<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:30 - 14:30</td>
<td>Arrival and Registration&lt;br&gt;ATC Reception</td>
</tr>
<tr>
<td>14:30 - 14:45</td>
<td>Welcome remarks&lt;br&gt;ATC Auditorium</td>
</tr>
<tr>
<td>14:45 - 16:30</td>
<td>Session 1: Non-coding and viral RNAs&lt;br&gt;Chair: Shobha Vasudevan&lt;br&gt;ATC Auditorium</td>
</tr>
<tr>
<td>14:45 - 15:15</td>
<td>A Specialized Mechanism of MicroRNA-mediated Translation in Quiescence&lt;br&gt;Shobha Vasudevan&lt;br&gt;&lt;i&gt;MGH Cancer Center-Harvard Medical School, United States of America&lt;/i&gt;</td>
</tr>
<tr>
<td>15:15 - 15:30</td>
<td>Key role of RNA structural context and its dynamic structural transformations promoted by miR-122 in the hepatitis C virus IRES-40S pre-initiation complex&lt;br&gt;Maria Ascension Ariza-Mateos&lt;br&gt;&lt;i&gt;Instituto de Parasitologia y Biomedicina &quot;Lopez-Neyra&quot; CSIC, Spain&lt;/i&gt;</td>
</tr>
<tr>
<td>15:30 - 15:45</td>
<td>Deconvoluting the distinct functions of DEAD-box helicases miRNA-mediated translational repression&lt;br&gt;Ania Wilczynska&lt;br&gt;&lt;i&gt;MRC Toxicology Unit, United Kingdom&lt;/i&gt;</td>
</tr>
<tr>
<td>15:45 - 16:00</td>
<td>The dead-box helicase DHH1 promotes translation of highly structured mRNAs&lt;br&gt;Jennifer Jungfleisch&lt;br&gt;&lt;i&gt;UPF, Spain&lt;/i&gt;</td>
</tr>
<tr>
<td>16:00 - 16:15</td>
<td>The Levels of a Universally Conserved tRNA Modification Modulates TOR Activity and Regulates Growth in Drosophila&lt;br&gt;Diego Rojas-Benítez (Presenter: Alvaro Glavic)&lt;br&gt;&lt;i&gt;Universidad de Chile, Chile&lt;/i&gt;</td>
</tr>
</tbody>
</table>
16:15 - 16:30  **Optimization of codon translation rates via tRNA modifications maintains proteome integrity**
Danny Nedialkova
*MPI for Molecular Biomedicine, Germany*

16:30 - 17:00  **Coffee Break**
ATC Foyer

17:00 - 18:30  **Keynote session**
ATC Auditorium

17:00 - 17:45  **Molecular Mechanism of Scanning and Start Codon Selection**
Alan Hinnebusch
*National Institutes of Health, United States of America*

17:45 - 18:30  **The CPEB-family of RNA-binding proteins, mechanisms of action and new somatic functions**
Raúl Méndez
*IRB Barcelona, Spain*

18:30 - 20:00  **Dinner**
ATC Canteen

20:00 - 21:00  **Keynote session (continued)**
ATC Auditorium

20:00 - 21:00  **SnRNPs: from the spliceosome to virus-infected cells**
Joan Steitz
*Yale University School of Medicine, United States of America*

21:00 - 22:00  **Welcome reception**
ATC Foyer and Rooftop Lounge
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00 - 12:30</td>
<td>Session 2: Translation initiation</td>
<td>William Merrick</td>
<td>ATC Auditorium</td>
</tr>
<tr>
<td>09:00 - 09:10</td>
<td>Introduction</td>
<td>William Merrick</td>
<td>ATC Auditorium</td>
</tr>
<tr>
<td>09:10 - 09:25</td>
<td>Translation initiation on consecutive ribosomes upon polysome formation</td>
<td>Irena Andreeva</td>
<td>MPI for Biophysical Chemistry, Germany</td>
</tr>
<tr>
<td>09:25 - 09:40</td>
<td>eIF3 stabilizes the translation pre-initiation complex at both the mRNA entry and exit channels, collaborating with eIF4F at the entry channel</td>
<td>Colin Aitken</td>
<td>NICHD/NIH, United States of America</td>
</tr>
<tr>
<td>09:40 - 09:55</td>
<td>Structures reveal budding yeast eIF3 preparing the 40S for translation initiation</td>
<td>Christopher Aylett</td>
<td>ETH Zurich, Switzerland</td>
</tr>
<tr>
<td>09:55 - 10:10</td>
<td>Mechanistic insights into Eukaryotic Translation Initiation by Cryo-EM reconstructions</td>
<td>Tanweer Hussain</td>
<td>MRC Laboratory of Molecular Biology, United Kingdom</td>
</tr>
<tr>
<td>10:10 - 10:25</td>
<td>The β-hairpin of 40S exit channel protein Rps5/uS7 promotes efficient and accurate translation initiation in vivo</td>
<td>Jyothsna Visweswaraiah</td>
<td>National Institutes of Health, United States of America</td>
</tr>
<tr>
<td>10:25 - 10:55</td>
<td>Coffee Break</td>
<td></td>
<td>ATC Auditorium</td>
</tr>
</tbody>
</table>
10:55 - 11:10  **CK2 and mTORC1 coordinate ternary and the eIF4F complex assembly**  
Ivan Topisirovic  
*Lady Davis Institute, McGill University, Canada*

11:10 - 11:30  **eIF4F: The disassembly hypothesis**  
William Merrick  
*Case Western Reserve University, United States of America*

11:30 - 11:45  **The Evolution of Initiator tRNA carriers: eIF2A is the mate of eIF5B**  
Eunah Kim  
*POSTECH, Korea, Republic of*

11:45 - 12:00  **Stimulation of translation initiation on a poor start codon by downstream nascent peptide-induced elongation pause**  
Ivaylo Ivanov  
*NiH, United States of America*

12:00 - 12:15  **IRESs as translational enhancers of gene expression in hypoxic stress**  
Anne-Catherine Prats  
*University of Toulouse, France*

12:15 - 12:30  **Identification of an IRES element in the human mTOR transcript that insures its expression and function during inhibition of global translation**  
Luísa Romão  
*Instituto Nacional de Saúde Doutor Ricardo Jorge, Portugal*

12:30 - 14:00  **Lunch**  
*ATC Foyer*

14:00 - 17:30  **Session 3: Interconnections between translation and other processes**  
Chair: Mordechai Choder  
*ATC Auditorium*
14:00 - 14:30  **A system view of gene expression**
Mordechai Choder
*Technion - Israel Institute of Technology, Israel*

14:30 - 14:45  **Massive RNAi screening identifies key drivers of transcriptome 3’ end diversity with prognostic relevance in human neuronal tumors**
Anton Ogorodnikov
*University Medical Centre of the Johannes Gutenberg-University, Germany*

14:45 - 15:00  **HSF1 critically attunes proteotoxic-stress sensing by mTORC1 to combat stress and promote growth**
Kuo-hui Su (Presenter: Chengkai Dai)
*The Jackson Laboratory, United States of America*

15:00 - 15:15  **A note of caution: on the importance to distinguish active regulation from passive changes in translation efficiency**
Johanna Schott
*German Cancer Research Center (DKFZ) and Center for Molecular Biology of the University of Heidelberg (ZMBH), DKFZ-ZMBH Alliance, Heidelberg, Germany*

15:15 - 15:30  **Ribosome profiling to decipher translational consequences of [PSI+] in yeast**
Olivier Namy
*CNRS, France*

15:30 - 16:00  **Coffee Break and Meet the Speakers**
ATC Foyer

16:00 - 16:15  **Mechanisms of Circadian Translation**
Jonathan Lipton
*Boston Children’s Hospital/Harvard Medical School, United States of America*
16:15 - 16:30 Ubiquitylation of ribosomal proteins governs the fate of stalled ribosomes
Toshifumi Inada
Graduate School of Pharmaceutical Sciences, Tohoku University, Japan

16:30 - 16:45 Upf1 Interacts with Release Factors to Stimulate Peptide Hydrolysis at Termination Codons
Anthony Schuller
Johns Hopkins University School of Medicine, United States of America

16:45 - 17:00 Codon optimality and 3'UTR length determine maternal mRNA stability in zebrafish
Yuichiro Mishima
The University of Tokyo, Japan

17:00 - 17:15 Dhh1 regulates translation by monitoring codon optimality
Aditya Radhakrishnan
Johns Hopkins Medical Institute, United States of America

17:15 - 17:30 The Ski complex binds 80S ribosomes for 3' to 5' decay of mRNA in NSD
Christian Schmidt
Genzentrum LMU Munich, Germany

17:30 - 18:00 Pre-dinner drinks
ATC Foyer

18:00 - 19:30 Dinner
ATC Canteen

19:30 - 21:30 Poster Session I
ATC Helices

21:30 - 22:30 Wine & Cheese
ATC Foyer
Friday 11 September 2015

09:00 - 12:00 Session 4: The Ribosome
Chair: Christian Spahn
ATC Auditorium

09:00 - 09:30 To be presented onsite
Christian Spahn
Charité Berlin, Germany

09:30 - 09:45 The Human Mitochondrial Ribosome
Alexey Amunts
MRC Laboratory of Molecular Biology, United Kingdom

09:45 - 10:00 Defining the Landscape of Ribosome Interacting Proteins in Stem Cells
Deniz Simsek
Stanford university, United States of America

10:00 - 10:15 “Molecular movie” of ribosome-elongation factor dynamics by high-resolution cryo-EM
Niels Fischer
MPI for Biophysical Chemistry, Germany

10:15 - 10:45 Coffee Break
ATC Foyer

10:45 - 11:00 Multi-angle view of EF-G-dependent translocation
Riccardo Belardinelli
MPI for Biophysical Chemistry, Germany

11:00 - 11:15 The activity of PTC inhibitors linezolid and chloramphenicol relies on the sequence context of the nascent peptide
James Marks III
The University of Illinois at Chicago, United States of America

11:15 - 11:30 Functional dynamics of the human ribosome determined by smFRET
Angelica Ferguson
Weill Cornell Medical College, United States of America
11:30 - 11:45  **Structure of a human translation termination complex reveals an inverted decoding geometry**
Roland Beckmann  
*LMU Munich, Germany*

11:45 - 12:00  **Structural basis of hypusine-induced protein synthesis by the eukaryotic ribosome**
Sergey Melnikov  (Presenter: Justine Mailliot)  
*IGBMC, France*

12:00 - 16:30  **Free time / Sightseeing**

16:30 - 19:00  **Session 5: Ribonucleoprotein complexes**
Chair: Markus Landthaler  
*ATC Auditorium*

16:30 - 17:00  **The mRNA-bound proteome of the early fly embryo**
Markus Landthaler  
*Max-Delbrück-Center for Molecular Medicine, Germany*

17:00 - 17:15  **Trailing membrane protein mRNAs on their way to the membrane in Escherichia coli**
Daniel Benhalevy  
*Weizmann Institute of Science, Israel*

17:15 - 17:30  **Deciphering of the protein-RNA recognition code: Cooperative RNA binding proteins and novel RNA binding motifs active during translational regulation**
Janosch Hennig  
*EMBL Heidelberg, Germany*

17:30 - 18:00  **Coffee Break and Meet the Speakers**
*ATC Foyer*

18:00 - 18:15  **Selective cap-dependent translation during cell stress is maintained by the RNA helicase A-CBP80/20 translation RNP**
Sarah Fritz  
*The Ohio State University and Antioch College, United States of America*
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>18:15 - 18:30</td>
<td><strong>Hrp48 interferes with elF3d to repress msl2 mRNA translation</strong></td>
</tr>
<tr>
<td></td>
<td>Emilia Szostak (Presenter: Marina García-Beyaert)</td>
</tr>
<tr>
<td></td>
<td><em>Centre for Genomic Regulation (CRG), Spain</em></td>
</tr>
<tr>
<td>18:30 - 18:45</td>
<td><strong>Catalytically active DDX6 mediates translational repression by 4E-T</strong></td>
</tr>
<tr>
<td></td>
<td>Nancy Standart</td>
</tr>
<tr>
<td></td>
<td><em>University of Cambridge, United Kingdom</em></td>
</tr>
<tr>
<td>18:45 - 19:00</td>
<td><strong>A splicing factor component SF3b4 plays a key role in selective assembly system for polyribosomes on the endoplasmic reticulum</strong></td>
</tr>
<tr>
<td></td>
<td>Kiyoko Ogawa-Goto</td>
</tr>
<tr>
<td></td>
<td><em>Nippi Research Institute of Biomatrix, Japan</em></td>
</tr>
<tr>
<td>19:00 - 20:30</td>
<td><strong>Dinner</strong></td>
</tr>
<tr>
<td></td>
<td>ATC Canteen</td>
</tr>
<tr>
<td>20:30 - 22:30</td>
<td><strong>Poster Session II</strong></td>
</tr>
<tr>
<td></td>
<td>ATC Helices</td>
</tr>
<tr>
<td>22:30 - 23:30</td>
<td><strong>Wine &amp; Cheese</strong></td>
</tr>
<tr>
<td></td>
<td>ATC Foyer</td>
</tr>
</tbody>
</table>
Saturday 12 September 2015

09:00 - 12:00  Session 6: Development, disease and metabolism
Chair: Maria Barna
ATC Auditorium

09:00 - 09:30  Heterogeneous ribosomes exist and selectively translate distinct subpools of mRNAs
Maria Barna
Stanford University, United States of America

09:30 - 09:45  Coordinate Regulation of Translation by a Conserved RNA Regulon
Karuna Sampath
University of Warwick, United Kingdom

09:45 - 10:00  The regulatory circuitry of spatiotemporal translational regulation of the genome during mammalian development
Kotaro Fujii
Stanford University, United States of America

10:00 - 10:15  Protein sequence depends on tissue expression and levels of expression
Ariel Bazzini
Yale University, United States of America

10:15 - 10:45  Coffee Break
ATC Foyer

10:45 - 11:00  Regulation of embryonic cell fates by the Bicaudal-C translational repressor
Michael Sheets
University of Wisconsin, United States of America

11:00 - 11:15  Direct translational control of macrophage inflammatory responses exerted by eobiotic neutrophil-derived alpha-defensins
Matthew Brook
University of Edinburgh, United Kingdom
11:15 - 11:30 Oncogenes cooperate to drive the translation of specific mRNA networks during distinct phases of tumor development
Craig Stumpf
University of California, San Francisco, United States of America

11:30 - 11:45 A non-canonical function of eIF4A inactivates TORC1 in response to amino acid starvation
Marie-Astrid Albert
German Cancer Research Center, Germany

11:45 - 12:00 Suppression of the oncogenic Mnk-eIF4E axis by C/EBPalpha
Götz Hartleben (Presenter: Cornelis Calkhoven)
European Research Institute for the Biology of Ageing, The Netherlands

12:00 - 13:30 Lunch
ATC Canteen

13:30 - 15:30 Poster Session III
ATC Helices

15:30 - 18:30 Session 7: Systems approaches
Chair: Thomas Preiss
ATC Auditorium

15:30 - 16:00 In vivo snapshots of eukaryotic translation initiation and termination captured by small ribosomal subunit profiling
Thomas Preiss
The Australian National University, Australia

16:00 - 16:15 The impact of the phosphomimetic eIF2aS/D on global translation, reinitiation and the integrated stress response is attenuated in N2a cells
Joseph Curran
University of Geneva Medical School, Switzerland
16:15 - 16:30 Specialized role for eIF3 in transcript-specific translational control
Amy Lee
University of California, Berkeley, United States of America

16:30 - 16:45 Computational analysis of high resolution Ribosome profiling detects thousands of high confidence ORFs and improves peptide identification
Lorenzo Calviello
MDC-BIMSB, Germany

16:45 - 17:15 Coffee Break
ATC Foyer

17:15 - 17:30 On the metabolic control of mRNA translation in transformed cells
Paulo Gameiro
Harvard Medical School, United States of America

17:30 - 17:45 Inhibitory Codon Pairs Affect Translation by distinct mechanisms
Elizabeth Grayhack
University of Rochester Medical School, United States of America

17:45 - 18:00 Codon optimality is a major determinate of mRNA stability
Jeffery Coller
Case Western Reserve University, United States of America

18:00 - 18:15 Platelets stabilize irreplaceable mRNAs by reducing post-termination ribosome recycling
Eric Mills
Johns Hopkins University School of Medicine, United States of America

18:15 - 18:30 Alternative polyadenylation induces posttranscriptional changes of gene expression in response to cellular stress
Ina Hollerer
EMBL Heidelberg, Germany
18:30 - 18:45  Closing remarks  
ATC Auditorium

18:45 - 19:15  Pre-dinner drinks  
ATC Foyer

19:15 - 01:00  Banquet Dinner and Party  
ATC Canteen and Foyer

Sunday 13 September 2015

Departure Day
Adami, Eleonora  
Ribosome profiling reveals translational regulation in complex disease  
66

Adio, Sarah  
Fluctuations between multiple EF-G-induced chimeric tRNA states during translocation on the ribosome  
67

Akulich, Ksenia  
Effects of low molecular weight drugs on translation of reporter mRNAs in cultured cells analyzed by FLERT technique  
Presenter: Terenin, Ilya M.  
68

Aoki, Hiromi  
The 5'UTRs of OsMac1, OsMac2, and OsMac3 strongly promote the translation of the downstream ORF  
69

Aoyama, Tomohiko  
Analyses of the molecular function of PABP interacting protein 1 (PAIP1) in translational activation  
70

Arend, Stefan  
Alternate conformation of a nascent chain in the ribosomal tunnel induces P-tRNA perturbation and inhibition of peptide bond formation  
71

Arkhipova, Valentina  
Eukaryotic translation initiation factor 2: obtaining and crystallization of the functionally important complexes  
72

Asencio, Claudio  
Systematic analysis of yeast glycolytic enzymes as moonlighting RNA-binding proteins  
73

Balcerak, Anna  
Association of HAX-1 with ribosomes and its involvement in co-translational decay  
74

Baranov, Pavel V.  
Exploring individual mRNA translation control with ribosome profiling data  
Presenter: Andreev, Dmitry E.  
75
Barbosa, Natália M.
*In vitro analysis of eIF5A physical interaction to the ribosome using fluorescence anisotropy*

Becker, Thomas
*Structural and functional analysis of native ribosome-Ski complexes*

Berry, Marla
*Competition between the Brain and Testes for Selenium Utilization: Insights into Gender Differences in Selenium Metabolism and Risk of Neurodevelopmental Disease*

Berry, Marla
*SMG1 knockdown and UPF1 overexpression significantly alter selenocysteine lyase mRNA levels*

Besic, Vinko
*Impact of Listeria monocytogenes infection on host cell translation*

Bettegazzi, Barbara
*A new eIF4B phosphorylation pattern links neuronal activity and protein translation*

Beznoskova, Petra
*New insights into ribosomal decoding: the base following the UGA stop codon determines selection of a specific near-cognate tRNA during programmed stop codon readthrough*

Bharudin, Izwan
*The role of mRNA 3’ tagging in ribosome clearance*

Bhasin, Hemal
*Molecular and functional characterization of ANGUSTIFOLIA protein in Arabidopsis*

Biffo, Stefano
*Overexpression of elf6 in Drosophila causes a developmental deficit*

Blanchard, Scott
*Functional Dynamics of the Human Ribosome*
<table>
<thead>
<tr>
<th>Author(s)</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blanchet, Sandra</td>
<td>Presenter: Namy, Olivier Insights into the mechanism of natural suppressor tRNAs selection during stop codon readthrough</td>
<td>87</td>
</tr>
<tr>
<td>Bock, Lars V.</td>
<td>Dynamic Contact Network between Ribosomal Subunits enables Rapid Large-Scale Rotation during Spontaneous Translocation</td>
<td>88</td>
</tr>
<tr>
<td>Boldrin, Paulo E. G.</td>
<td>The influence of eEF2 on eIF5A ribosome binding</td>
<td>89</td>
</tr>
<tr>
<td>Braun, Johannes</td>
<td>Mining for new cis regulatory elements in messenger RNAs</td>
<td>90</td>
</tr>
<tr>
<td>Bucio-Méndez, Alyeri</td>
<td>Analysis of the translation mechanism of a bicistronic mRNA in Drosophila melanogaster</td>
<td>91</td>
</tr>
<tr>
<td>Bugaud, Olivier</td>
<td>Translational non-sense suppression, a therapeutic strategy against cancer</td>
<td>92</td>
</tr>
<tr>
<td>Byeon, Gun Woo</td>
<td>Conserved novel IRES-like elements control the gene expression landscape of mammalian development</td>
<td>93</td>
</tr>
<tr>
<td>Caliskan, Neva</td>
<td>Shifty messages make sense: The mechanism of –1 programmed ribosome frameshifting</td>
<td>94</td>
</tr>
<tr>
<td>Castellano, Mar</td>
<td>Identification and study of a new translational enhancer in a cellular mRNA from Arabidopsis</td>
<td>95</td>
</tr>
<tr>
<td>Cattie, Douglas</td>
<td>Regulation of Stress Physiology and Longevity by the eIF3 Translation Initiation Complex in C. elegans</td>
<td>96</td>
</tr>
<tr>
<td>Chaiyasap, Pongsathorn</td>
<td>Whole Genome and Exome Sequencing of Monozygotic Twins with Trisomy 21, Discordant for a Congenital Heart Defect and Epilepsy</td>
<td>97</td>
</tr>
</tbody>
</table>
Chan, Sherwin  
Protein involved in the translational deregulation of a surface antigen of Pregnancy Associated Malaria parasites  
Chang, Chung-Te  
Coordination of consecutive steps in the 5'-to-3' mRNA decay pathway  
Chekulaeva, Marina  
Exploring roles of miRNAs in subcellular localization and translation of mRNAs  
Choi, Kyu Jin  
Gene expression profiling of rat intestinal epithelial IEC-6 cells exposed to radiation  
Cocozaki, Alexis  
Divergent Antibiotic Susceptibility Profiles from Mutations in the Bacterial Small Subunit rRNA  
Curran, Joseph A.  
The effect of heterogeneous transcription start sites (TSS) on the translatome: Implications for the cellular phenotype  
D’Agostino, Giuseppe  
Translation dysregulation in patient-derived iPSCs from neurodevelopmental disorders caused by symmetric CNVs  
Dahlgaard, Katja  
Characterisation of a novel dominant negative isoform of the intestinal master regulator CDX2 using CUG as start codon  
D’Amico, Silvia  
Regulation of translation elongation during ribosomal stress  
Deforges, Jules  
Two 40S binding sites within HIV-1 Gag Open Reading frame  
Dever, Thomas E.  
Amino Acid Substrates Impose eIF5A Requirement for Peptide Synthesis
Dmitriev, Sergey E.
Sliding of a 43S ribosomal complex to downstream AUG codons caused by a delay in eIF2-bound GTP hydrolysis

Doyle, Nicole J  
Presenter: Locker, Nicolas
Dissecting the reprogramming of host mRNA translation during microbial infections

Dwivedi, Anuj
Whole mount in situ hybridization of partial receptor like kinase gene in ovary and it’s down regulation using RNAi approach in Cenchrus ciliaris

Eisenberg, Amy
Translation elongation factor regulation in S. cerevisiae during meiosis

Ermolenko, Dmitri N.
Initiation factor 2 stabilizes the ribosome in a semi-rotated conformation

Fahraeus, Robin
Differentiating p53 activity via regulated folding of its own mRNA

Fatima, Mahar
Disruption In MiRNA Regulation Of Tripartite Containing Motif 32 Mediates HIV-1 Tat Induced Quiescence of Human Neural Precursor Cells

Filonava, Liudmila
The role of adenosine deaminases acting on tRNA in human disease

Forster, Anthony  
Presenter: Wang, Jinfan
Kinetics of ribosome-catalyzed polymerization using artificial aminoacyl-tRNA substrates clarifies inefficiencies and improvements

Francisco-Velilla, Rosario
Analysis of the composition of the Gemin5 interactome
Friedrich, Andreas
Ribosomal proteins as targets for therapy in Epidermolysis bullosa - Therapeutic ribosomes
119

Gallo, Simone
RACK1 binding to the ribosome regulates specific mRNAs translation
120

Garofalo, Raffaella
Cellular level of amino acid misincorporations defined by mass spectrometry
121

Garre, Elena
Analysis of the mRNP complexes of stress-responsive mRNAs
122

Gawron, Daria
The OMICS perspective on eIF1-dependent translational control
123

Gerovac, Milan
Ribosome Splitting in Yeast by ABCE1
124

Girardi, Tiziana
Protein metabolism changes imposed by the T-cell leukemia associated RPL10 R98S mutation
125

Grallert, Beata
Inhibition of translation independently of eIF2a phosphorylation
126

Grzela, Renata
mRNA with cap analogs bearing two phosphorothioate moieties within oligophosphate bridge shows enhanced stability and translational efficiency
127

Guimaraes, Joao
The role of ribosome specificity in regulating yeast’s replicative lifespan
128

Gunišová, Stanislava
Determinants of the reinitiation permissivity of short uORFs in yeast
129
Haneke, Katharina
Identification of kinases/phosphatases coupling global protein synthesis rates with cell proliferation and growth
130

Hanet, Aoife Julia
HELZ is a conserved RNA helicase that interacts with PABP and the CCR4-NOT complex
131

Harvey, Robert
Translational control and eIF2a phosphorylation in doxorubicin-induced toxicity
132

Herrmannová, Anna
Functional and biochemical characterization of human eIF3 in living cells
133

Heus, Hans A.
Smart tunable hydrogels for microRNA detection and delivery
134

Hinnebusch, Alan G.
Rli1/ABCE1 recycles terminating ribosomes and controls reinitiation in 3’UTRs in vivo
135

Holm, Mikael
A quantitative model of viomycin inhibition of EF-G catalyzed translocation in bacterial protein synthesis
136

Holtmann, Helmut
Functional characteristics of a translational silencing element in the mRNA of IkappaB-zeta
137

Hsieh, Andrew C.
Cell type-specific expression of 4EBP1 primes epithelial cancer susceptibility and PI3K pathway drug resistance
138

Hsu, Polly
Identifying Novel Peptide Hormones in Plant Root Development
139

Ieong, Ka-Weng
New insights into accuracy of tRNA selection in translation
140
Itoh, Yuzuru
Crystal structure of bacterial selenocysteine-specific elongation factor 141

Ivanov, Aleksandr
PABP stimulates translation termination in vitro 142

Ivanov, Pavel
Translational control by tRNA-derived fragments 143

Jagus, Rosemary
Origins and evolution of eIF4E family members in vertebrates 144

Jain, Vitul
Structure of prolyl-tRNA synthetase-halofuginone complex provides basis for development of novel drugs against malaria 145

Jansen, Myrte
Does RPS3 control translation termination and stop codon readthrough in cooperation with eIF3? 146

Jansova, Denisa
Phosphorylation of 4E-BP1 regulates translation in mammalian germ cells 147

Jemielity, Jacek
Synthesis and biochemical characterization of mRNA cap analogs for co-transcriptional and post-transcriptional mRNA labelling 148

Jones, Grant
Phylogeny and function: Identification of the prototypical eIF4E translation initiation factor in dinoflagellates 149

Jovanovic, Marko
Dynamic profiling of the protein life cycle in response to pathogens 150

Karakostis, Konstantinos
MDM2 interacts with the p53 mRNA in the invertebrate Ciona intestinalis 151
Karousis, Evangelos D.
**Mechanistic study of premature termination codon recognition in mammalian systems** 152

Katsara, Olga
**Deregulation of translation machinery in osteoarthritis cartilage** 153

Kemmerer, Katrin
**Alternative Splicing of the RNA Binding Protein HNRPDL** 154

Ketavarapu, Vijayasarathy
**Early recognition by SecA targets secretory protein near the ribosome exit tunnel** 155

Khokhar, Shazad
Presenter: Khokhar, Shazad; Danckwardt, Sven
**D-Insight - an integrated animal and cell model system to dissect the expression and secretion dynamics of a secretory protein real-time in vivo** 156

Kidmose, Rune
Presenter: Jenner, Lasse B.
**Structure of the 80S C.elegans ribosome** 157

Kinzy, Terri G.
**Expanded presence of the ribosome dependent ATPase Elongation Factor 3 beyond fungi** 158

Klaholz, Bruno P.
**Structure of the human 80S ribosome** 159

Knap, Primoz
**Early ribosome stalling and long non-coding RNA changes in host cells upon infection with Listeria monocytogenes** 160

Koch, Miriam
**Role of a ribosomal RNA phosphate oxygen during the EF-G-triggered GTP hydrolysis** 161

Kock Flygaard, Rasmus
**Regulation of the ribosome and protein synthesis by RNA interference** 162
Kolosov, Peter
Regulation of translation in neurons by uORFs in the 5'UTR of PKM 163

Koncicka, Marketa
Phosphorylation of 4E-BP1 regulates translation in mammalian germ cells 164

Koskela, Maryna
Characterization of GDNF opposite strand transcripts 165

Kowalska, Joanna
mRNA cap analogs modified with boranophosphate group: novel tools to influence cap-dependent processes 166

Kramer, Susanne
Novel insights into RNP granules by employing the trypanosome’s microtubule skeleton as a molecular sieve 167

Kubelka, Michal
Phosphorylation of 4E-BP1 regulates translation in mammalian germ cells 168

Kulalert, Warakorn
Genetic analysis of translation initiation components conferring sensitivity to phosphorylation of eIF2-alpha in C. elegans 169

Kumar, Arathy S.
Snail regulated miR-493 against IGF1R and its downstream molecules in head and neck cancer 170

Lecanda, Aaron
Analysis of uORFs in Stem Cells and Derived Neurons 171

Leppek, Kathrin
Mechanistic Characterization of 5'UTR RNA Elements that Confer Translational Specificity to Shape Vertebrate Embryonic Development 172

Lima, Ana C.
Presenter: Lopes, Alexandra
Translational dynamics of germ cell development 173
Lind, Christoffer
Start codon selection in eukaryotic initiation of translation 174

López, Ignacio
p53 control of gene expression via mRNA translation during Endoplasmic Reticulum stress 175

Luidalepp, Hannes
Identification and characterisation of sRNAs in dormant bacteria 176

Lukaszewicz, Maciej R.
Analysis of substrate specificity of Nudt12 nudix hydrolase towards dinucleotide analogs of 5’mRNA cap structure 177

Lukavsky, Peter J.
Structural basis of TDP-43 dimerization on UG-repeat RNA upstream of CFTR exon 9 178

Lyons, Shawn M.
Transcript specific regulation of translation by tiRNAs 179

Makarian, Joelle
The role of eIF3h in Cauliflower mosaic virus (CaMV) Pathogenesis 180

Malka-Mahieu, Hélène
eIF4F is a nexus of resistance to anti-BRAF and anti-MEK cancer therapies 181

Manfrini, Nicola
Unravelling the functions of FAM46C, an uncharacterized protein involved in multiple myeloma 182

Marin, Monica
Exploring regulatory effects of synonymous mutations in the biosynthesis of the estrogen receptor alpha in transfected human cells 183

Marler, Laura
New role for translation initiation factor eIF2β in promoting ribosomal scanning and accurate start codon selection in vivo 184
Masoud, Rula
Biochemical characterization and quantification of eIF4AI and eIF4AII functions using fluorescence tools 185

Masvidal Sanz, Laia
nanoCAGE and polysome profiling reveal 5'UTR features that define distinct mRNA subsets showing eIF4E-sensitive translation 186

Mata, Juan
From the translatome to the small proteome 187

Matassa, Danilo Swann
The heat shock protein TRAP1: a new player in protein synthesis 188

Mathe, Andrea
miRNAs control the expression of triple negative breast cancer specific genes 189

Medenbach, Jan
Sister of Sex Lethal – a novel translational repressor from Drosophila 190

Mengardi, Chloé
Let-7 miRNA stimulates translation driven by the Hepatitis C IRES 191

Meydan, Fatma Sezen
Programmed frameshifting generates a bacterial Cu-transporter and a Cu-chaperone from a single gene 192

Michel, Audrey M
RiboGalaxy: a platform for the alignment, analysis and visualization of ribo-seq data 193

Miller, W. Allen
A plant viral RNA that facilitates cap-independent translation in mammalian systems binds human eIF4E 194

Miluzio, Annarita
Expression and Activity of eIF6 trigger Malignant Pleural Mesothelioma growth, in vivo 195
Mohammad, Mahabub Pasha
RNA-immuno-precipitation (RIP) assay: A novel method to study the protein-RNA interactions in vivo applied to the analysis of the Translation Re-initiation mechanism of yeast GCN4

Moore, Kat
Regulation and function of the RNA-binding protein Csde1 in erythropoiesis

Mordstein, Christine
Investigating the consequences of GC content on gene expression in human cells

Niessing, Dierk
Roquin-dependent recognition of non-canonical hexa-loop structures in the 3’ UTR of Ox40

Nilges, Benedikt S.
Identification and characterization of peptides encoded by short ORFs in vertebrates

Nilsson, Ola B.  Presenter: Marino, Jacopo
Cotranslational protein folding inside the ribosome exit tunnel

Nizkorodova, Anna
TIAR proteins from Arabidopsis UBP1b and RBP47a are phosphorylated in wheat germ cell-free extract

Nizkorodova, Anna
5’-untranslated region of potato virus Y genomic RNA provides efficient mRNA translation in bacterial cells

Nourse, Jamie
Use of novel methodologies to investigate the systematic involvement of microRNAs in the higher level control of the plasmatic coagulation network

Novosylna, Oleksandra
A1 and A2 isoforms of mammalian translation elongation factor eEF1 differently interact with actin and regulatory proteins
O'Connor, Patrick  
Presenter: Andreev, Dmitry E.; O'Connor, Patrick; Baranov, Pavel V.  

RUST metafootprint analysis reveals substantial protocol dependency of footprint cDNA library composition  

O'Leary, Sean E  
A Dynamic Picture of Eukaryotic Translation Initiation  

Osipenko, Aleksandr  
Selective covalent labeling of small non-coding RNA duplexes using HEN1 methyltransferase  

Paolini, Nahuel  
Control of erythropoiesis by iron dependent expression of protein isoforms  

Park, Jinsung  
Overexpression of Caldesmon Is Associated With Tumor Progression in Patients with Primary Non-muscle Invasive Bladder Cancer  

Perez-Pepe, Marcelo  
Novel Stress Granule regulators identified in an RNAi screen in Drosophila  

Peter, Daniel  
Drosophila Mextli uses an unprecedented tripartite binding mode to form complexes with eIF4E that are insensitive to 4E-BP regulation  

Piñeiro, David  
Identifying novel RNA-protein interactions in the nucleolar stress response  

Polacek, Norbert  
Ribosome-associated ncRNAs (rancRNAs): An emerging class of translation regulators  

Ponnuswamy, Anand  
A Novel Mechanism of PERK Mediated Translational Regulation During Unfolded Protein Response
Popow, Johannes
**FASTKD2** is an RNA-binding protein required for biogenesis of the large mitochondrial ribosomal subunit 216

Prats, Anne-Catherine
**Heat shock-driven VEGF-D mRNA translation initiation promotes lymphatic dilatation and metastasis** 217

Preiss, Thomas
**Mitochondrial RNA-Binding Proteins: Links to Intermediary Metabolism and Cardiac Disease** 218

Pringle, Eric
**Translation of Kaposi’s Sarcoma-associated Herpesvirus (KSHV) lytic gene products are resistant to mTORC1 inhibition** 219

Raimondeau, Etienne
**The efficiency of translation termination is fine-tuned by NMD factors** 220

Raza, Farheen
**Targeting elf4A1 and elf4A2 mRNA helicases in pulmonary adenocarcinoma** 221

Reis, Christian
**PAM2 motifs are involved in the interaction between elf4E and PABP homologues during translation initiation in Leishmania** 222

Reitter, Sonja
**Regulation of global mRNA translation in anti-inflammatory macrophages** 223

Remon, Kerry
**DEF6 function in the control of mRNA translation** 224

Reuter, Kerstin
**Predicting non-canonical translational starts using ribosome profiling data** 225

Ricciardi, Sara
**Quantitative profiling of initiating ribosomes in primary human CD4+ Th1 cells** 226
Translational control of the human erythropoietin via an upstream open reading frame in cardiac tissue

Evidence for a coupling between mRNA export and translation initiation through CTIF binding to DDX19B

Modulation of host translation machinery by Dengue virus

A novel role of Protein Phosphatase 2A in the regulation of protein synthesis during oxidative stress

Evidence for the role of n-terminal domain of EIF5 in modulating the binding of ternary complex (initiator methionyl tRNA bound to EIF2-GTP) in vivo

Identifying Conserved Hotspots of Inflammatory Stimulus-induced Dynamics in Translation Speed within Ribosomal Exit Tunnel at a Single Residue Resolution

Post-transcriptional regulation precludes aberrant cytokine production in memory T cells

Cdc123, a cell cycle regulator needed for eIF2 assembly, is an ATP-grasp protein with unique features

Identification of the proteome bound to a defined RNA

The proline-rich antimicrobial peptide Onc112 inhibits translation by blocking and destabilizing the initiation complex
Seip, Britta
Exploring the primary sequence determinants for macrolide-induced translational arrest 237

Sgromo, Annamaria
Drosophila Roquin directly interacts with the CCR4-NOT complex 238

Shankar, Vaishnavi
The role of rRNA expansion segments in protein synthesis 239

Shanmuganathan, Vivekanandan
Ribosome Profiling of Maturing Dendritic Cells 240

Sharma, Heena
Real-time spontaneous rotation of the ribosomal subunits 241

Sharma, Puneet
The role of tRNA modification in familial dysautonomia 242

Shimada, Hiroaki
Evaluation of the novel translational enhancer in plant expression systems 243

Silva, Richard C.
Potential mechanisms underlying the sensing of the actin cytoskeleton integrity by the eIF2 alpha kinase GCN2 in mammalian cells 244

Smith, Ewan M.
Identifying RNA-binding protein changes upon mTORC1/2 inactivation using interactome capture 245

Srour, Ola
4E-binding proteins (4E-BPs) in plants 246

Stoneley, Mark
Identifying novel UV stress-dependent cytoplasmic post-transcriptional mechanisms 247
<table>
<thead>
<tr>
<th>Title</th>
<th>Presenter(s)</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phosphorylation of 4E-BP1 regulates translation in mammalian germ</td>
<td>Susor, Andrej; Jansova, Denisa; Tetkova, Anna; Koncicka, Marketa</td>
<td>248</td>
</tr>
<tr>
<td>cells</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Eukaryotic ribosomal termination complexes are stabilized by</td>
<td>Susorov, Denis</td>
<td>249</td>
</tr>
<tr>
<td>deacylated tRNA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Regulation of mRNA translation during mitosis</td>
<td>Tanenbaum, Marvin</td>
<td>250</td>
</tr>
<tr>
<td>Systematic screening to identify potential 3' end processing factors</td>
<td>Tattikota, Surendra</td>
<td>251</td>
</tr>
<tr>
<td>involved in alternative cleavage and polyadenylation (APA)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>clipR: an R package for the identification of RNA interactions from</td>
<td>Tebaldi, Toma</td>
<td>252</td>
</tr>
<tr>
<td>NGS data</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phosphorylation of 4E-BP1 regulates translation in mammalian germ</td>
<td>Tetkova, Anna</td>
<td>253</td>
</tr>
<tr>
<td>cells</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Novel pathway connecting rapid upstart of growth and nutrient</td>
<td>Thevelein, Johan</td>
<td>254</td>
</tr>
<tr>
<td>availability in Saccharomyces cerevisiae</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Asc1/RACK1 promotes the function of the closed-loop in translation</td>
<td>Thompson, Mary K.</td>
<td>255</td>
</tr>
<tr>
<td>initiation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Innovative Cell-free Systems based on CHO Cell Lysates: Future</td>
<td>Thoring, Lena</td>
<td>256</td>
</tr>
<tr>
<td>Perspectives for the Production of Toxic and “Difficult to Express”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Proteins</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perturbations in translational control during Adult Neural Stem Cells</td>
<td>Tottone, Luca; Martella, Marianna</td>
<td>257</td>
</tr>
<tr>
<td>and Medulloblastoma Cancer Stem Cells differentiation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Tzani, Ioanna
Translation control of PTEN isoforms by its 5'leader 258

Ucci, Amanda P.
Translational profile of a Saccharomyces cerevisiae mutant deficient in hypusine modification of elf5A 259

Vaiana, Andrea C.
Target density biased MD simulations reveal pathways between ribosomal translocation intermediates 260

Van Damme, Petra
The co-translational acting human N-terminal acetyltransferase Naa30 is critically involved in maintaining mitochondrial and Golgi integrity 261

van Hoef, Vincent
Impact of P53 reactivation on mRNA translation 262

Varshney, Umesh  
Presenter: Shetty, Sunil
The highly conserved presence of 3GC base pairs in the anticodon stem of tRNAfMet facilitates its transition from 30S pre-initiation complex to 70S elongation competent complex in Escherichia coli 263

Vlcková, Vladislava
Characterization of a molecular mechanism underlying translation reinitiation of ATF4 and ATF5 transcriptional activators in mammals 264

von der Haar, Tobias
Synonymous codons, ribosome speed, and control of translation initiation by translation elongation 265

Wagner, Susan
“Knockin’ on elf3’s door” – siRNA analysis of individual subunits of human elf3 266

Waldron, Joseph
Investigating a role of elf4A1 for the translation of mRNAs with complementary "sticky" regions in their 5’UTRs 267
Walters, Beth
Ribosomal protein S25 plays a role downstream of ribosome recruitment during non-canonical initiation

Wang, Julian
Translational Responses to DNA Damage in Non-Transformed Cell Lines

Wang, Yinuo J.
Regulation of ribosome function by stress-induced 40S proteins Tma10 and Stf2

Weigand, Julia E.
Hypoxia reduces MAX expression in endothelial cells by unproductive splicing

Wieden, Hans-Joachim
Massive functional mapping of a non-canonical bacterial translation initiation element by saturation mutagenesis, phenotypic sorting and high-throughput sequencing

Wilson, Daniel N.
Cryo-EM structures of the orthosomycin antibiotics evernimicin and avilamycin in complex with the ribosome

Wilson, Daniel N. Presenter: Arenz, Stefan
Cryo-EM structure of the tetracycline resistance protein TetM in complex with a translating ribosome at 3.9-Å resolution

Wolczyk, Magdalena
SmartFlare RNA probes detect only translationally active but not stored in stress granules BRCA1 mRNA in CML cells.

Woo, Anthony
Translational fidelity and cell individuality

Wyss, Leander
An intergenic non-coding RNA targets and regulates the ribosome in H. volcanii

Yamashita, Yui
Sucrose-induced ribosome stalling of Arabidopsis bZIP11 uORF
Yeramala, Lahari
Presenter: Yeramala, Lahari; Eliseev, Boris

Structural Characterization of Poly(A)-Binding Protein in Translation Termination

Zaini, Mohamad Amr
Converting C/EBPbeta-translation into an initiation/re-initiation reporter system to search for calorie restriction mimetics

Zeman, Jakub
Eukaryotic translation initiation factor 3 undergoes dramatic structural changes prior to its binding to the 40S ribosomal subunit

Zemella, Anne
Membrane protein engineering using non-canonical amino acids in eukaryotic cell-free systems

Zhigailov, Andrey
Presenter: Zhigailov, Andrey; Iskakov, Bulat
Translation initiation at non-AUG codon in the 5’ untranslated region of potato virus Y genomic RNA may proceed without participation of Met-tRNAi

Zielonka, Elisabeth M.
The autophagy receptor p62 as novel RBP in the genotoxic stress response

Zinshteyn, Boris
Conserved eIF4G binding elements in transcript leaders confer condition-specific translational enhancement

Zydowicz, Paulina
Length of the 5’ terminal region and structural context of the AUG1 start codon influence the ribosomal scanning and translation initiation of p53 mRNA