

Life Science Area of Advance Initiative Seminar & Molecular Frontiers Symposium

DAY 1

Date: Tuesday August 30th, 2016
Topic: **HEALTHY AGEING: FROM MICROORGANISMS TO HUMANS**
Chairs: Prof Bengt Nordén and Prof Dina Petranovic
Venue: RunAn Conference Hall, Chalmers University of Technology,
Chalmersplatsen 1, SE-412 58 Göteborg, Sweden

- 08:45-09:00 **Welcome notes**
Prof Bengt Nordén, Founder and Chair of the Molecular Frontiers Foundation
Prof Ivan Mijakovic, Director of the Life Science Engineering Chalmers Area of Advance
Jan-Olof Jacke, CEO AstraZeneca Sweden
- 09:00-09:45 **Prof Thomas Bosch**, Professor of Zoology and Director of the Zoological Institute at Kiel University, University of Kiel, Germany.
Ageing from an immortal point of view: Lessons from non-senescent Hydra
- 09:45-10:30 **Prof Ellen Nollen**, European Institute for the Biology of Aging, University Medical Center Groningen, The Netherlands.
Protein damage control in aging and age-related diseases: lessons from worms
- 10:30-11:00 **Coffee break**
- 11:00-11:45 **Prof. Thomas Nyström**, Professor of Microbiology, Inst. of Biomedicine, Sahlgrenska Academy, Gothenburg, Sweden.
Aging and rejuvenation at the cellular level
- 11:45-12:30 Nobel Laureate **Prof. Tomas Lindahl**, Emeritus Professor the Francis Crick Institute, London, UK.
DNA Instability and the Role of TREX1
- 12:30-13:30 **Lunch break**
- 13:30-14:15 **Prof. Linda Partridge**, Professor of Biology of Ageing, Max Planck Institute for Biology of Ageing, Cologne, Germany and Institute of Healthy Ageing, UCL, UK.
Manipulating nutrient-sensing signalling to improve health during ageing
- 14:15-15:00 **Discussion** (questions for the speakers from Day 1, moderated by **Dr Per Thoren** and **Msc Åsa Rensfeldt**)
- 15:00-15:30 *Presentation of Molecular Frontiers* by **Prof Dina Petranovic**, **Dr Per Thoren** and **Msc Åsa Rensfeldt**
- 15:30-17:00 Reception and mingle **for all registered participants**
- 16:30-21:00 Workshop, dinner and evening program for **high school students** with Per Thoren, Åsa Rensfeldt and SBE Student Chapter Chalmers
- 18:00-22:00 *Dinner for speakers, chairs and selected guests (by invitation only)*

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DAY 2

Date: Wednesday August 31st, 2016
Topic: **HEALTHY AGEING: FROM MICROORGANISMS TO HUMANS**
Chairs: Prof Bengt Norden and Prof Dina Petranovic
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- 09:00-09:45 **Dr. Leroy Hood**, President, Institute for Systems Biology, Seattle, USA
Transforming Healthcare through Scientific Wellness
- 09:45-10:30 **Prof. Valter Longo**, Professor of Biogerontology, Director of the USC Longevity Institute, University of Southern California, Los Angeles USA, and IFOM, Milan, Italy.
Nutrition-dependent regulation of protection and regeneration: from yeast to humans
- 10:30-11:00 **Coffee break**
- 11:00-11:45 **Prof. Eline Slagboom**, Head of Molecular Epidemiology, Leiden University Medical Center, The Netherlands.
Healthy ageing elderly: on nature and nurture
- 11:45-12:30 **Prof. Frank Madeo**, Institute of Molecular Biosciences, NAWI Graz, University of Graz, BioTechMed-Graz, Austria.
From dying yeasts to longevity drugs
- 12:30-13:30 **Lunch break**
- 13:30-14:15 **Discussion** (questions for the speakers from Day 2, moderated by **Dr Per Thoren** and **Msc Åsa Rensfeldt**)
- 14:15-15:30 **Panel Discussion** “What science can do: are we entering a golden age for drug discovery” with all speakers and **Menelas N Pangalos**, PhD, FMedSci, Executive Vice President of AstraZeneca’s Innovative Medicines & Early Development Biotech Unit:
- 15:30 Closure: **Prof. Bengt Nordén**, Founder and Chair of Molecular Frontiers Foundation, Sweden