



## Venue

University Medical Center Groningen – Blauwe Zaal  
 Hanzeplein 1, 9713 GZ Groningen

# PROGRAMME

## Sunday, October 8

4:00-7:00 pm	Registration
<b>6:00 pm</b>	<b>Reception</b>
6:45 pm	Opening remarks - Welcome note
7:10 pm	Keynote Lecture by <b>Andrew Dillin</b> , Department of Molecular and Cell Biology at Berkeley <i>The Communication of Mitochondrial Protectotoxic Stress (The Mitokine)</i>
	Session 1. <b>Telomeres</b> Chair: <b>Michael Chang</b>
8:00-8:25 pm	<u>Speakers</u> <b>Joachim Lingner</b> , École Polytechnique Fédérale de Lausanne <i>Telomeric chromatin analysis provides insights into damage protection</i>
8:25-8:50 pm	<b>Jan Karlseder</b> , Salk Institute for Biological Studies <i>Regulation of DNA Repair pathway choice in S/G2 by the NHEJ inhibitor CYREN</i>
8:50-9:10 pm	<b>Miguel Godinho Ferreira</b> , Institute for Research on Cancer and Aging in Nice (IRCAN) <i>Non-cell autonomous effects of telomere shortening in cancer and ageing</i>
9:10-9:30 pm	<b>Peter Baumann</b> , HHMI and Stowers Institute, Kansas University Medical Center <i>Telomerase RNA biogenesis – it takes a lot to make enough</i>

## Monday, October 9

### Session 2. DNA repair and genome instability

Chair: **Katrin Paeschke**

Speakers

- 9:00-9:25 am **Jan Hoeijmakers**, Erasmus MC Department of Molecular Genetics  
*Keeping your genome intact protects you from aging and neurodegeneration*
- 9:25-9:50 am **Penny Jeggo**, School of Life Sciences at the University of Sussex  
*Maintaining Genomic Integrity in the face of DNA double strand breaks*
- 9:50-10:10 am **Anne Cornelis Meinema**, ETH Zürich  
*DNA circles cause nuclear pore complex rearrangements during yeast aging*
- 10:10-10:30 am **Jacqueline Jacobs**, The Netherlands Cancer Institute  
*Control of DNA repair pathway choice at telomeres and DNA double strand breaks*
- 10:30-10:50 am **Elsa Logarinho**, IBMC-Instituto de Biologia Molecular e Celular, i3S, Porto University  
*Molecular basis of mitotic decline during human aging*

**10:50 am Coffee break**

### Session 3. Mitochondria and apoptosis

Chair: **Peter Lansdorp**

Speakers

- 11:20-11:45 am **Liza Pon**, Columbia University Medical Center  
*Reciprocal interactions between mitochondrial DNA and lifespan control in budding yeast*
- 11:45-12:05 pm **Marte Molenaars**, Academic Medical Center Amsterdam  
*The Interplay between Mitochondrial Function and Protein Translation in Longevity*
- 12:05-12:25 pm **Vincenzo Sorrentino**, École Polytechnique Fédérale de Lausanne  
*Enhancing mitochondrial proteostasis reduces amyloid- $\beta$  peptide proteotoxicity*

**12:30 am Lunch**

### Session 4. Nutrient Sensing

Chair: **Ody Sibon**

Speakers

- 2:00-2:25 pm **Jens Bruening**, Max Planck Institute for Metabolism Research  
*Neuronal circuits in control of metabolism*
- 2:25-2:50 pm **Brian Kennedy**, The Buck Institute for Research on Aging  
*Sex Differences and Aging in the mTOR Pathway*
- 2:50-3:10 pm **Christine Müller**, European Research Institute for the Biology of Ageing, UMCG  
*Reduced expression of C/EBP $\beta$ -LIP extends health- and lifespan in mice*
- 3:10-3:30 pm **Peter Tessarz**, Max Planck Institute for Biology of Ageing, Cologne  
*Integration of metabolic and epigenetic regulation of stem cell fates in health and ageing*

3:45-5:45 pm **Poster Session I; coffee and tea will be served**

**6:00-7:30 pm Dinner**

### Session 5. Autophagy and Immunity

Chair: **Fulvio Reggiori**

Speakers

- 7:30-7:55 pm **David Rubinsztein**, Cambridge Institute for Medical Research  
*Autophagy and Neurodegeneration*
- 7:55-8:20 pm **Katja Simon**, Oxford University  
*Autophagy and immune aging*
- 8:20-8:45 pm **Andre Nussenzweig**, Center for Cancer Research, NIH  
*Genome Organization Drives Chromosome Fragility*
- 8:45-9:10 pm **Manolis Pasparakis**, Institute for Genetics at the University of Cologne  
*Necroptosis in tissue homeostasis and inflammation*

## Tuesday, October 10

Tuesday, October 10	
Session 6. <b>(Epi)genetics and ageing</b> Chair: <b>Jan Hoeijmakers</b>	
	<u>Speakers</u>
9:00-9:25 am	<b>Edwin Cuppen</b> , Center for Molecular Medicine at the UMC Utrecht <i>Tissue-specific mutation accumulation in human adult stem cells during life</i>
9:25-9:50 am	<b>Anne Brunet</b> , Paul F. Glenn Laboratories for the Biology of Aging at Stanford University <i>Understanding and modeling aging</i>
9:50-10:10 am	<b>Mario Baumgart</b> , Leibniz Institute on Aging - FLI <i>Longitudinal analysis of gene expression in the short-lived killifish <i>Nothobranchius furzeri</i> reveals widespread pleiotropic antagonistic actions</i>
10:10-10:30 am	<b>Bart Eggen</b> , University Medical Center Groningen <i>Transcriptomic analysis of purified human cortical microglia reveals age-associated changes</i>
10:30-10:50 am	<b>Markus Schosserer</b> , University of Natural Resources and Life Sciences, Vienna <i>Two distinct ribosomal RNA base methylations modulate healthy lifespan</i>
<b>10:55 am Coffee break</b>	
Session 7A. <b>Protein homeostasis</b> Chair: <b>Ellen Nollen</b>	
	<u>Speakers</u>
11:25-11:50 am	<b>Mark S. Hipp</b> , Max Planck Institute of Biochemistry <i>Proteostasis impairment in protein misfolding and aggregation diseases</i>
11:50-12:10 pm	<b>Alessandro Cellerino</b> , Scuola Normale Superiore <i>Proteomic analysis of brain aging reveals reduction of protein/transcript correlation, loss of stoichiometry in multiple protein complexes and changes in protein thermal stability</i>
12:10-12:30 pm	<b>Tobias Dansen</b> , UMC Utrecht <i>Proteome-wide Changes in Protein Turnover Rates in <i>C. elegans</i> Models of Longevity and Age-Related Disease</i>
<b>12:30 pm Lunch</b>	
Session 7B. <b>Protein homeostasis</b> Chair: <b>Ellen Nollen</b>	
	<u>Speakers</u>
2:00-2:30 pm	<b>Giovanna Mallucci</b> , Department of Clinical Neurosciences, University of Cambridge <i>Manipulating the Unfolded Protein Response for treatment of neurodegeneration</i>
2:30-3:00 pm	<b>Collin Ewald</b> , ETH Zurich <i>Preferential translation of ATF-5 mediates <i>Caenorhabditis elegans</i> lifespan extension from reduced protein synthesis</i>
Session 8. <b>Stem cells</b> Chair: <b>Gerald de Haan</b>	
	<u>Speakers</u>
3:00-3:30 pm	<b>Thomas Rando</b> , Glenn Center for the Biology of Ageing at Stanford University <i>Epigenetics Mechanism of stem cell aging and rejuvenation</i>
3:30-4:00 pm	<b>Allison Bardin</b> , Genetics and Developmental Biology Center at Institut Curie <i>Modes of genome alteration of adult stem cell during aging</i>
4:00- 4:20 pm	<b>Allesandro Ori</b> , Leibniz Institute on Aging – Fritz Lipmann Institute (FLI) <i>Age and diet affect the intestinal crypt proteome</i>
4:30-6:30 pm	<b>Poster Session II; coffee and tea will be served</b>
<b>7:00 pm Reception and dinner at the Groningen Museum</b>	

## Wednesday, October 11

Session 9. **Cellular senescence**

Chair: **Marco Demaria**

Speakers

10:00-10:30 am

**Manuel Serrano**, Centro Nacional de Investigaciones Oncológicas  
*Integrating cellular senescence and reprogramming*

10:30-11:00 am

**Sheila A. Stewart**, Department of Cell Biology and Physiology at the Washington University of St. Louis  
*Age-related changes in the tumor microenvironment drive tumorigenesis*

11:00-11:30 am

**Peter de Keizer**, Department of Genetics, Erasmus MC Rotterdam  
*Targeted Apoptosis of Senescent Cells Restores Tissue Homeostasis in Response to Chemotoxicity and Aging*

11:50-12:10 pm

**Peter Bruno**, Harvard Medical School  
*Functional genetic characterization of senescence induction*

12:10-12:30 pm

**Sélène Glück**, École Polytechnique Fédérale de Lausanne  
*Innate immune sensing of cytosolic chromatin fragments through cGAS promotes senescence*

**12:30 pm**

**Lunch and Departure**