

COST ACTION: MITOEAGLE
INFORMATION ABOUT YOUR WORK AND INSTITUTION

<p>GENERAL INFORMATION</p> <p>PARTICIPANT FULL NAME: Nektarios Tavernarakis</p> <p>EMAIL: tavernarakis@imbb.forth.gr</p> <p>TELEPHONE: +302810391069</p> <p>INSTITUTION NAME: Foundation for Research and Technology-Hellas, Institute of Molecular Biology and Biotechnology (FORTH - IMBB)</p> <p>WEB PAGE LINK: http://www.forth.gr/ http://www.imbb.forth.gr/</p> <p>LABORATORY NAME: Neurogenetics and Ageing</p> <p>WEB PAGE LINK: http://www.elegans.gr/</p>

<p>ABOUT YOUR INSTITUTION</p> <p>SPECIALITY/ORIENTATION OF YOUR INSTITUTION: The Institute of Molecular Biology and Biotechnology (IMBB; http://www.imbb.forth.gr/) is one of the six Institutes of the Foundation for Research and Technology - Hellas (FORTH; http://www.forth.gr/), which is based in Heraklion (Crete, Greece). IMBB's mission is the pursuit of breakthrough research in Life Sciences and Biomedicine.</p> <p>INSTITUTION SIZE: >200</p> <p>BRIEF DESCRIPTION OF FACILITIES (no more than 5-8 lines): FORTH is currently the most prominent research institution in Greece, with an outstanding record of scientific achievements, a modern infrastructure and a broad range of research, development and educational activities. IMBB's mission is the pursuit of breakthrough research in Life Sciences and Biomedicine. An additional standing mandate of IMBB is the exploitation and translation of acquired knowledge to tangible societal benefits, including the development of innovative products and services. The quality of the scientific environment at IMBB is enriched by monthly colloquia, invited speakers and student choice seminars. Finally, FORTH is an experienced participant of European Union programmes, with exceptional performance in the management of previous and ongoing EU projects. Processing of cost statements and scientific reports, monitoring of finances, and enforcement of specific financial guidelines, have been streamlined by the FORTH Administrative Services department and the relevant mechanisms are already in place.</p>

ABOUT YOUR WORK

SPECIALITY/ORIENTATION OF YOUR WORK: Our research focuses on the molecular mechanisms of necrotic cell death and neurodegeneration, the interplay between cellular metabolism and ageing, the mechanisms of sensory transduction and integration by the nervous system, and the development of novel genetic tools for biomedical research.

SIZE OF THE GROUP: 16 members

BRIEF DESCRIPTION TECHNICAL SKILLS (no more than 5 lines):

Please see <http://www.elegans.gr/> for relevant information

5 MOST IMPORTANT PUBLICATIONS IN THE LAST 5 YEARS.

1. Palikaras K., Lionaki E. and Tavernarakis N. (2015) Coordination of mitophagy and mitochondrial biogenesis during ageing in *Caenorhabditis elegans*. **Nature**, 521: 525-528.
2. Palikaras K., Lionaki E. and Tavernarakis N. (2015) Balancing mitochondrial biogenesis and mitophagy to maintain energy metabolism homeostasis. **Cell Death and Differentiation**, 22: 1399-1401.
3. Schiavi A., Maglioni S., Palikaras K., Shaik A., Strapazzon F., Brinkmann V., Torgovnick A., Castelein N., De Henau S., Braeckman B. P., Cecconi F., Tavernarakis N. and Ventura N. (2015) Iron starvation-induced mitophagy mediates lifespan extension upon mitochondrial stress in *C. elegans*. **Current Biology**, 25: 1810-1822.
4. Kourtis N., Nikolettou V. and Tavernarakis N. (2012) Small heat shock proteins protect from heat stroke-associated neurodegeneration. **Nature**, 490: 213-218.
5. Artal-Sanz M. and Tavernarakis N. (2009) Prohibitin couples diapause signaling to mitochondrial energy metabolism during ageing in *Caenorhabditis elegans*. **Nature**, 461: 793-797.

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BRIEF DESCRIPTION OF HOW ARE YOUR CURRENT AND FUTURE PROJECTS FUNDED FOR THE NEXT 5 YEARS. (National funds, EU funds, private funds...)

Please see <http://www.elegans.gr/> for relevant information

Full CV at: http://www.tavernarakislab.gr/nektarios/curriculum_vitae.html

PRESENTATION AND ORGANIZATION

We are exploring different ways to integrate all members of our consortium.
Do you see your work in any of the following Working Groups. If so, fill the corresponding box.

☒ **WG1. Standard operating procedures and user requirement document:
Protocols, terminology, documentation**

☒ **WG 2: MITOEAGLE data repository in muscle and other tissues**

☐ **WG3. MITOEAGLE data repository on fat tissues and other tissues**

☐ **WG4. MITOEAGLE data repository for blood cells and cultured cells**

ABOUT YOUR INTERACTIONS

- 1. Indicate previous collaborations in EU projects with the partners of this COST initiative**

None

- 2. Please include any publication you have produced in collaboration with other members of this COST initiative**

None

- 3. Indicate previous collaborations among partners in other networks (national and international)**

- 4. Indicate your experience in EU funded collaborative projects**

Please see full CV at:

http://www.tavernarakislab.gr/nektarios/curriculum_vitae.html for relevant information

- 5. Indicate previous, present and/or future collaborations with companies of the areas of this COST initiative.**

None