IUBMB Focused Meeting on «Molecular aspects of aging & longevity»

16-19 October 2017
National Hellenic Research Foundation
Athens, Greece

FINAL PROGRAM
Scientific program

**October 16th, 2017**

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<td>08.00 – 09.15</td>
<td>Registration to the Meeting</td>
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<td>09.15 – 09.30</td>
<td>Welcome address, Stathis Gonos, Chairman</td>
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<tr>
<td><strong>09.30 – 11.00</strong></td>
<td>Session-1: “Human ageing and diseases”</td>
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<tr>
<td></td>
<td>Chair-persons: Barbara Demeneix &amp; Vassilis Gorgoulis,</td>
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<td></td>
<td><em>Barbara Demeneix, Paris, France,</em> “Neural stem cell decisions, thyroid hormone and ageing”</td>
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<td></td>
<td><em>Christos Zouboulis, Berlin, Germany,</em> “Modern methods of gender-independent determination of age”</td>
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<td><em>Vassilis Gorgoulis, Athens, Greece,</em> “Mutation signatures reveal the role of RAD52 recombinase in fueling genome instability and escape from senescence”</td>
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<tr>
<td>11.00 – 11.30</td>
<td>Coffee break</td>
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<td>11.30 – 12.15</td>
<td><strong>Plenary Lecture-1</strong></td>
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<td>Chair-person: Nektarios Tavernarakis</td>
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<td></td>
<td><em>John Sedivy, Providence, USA,</em> “Epigenetic Changes and Somatic Retrotransposition in Cellular Senescence and Aging”</td>
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<td>12.15 – 13.30</td>
<td>Lunch break</td>
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<td>13.30 – 15.00</td>
<td>Poster session 1</td>
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Session 2: “Protein damage and turnover”

Chair-persons: Bertrand Friguet & Niki Chondrogianni

Nektarios Tavernarakis, Herakleion, Greece, “Mitophagy and mitochondrial biogenesis in neurodegeneration and ageing”


Nicholas Hannah, Sydney, Australia, “A tau-like protein regulates neuronal aging and the response to oxidative stress in C. elegans”

Ram Nagaraj, Aurora, USA, “Molecular mechanisms of aging in human lens: Acylation of proteins”

Coffee break

Session 3: “Epigenetics and macromolecular damage”

Chair-persons: Stathis Gonos & Patty Opresko

Peter Adams, Glasgow, UK, “The dynamic epigenome - a challenge to healthy aging”

Stathis Gonos, Athens, Greece, “Proteasome activation as a novel anti-aging strategy”

Olivier Coux, Montpellier, France, “Regulating the regulator: PIP30, a novel cofactor of the nuclear activator of the proteasome, PA28gamma” (Supported by COST ACTION BM1307 PROTEOSTASIS)

Patty Opresko, Pittsburgh, USA, “Investigating How Oxidative DNA Damage Alters Telomere Maintenance”

Welcome reception (NHRF foyer)
October 17th, 2017

09.00 – 11.00  Session 4: “Biomarkers of senescence”

Chair-persons: Alexander Burkle & Pidder Jansen-Duerr

Alexander Burkle, Constance, Germany, “Biomarkers of human ageing -- the EU FP7 MARK-AGE project and beyond”

Giovanni Grillari, Vienna, Austria, “miRNAs as members of the senescence associated secretory phenotype influence cell fate decision”

Keetae Kim, Daegu, S. Korea, “Decreasing mir-210 expression in hypothalamus enhances energy metabolism by increasing autophagy and mitochondrial functions and improves lifespan of aged mice”

Pidder Jansen-Duerr, Innsbruck, Austria, “Oxaloacetate decarboxylase FAHD1 – a novel regulator of mitochondrial function and cellular senescence”

11.00 – 11.30  Coffee break

11.30 - 12.15  Plenary Lecture 2

Chair-person: Angelo Azzi

David Sinclair, Boston, USA, “Reversal of vascular aging by small molecules that raise NAD”

12.15 – 13.30  Lunch break & “Mech Ageing Devel” Editorial Board Meeting

13.30 – 15.00  Poster session 2

15.00 – 15.30  Coffee break

15.30 – 17.30  Session 5: “MetAGEn & proteolysis”

Chair-persons: Martin Denzel & Tilman Grune

Martin Denzel, Cologne, Germany, “The hexosamine pathway modulates protein quality control in mammals”

Louis Lapierre, Providence, USA, “Coordinating lipid storage with lysosomal lipolysis enhances longevity”

Hildegard Mack, Innsbruck, Austria, “Regulation of Caenorhabditis elegans lifespan by MBK-1/DYRK1A”

Tilman Grune, Berlin, Germany, “Role of Proteostasis in Aging and Senescence”
October 18th, 2017

09.00 – 11.00  
**Session 6:** “Immunosenescence, age-related diseases & therapies”

*Chair-persons: Claudio Franceschi & Parmjit Jat*

*Graham Pawelec, Tubingen, Germany,* “Immune Parameters Associated with Mortality in the Elderly are Context-Dependent: Lessons from Sweden, Holland and Belgium”

*Irene Maeve Rea, Belfast, UK,* “GeHA Nonagenarian Siblings tell about Living Long and Ageing Well: Life-style factors and Epigenetics?”

*Valérie Haydont, Paris, France,* “New insights on skin fibroblast evolution during ageing”

*Maria De Luca, Birmingham, USA,* “A Drosophila model to study the relationship between angiotensin-converting enzyme inhibitor (ACEi) therapy, mitochondrial bioenergetics, and aging”

11.00 – 11.30  
**Coffee break**

11.30 - 12.15  
**Plenary Lecture 3**

*Chair-person: Graham Pawelec*

*Claudio Franceschi, Bologna, Italy,* “A systemic -omic approach to aging and inflammaging”

12.15 – 13.30  
**Lunch break**

13.30 – 14.30  
**Session 7:** “EuroCellNet” *(Organized in collaboration with the COST Action CA 15214 "An integrative action for multidisciplinary studies on cellular structural networks")*

*Chair-persons: Giovanni Grillari & Irene Maeve Rea*

*Aleksandra Mladenovic & Milena Jovic, Belgrade, Serbia,* “Protective effect of omega-3 polyunsaturated fatty acid and 18α-glycyrrhetinic acid in 5xFAD animal model of Alzheimer’s disease”

*Milena Georgieva, Sofia, Bulgaria,* “An intricate interaction between linker histones and chromatin remodelling complexes maintain genome stability, directs cellular aging and retains longevity”

*Leire Moreno-Cugnon & Laura Yndriago, San Sebastian, Spain,* “Impact of SOX2 haploinsufficiency in longevity and stem cell activity with ageing”
Coffee break

Session 8: “Signaling in human ageing and senescence”

Chair-persons: Kelvin Davies & Dimitris Kletsas

Kelvin Davies, Los Angeles, USA, “Age-dependent abrogation of proteostasis may be due to declining adaptive homeostasis”

Parmjit Jat, London, UK, “Dissecting the molecular basis and signalling pathways underlying cellular senescence: Investigating the role of transcription factors”

Karl Riabowol, Calgary, Canada, “Epigenetic regulation of the RB tumor suppressor by ING1a”

Dimitris Kletsas, Athens, Greece, “Senescent human stromal fibroblasts after exposure to ionizing radiation have an altered proteoglycan expression facilitating tumour progression”

Liset Rietman, Bilthoven, The Netherlands, “Biomarker trajectories before the onset of cognitive frailty in the Doetinchem Cohort Study”

Meeting Dinner (“Aigli Zappeion” restaurant)

October 19th, 2017  Joint meeting with COST ACTION

Session 9a: “Geroprotectors: the road to clinical translation”

Chair-persons: Ulrike Trendelenburg and Ronald van Os

Ilaria Bellantuono, Sheffield, UK, “Geroprotectors, the MouseAGE experience”

Sebastian Groenke, Cologne, Germany, “Nutrient sensing networks and healthy ageing: dissecting mechanism”

Angelo Azzi, Boston, USA, “Natural Antioxidants and Aging”

Dudley Lamming, Wisconsin, USA, “Reduction of specific dietary macronutrients promotes healthspan and lifespan”

Coffee break
11.30 - 12.15  **Plenary lecture 4**

*Chair-person: Ilaria Bellantuono*

*Jan Hoeijmakers, Rotterdam, The Netherlands,* “DNA damage: Impact on aging, neurodegeneration and the effect of nutritional interventions”

12.15 - 13.30  **Lunch break**

13.30 – 14.30  **Session 9b: “Geroprotectors, novel agents”**

*Chair-persons: Paul Potter and Roos Vandenbroucke*

*Peter de Keizer, Rotterdam, The Netherlands,* “Targeting senescence to restore tissue homeostasis and rejuvenation”

*Michaela Kneissel, Basel, Switzerland,* “Targeting musculoskeletal diseases and injuries to restore mobility and independence in disease and old age”

14.30 - 15.15  **Plenary lecture 5**

*Chair-person: Jose Trejo*

*Judy Campisi, Berkeley, USA,* “Aging and the double edged sword of cellular senescence”

15.15 – 15.45  **Coffee break**

15.45 – 16.30  **Session 10: “New approaches to preclinical testing of interventions”**

*Chair-person: Ralph Mueller*

*Michael Hagn, Munich, Germany,* “Infrafrontier services for the ageing community”

*Marco Viceconti, Sheffield, UK,* “From bed to bench: how *in silico* medicine can help refining animal models”

16.30 – 17.30  **Wine reception and poster presentations from the MouseAGE network**

20.30 –  **MouseAGE Dinner (“Karavitis” old tavern; for MouseAGE members only)**
GENERAL INFORMATION

Meeting Dates:
16-19 October, 2017

Meeting Venue:
National Hellenic Research Foundation
48 Vassileos Constantinou Ave.
116 35 Athens
T. +30.210.72.73.516 / F. +30.210.72.46.618
Web: www.eie.gr

Meeting Secretariat Operating Hours

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<th>Day</th>
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<tr>
<td>Monday, 16 October</td>
<td>08.00-19.30</td>
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<tr>
<td>Tuesday, 17 October</td>
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<td>Wednesday, 18 October</td>
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<td>Thursday, 19 October</td>
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Registration Fees

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<th>Registration Category</th>
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<tr>
<td>IUBMB regular participants</td>
<td>€ 500,00</td>
</tr>
<tr>
<td>Students</td>
<td>€ 300,00</td>
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<tr>
<td>Accompanying person</td>
<td>€ 200,00</td>
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* Participants who will register as “students” need to send to the Congress Secretariat a copy of the student card, in order for the registration to be confirmed. The original one must also be presented on site at the Congress Secretariat.

Registration Fee includes:
- Attendance of the Scientific Program
- Participation to the Opening Ceremony, Welcome Reception and Meeting Dinner
- Congress material
- Certificate of attendance
- Light Lunches and Coffee Breaks

Accompanying Person Registration Fee includes:
Participation to the Opening Ceremony, Welcome Reception and Meeting Dinner

Meeting material
Badges and Congress material will be provided to all registered participants by the Meeting Secretariat. Congress badges are mandatory for admission and access to the meeting hall and exhibition, as well as all Meeting functions.
Certificate of Attendance
A certificate of attendance will be available to all registered participants.

Speakers Preview Desk
A Speakers Preview Desk is located at the foyer of the venue and next to the Meeting Secretariat.

Wi-Fi
Wireless internet access is available free of charge within the Congress venue. Please contact the Meeting Secretariat Desk for further information.

Information for presenters
It is highly recommended that all speakers hand their presentation files (USB or CD) at the Speaker Preview desk, at the latest one hours before their presentation. Kindly note that the use of a personal laptop or/and any other device is not recommended. As a reminder, VHS videos, overhead projection (transparencies etc.) will not be available.

Poster Presentations
The Poster Area is located at the foyer of the venue. Poster reference numbers will be displayed at the top of the poster boards. Participants are kindly requested not to remove or change the numbers. The Meeting Secretariat is not responsible for material left behind, lost, damaged or stolen. Authors are responsible for mounting/removing their posters, according to the below respective information. Mounting material will be available at the Meeting Secretariat.

F&B
Coffee and Lunch breaks will be served at the foyer of the venue according to the timetable of the program in the previous pages.

Meeting Dinner
Meeting Dinner will take place on October 18th, at Aegli restaurant (Aegli - Garden of Zappio, Athens), at 20.30. No transfer will be provided.

Language
English is the official language of the Congress and there will be no translation facilities available for congress participants.

Meeting Secretariat

AFE A S.A. TRAVEL AND CONGRESS SERVICES
PROFESSIONAL CONGRESS ORGANIZER (PCO)
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