stability of the ER oxidative milieu** 34
Edward Avezov
University of Cambridge, United Kingdom
- 15:30 - 15:45 **RNA Surveillance is required for Endoplasmic Reticulum Homeostasis** 35
Kenjiro Sakaki
Tokyo Women's Medical University, Japan
- 15:45 - 16:15 **COFFEE BREAK**
ATC Foyer
- 16:15 - 18:15 **Session 4 Continued**
Chair: Kaz Nagata, *Kyoto Sangyo University, Japan*
ATC Klaus Tschira Auditorium
- 16:15 - 16:45 **Surviving proteasome inhibition** 36
Anne Bertolotti
MRC LMB, United Kingdom
- 16:45 - 17:15 **Autophagic turnover of proteins and organelles** 37
Jennifer Lippincott-Schwartz
National Institute of Health, United States of America
- 17:15 - 17:45 **Ubiquitin and autophagy networks in human diseases** 38
Ivan Dikic
*Institute of Biochemistry II and Buchmann
Institute for Molecular Life Sciences of Goethe University
Frankfurt, Germany*
- 17:45 - 18:00 **Reprogramming of an ubiquitin ligase reveals insight into the ubiquitin code** 39
Hermann-Josef Meyer
*University of California, Berkeley, Molecular & Cell Biology,
United States of America*
- 18:00 - 18:15 **The Role of ERp44 in Maturation of Serotonin Transporter Protein** 40
Fusun Kilic
UAMS, United States of America

18:15 - 20:00 **Poster Session II – even numbers**
ATC Helix A & B

20:00 - 00:00 **BBQ and Party**
Canteen

Saturday 22 September 2012

09:00 - 10:30	Session 5 Chaperone networks and stress responses Chair: Ivan Dikic, <i>Goethe University, Frankfurt, Germany</i> ATC Klaus Tschira Auditorium	
09:00 - 09:30	Chaperone mechanisms in protein folding and proteostasis F. Ulrich Hartl <i>Max Planck Institute of Biochemistry, Germany</i>	41
09:30 - 09:45	DNAJB6, a non-canonical molecular chaperone that delays peptide seeding in aggregation diseases Harm Kampinga <i>UMCG, The Netherlands</i>	42
09:45 - 10:00	Metazoan Hsp70 machines use Hsp110 to power protein disaggregation Heike Rampelt <i>ZMBH, University of Heidelberg and DKFZ, Germany</i>	43
10:00 - 10:15	Triaging Hsp70-associated proteins in the eukaryotic cytoplasm Claes Andréasson <i>Stockholm University, Sweden</i>	44
10:15 - 10:30	Disruption of Regulatory Elements in Hsp100 Disaggregase Unleashes Toxic Hyperactivity and Partial Independence from Hsp70 Krzysztof Liberek <i>University of Gdansk, Poland</i>	45
10:30 - 11:00	COFFEE BREAK ATC Foyer	
11:00 - 12:45	Session 5 Continued Chair: Angelika B. Amon, <i>Koch Institute for Integrative Cancer Research, HHMI, MIT, USA</i> ATC Klaus Tschira Auditorium	

11:00 - 11:30	Shared and Unique Targets of Mammalian Heat Shock Factors in Cell Stress Lea Sistonen <i>Åbo Akademi University, Finland</i>	46
11:30 - 12:00	The UPRER is a Cell Non-Autonomous Regulator of Stress Resistance and Longevity Andrew Dillin <i>UC Berkeley - HHMI, United States of America</i>	47
12:00 - 12:15	Mitochondrial malfunction and autophagy - a double-edged sword Nuno Raimundo <i>Yale School of Medicine, United States of America</i>	48
12:15 - 12:45	Proteostasis - Regulating Proteome Stability in Biology, Aging, and Disease Richard Morimoto <i>Northwestern University, United States of America</i>	49
12:45 - 13:00	Poster Prize and closing remarks John Diffley, Cancer Research UK, United Kingdom ATC Klaus Tschira Auditorium	
13:00 - 13:15	Packed Lunch ATC Foyer Busses leave EMBL at 13:30	