

Niki Chondrogianni, Ph.D.

## Niki Chondrogianni

Research Director

Group Leader

Institute of Chemical Biology (ICB)

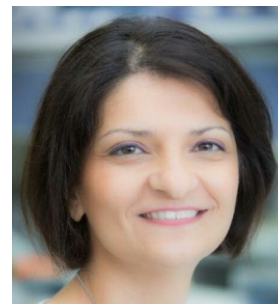
National Hellenic Research Foundation (NHRF)

Phone: +30-210-7273768

Fax: +30-210-7273677

E-mail: [nikichon@eie.gr](mailto:nikichon@eie.gr)

Website: <http://www.eie.gr/nhrf/institutes/ibrb/cvs/cv-chondrogianni-en.pdf>



### **Education**

**2004** : Ph.D. in Biology, Department of Biology, National and Kapodistrian University of Athens (NKUA), in collaboration with the NHRF

**Project:** *The role of the proteasome in human ageing and longevity*

**1994-1999** : Bachelor of Science (B.Sc.), University of Athens, Department of Biology

**Fourth year project:** *Study of the results of the chemotherapeutic drug of adriamycin on human cancerous osteoblasts: Mode of death, expression patterns of MDR, MDM-2 and ApoJ. Relation of these genes with cellular ageing*

**Foreign languages:** English, French

### **Academic Appointments**

**01/2022-present** : **Research Director** (Professor Grade), ICB/NHRF

**05/2013-12/2021** : **Senior Researcher** (Associate Professor Grade), IBMCB (Institute of Biology, Medicinal Chemistry and Biotechnology, renamed to ICB in 2019)/NHRF

**10/2009-04/2013** : **Associate Researcher** (Assistant Professor Grade), IBRB (Institute of Biological Research and Biotechnology, renamed to IBMCB in 2012)/NHRF

**2009-present** : **Group Leader of the Molecular and Cellular Ageing Lab 1 (MCA1)**

**2004-2009** : **Post-doctoral researcher**, IBRB/NHRF, Gonos laboratory, Greece

**Project:** *Molecular mechanisms of proteasome activation*

**1999-2000** : **Research associate**, IBRB/NHRF, Gonos laboratory, Greece

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**1998-1999** : **Research fellow**, Université Denis Diderot – Paris 7, Laboratoire de Biologie et Biochimie Cellulaire du Vieillissement, Friguet laboratory, France

**Project:** *The role of the proteasome in ageing of human dermal fibroblasts*

### **Professional Training**

**2009** : **Scientific training/Visiting fellow**-Training in use of the model organism *C. elegans*, Foundation of Research and Technology-Hellas, Institute of Molecular Biology and Biotechnology, Tavernarakis laboratory, Greece

**2008** : **Scientific training/Visiting fellow** -Training in HPLC proteasome purification, Université Denis Diderot - Paris7, Laboratoire de Biologie et Biochimie Cellulaire du Vieillissement, Friguet laboratory, France

**2001** : **Scientific training/Visiting fellow**- Qualification in gel filtration analysis and immunoprecipitation, University of Bristol, Laboratory of Biochemistry (Proteasomes and intracellular proteolysis), Rivett laboratory, U.K

**Project (1):** *Differences in the proteasome complexes in early and late passage WI38 cells after treatment with IFN- $\gamma$*

**Project (2):** *Differences in the proteasome complexes in early and late passage WI38 cells*

**2001** : **Scientific training/Visiting fellow**- Qualification in two-dimensional electrophoresis Université Denis Diderot - Paris7, Laboratoire de Biologie et Biochimie Cellulaire du Vieillissement, Friguet laboratory, France

**Project:** *Differences of the proteasome in early and late passage WI38 cells by using 2D-electrophoresis*

**1997-98** : **Research fellow**, IBRB/NHRF, Molecular and Cellular Ageing Laboratory, Gonos laboratory, Greece

### **Institutional Responsibilities**

- **2020–present:** Elected member of the Scientific Council of the ICB/NHRF
- **2014–2016:** Organizer of the Internal Annual Seminar Series IBMCB/NHRF

### **Teaching and supervision experience**

1. Laboratory courses:

- Undergraduate students (Department of Biology, NKUA, 2002-2004)

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- Postgraduate students (Master of Science Program "Biological Applications in Medicine", Department of Biology, NKUA, 2002-2014)
- 2. Lecture in Master of Science Program in Biology (Master BIO I), University of Namur, FUNDP/URBC, Namur, Belgium, 2009, "Proteasome and Cellular Ageing"
- 3. Lectures in Master of Science Programs
  - a) "Educational Biology and Novel technologies", Department of Biology, NKUA, Biology II Course 2011-2017
  - b) "Bioinformatics", Department of Biology, NKUA, Molecular Biology and Genomics Course 2011-2021
  - c) "Biological Applications in Medicine", Department of Biology, NKUA, 2012-2014
  - d) "Molecular and Applied Physiology", Department of Medicine, NKUA, 2012-2019
  - e) "Bioentrepreneurism", Department of Biochemistry and Biotechnology, University of Thessaly and ICB/NHRF, 2018-present
  - f) "Oncology: from Oncogenesis to Therapy", University of Crete and ICB/NHRF, 2019-present
- 7. Lab supervisor of: **1 BSc thesis, 4 PhD theses, 2 Trainees/Visitors**
- 8. Supervisor of: **1 BSc thesis, 7 Master theses, 1 Bibliographical Master thesis, 3 PhD theses** [1 completed, 2 defense pending], **5 Research associates, 4 Post-doctoral fellows** [1 ongoing], **6 Trainees/Visitors, 1 Erasmus placement** [ongoing]

### **Honors and Awards**

- 1. Praise for poster oral presentation**, 73rd National Conference of Hellenic Society of Biochemistry and Molecular Biology, Athens, Greece, 2023 (Dr. A. Gioran)
- 2. Award of best poster presentation**, Chemical Biology Workshop: Drug & Biomarker Discovery, Athens, Greece, 2023 (Dr. T. Fotopoulou)
- 3. Leopold Flohé Redox Pioneer Young Investigator Award 2023**, SFRR-Europe meeting, Vienna, Austria, 2023 (Dr. N. Chondrogianni)
- 4. Award of best poster presentation**, 19th Hellenic Symposium on Medicinal Chemistry (HSMC-19), Patras, Greece, 2023 (Dr. T. Fotopoulou)
- 5. Elsevier Young Investigator Award for best oral presentation**, The Society of Free Radical Research - Europe 2022 Annual Conference, Ghent, Belgium, 2022 (Dr. A. Gioran)
- 6. Award of best oral presentation**, 9th International Conference on Oxidative Stress in Skin Biology and Medicine, Online event, 2021 (Dr. A. Gioran)
- 7. Award of publication with highest impact factor and SNIP (first and last name from ICB/NHRF) of the host Institute (ICB) in 2020:** Lefaki M., Papaevgeniou N., Tur J.A., Vorgias C.E., Sykiotis G.P., **Chondrogianni N.** (2020) The dietary triterpenoid 18 $\alpha$ -Glycyrrhetic acid protects from MMC-induced genotoxicity through the ERK/Nrf2 pathway. *Redox Biol.* 28: 101317.
- 8. Award of publication with highest impact factor (first and last name from ICB/NHRF) of the host Institute (ICB) in 2019:** Delivoria, D.C., Chia, S., Habchi, J., Perni, M., Matis, I., Papaevgeniou, N., Reczko, M., **Chondrogianni, N.**, Dobson, C.M., Vendruscolo, M., Skretas, G.\* (2019). Bacterial production and direct

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- functional screening of expanded molecular libraries for discovering inhibitors of protein aggregation. *Sci. Adv.* 5.
- 9. Award of best poster presentation**, 70<sup>th</sup> National Conference of Hellenic Society of Biochemistry and Molecular Biology, Athens, Greece, 2019
  - 10. Award of poster presentation**, The Society of Free Radical Research - Europe 2018 Annual Conference, Lisbon, Portugal, 2018 (Ms N. Papaevgeniou)
  - 11. Award of 2nd best poster communication**, The Society of Free Radical Research - Europe 2016 Annual Conference, Budapest, Hungary, 2016
  - 12. Award of best poster communication**, EMBO Conference "Molecular chaperones: From molecules to cells and misfolding diseases", Crete, Greece, 2015
  - 13. Award of best poster communication**, The Society of Free Radical Research - Europe 2014 Summer School, Spetses, Greece, 2014 (Ms M. Lefaki)
  - 14. Award of best oral communication**, 64<sup>th</sup> National Conference of Hellenic Society of Biochemistry and Molecular Biology, Athens, Greece, 2013 (Ms K. Georgila)
  - 15. Award of best poster communication**, The Society of Free Radical Research - Europe 2013 Annual Conference, Athens, Greece, 2013 (Ms K. Georgila)
  - 16. Catherine Pasquier Award 2011**, SFRR-Europe meeting, Istanbul, Turkey, 2011 (Dr. N. Chondrogianni)
  - 17. Spetsai International Young Investigator Award**, 40 Years' Spetsai Summer School Anniversary, "Workshop on Molecular and Cell Biology at Spetsai: Past, Present and Future - A Forty Years' Anniversary", Spetses, Greece, 2006 (Dr. N. Chondrogianni)
  - 18. Award of best oral presentation**, 7<sup>th</sup> Annual Meeting of Hellenic Research Club for Connective Tissue and Matrix Biology, Patras, Greece, 2005 (Dr. N. Chondrogianni)
  - 19. Award of Young Scientists "Gardiki-Kouidou" 2003 (Ph. D. student)**, 55<sup>th</sup> Meeting of Hellenic Society of Biochemistry and Molecular Biology, Athens, Greece, 2003 (Dr. N. Chondrogianni)
  - 20. Award of poster presentation "Cancer and Ageing award"**, The Society of Free Radical Research - Europe 2003 Annual Conference, Ioannina, Greece, 2003 (Dr. N. Chondrogianni)

#### **Associate editor in scientific journals**

- 1. Nov 2023-present:** Free Radical Biology & Medicine, Elsevier

#### **Editor in books**

- 1.** Editor in **Chondrogianni N.**, Pick E. and Gioran A (Eds) Proteostasis and Proteolysis: A volume in the Oxidative Stress and Disease book series, CRC Press, Taylor & Francis Group, 2021

#### **Guest editor in special issues**

- 1. Guest co-editor in Frontiers in Molecular Biosciences** Special Issue on "Dysregulated protein homeostasis in the ageing organism", 2021 by Pfirrmann T., **Chondrogianni N.**, Olzscha H., Vasilaki A.
- 2. Guest editor in Mechanisms of Ageing and Development (MAD)** Special Issue on "Molecular aspects of aging and longevity", 2018 for the IUBMB Focused Meeting on "Molecular aspects of ageing and longevity" (October 16<sup>th</sup> -19<sup>th</sup> 2017, Athens, Greece) by Gonos E.S., **Chondrogianni N.**, Djordjevic A.M.

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**3. Member of the editorial board of Annals of the New York Academy of Sciences**, Molecular Mechanisms and Models of Aging Vol. 1119, 2007 for the 12th Congress of the International Association of Biomedical Gerontology (IABG) Spetses, Greece 2007

### **Patents**

- 1.** Iconomidou V, and **Chondrogianni N.** (2023) "Peptide-analogues of cathepsin d as therapeutic agents in Alzheimer's disease", National patent (2023-0101-038 [OBI-Industrial Property Organisation])
- 2.** Koufaki M., Calogeropoulou T., **Chondrogianni N.**, Papahatjis D., Gonos E.S., Fotopoulou T., Prousis K., and Chatzapi E. (2018) "Bio-inspired proteasome activators with anti-ageing properties" National patent (patent pending, Filing no 2018-0100-094, 07/03/2018 [OBI-Industrial Property Organisation]), PCT/GR2019/000018, Bio-inspired proteasome activators with anti-ageing activity
- 3.** Gonos E.S., **Chondrogianni N.** and Chinou I. (2009) "Anti-aging properties of quercetin, 18 $\alpha$ -glycyrrhetic acid, hederagenin and quercetin caprylate" International and national patent (Filing no: 2009-0100-242 [OBI-Industrial Property Organisation]) (accompanied by cooperation agreement for the commercial exploitation of the patent with Korres<sup>®</sup>) **Relative product:** "Quercetin and Oak" (a series of anti-ageing and anti-wrinkles products) and "Black Pine" by Korres Natural Products

### **Scholarships**

- 1. 2012-14:** IKYDA 2012 programme for the promotion of the exchange and scientific cooperation between Greece and Germany
- 2. 2000-04:** Mpodosaki Foundation
- 3. October-November 2001:** Bourse de coopération franco-hellénique (Formation en recherche)
- 4. 1998-99:** Socrates/ Erasmus
- 5. 1995-97:** Department of Biology, University of Athens

### **Scholarships to members of the group (PhD projects peer reviewed)**

- 1.** Ms Eleni Panagiotidou, 10/2019- 3/2022, **Hellenic Foundation of Research and Innovation (HFRI)**
- 2.** Ms Dimitra Ranti, 2022, declined by the fellow, **Hellenic Foundation of Research and Innovation (HFRI)**
- 3.** Ms Nikoletta Papaevgeniou, 12/2016-05/2018, **Empeirikion Foundation**

### **Society memberships**

- Hellenic Society of Biochemistry and Molecular Biology
- Hellenic Society for Biological Sciences
- Hellenic Research Club for Connective Tissue and Matrix Biology
- Hellenic Scientific Society of Preventive Medicine and Antiaging
- Society for Free Radical Research-Europe

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### **Society board memberships**

- 1. 2020-present:** Elected member of the Board of the "Society of Free Radicals Research-Europe" (Meeting officer)
- 2. 2010-2014:** Elected member of the Board of the "Society of Free Radicals Research-Europe" (Member)

### **Scientific Councils and Boards memberships**

- 1. 2020-present:** Elected member of the Scientific Council of the ICB/NHRF
- 2. 2017-present:** International Advisory Board of ProMoAge (DFG Research Training Group 2155)

### **Member in editorial boards of International Scientific Journals**

- Biogerontology
- World Journal of Biological Chemistry
- Journal of Gerontology & Geriatric Research
- Redox Biology
- Biofactors
- Free Radical Research and Medicine
- Antioxidants

### **Reviewer in International Scientific Journals**

Aging Cell, Experimental Gerontology, Free Radical Research, Gerontology, Mechanisms of Ageing and Development, Current Gerontology and Geriatrics Research, Journal of Ageing Research, Journal of Green Pharmacy, Free Radical Biology and Medicine, BMC genomics, Journal of Proteomics, Biofactors, Redox Biology, PLoS ONE

### **Invited as an External Expert for the evaluation of International Research Units**

- 1.** "B2A, Biological Adaptation and Ageing" Research Unit, Sorbonne Université, Paris, France, 2023 (independent government-funded agency: "High Council for the Evaluation of Research and Higher Education" (Hcéres))

### **Invited as an External Expert for the evaluation of International Thesis**

- 1.** "Are senescent cells common features of Alzheimer's disease and sleep apnea?" to be supported by Ms. Laureline Urli, B2A - Institut Biologie Paris Seine – Sorbonne University
- 2.** "Study of the role of Bcl-xl in healthy aging and frailty prevention" supported by Ms. Aurora Román Domínguez, Universitat de València, Valencia, Spain, 2022

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3. "Modulation of FoxO signalling by glutathione" supported by Mr. Dimitrios Tsitsipatis, Jena University, Faculty of Biology and Pharmacy, Germany, 2017
4. "Role of P16INK4a and BMI-1 in oxidative stress-induced premature senescence in human dental pulp stem cells" supported by Mrs. Cristina Mas Bagues, Universitat de València, Valencia, Spain, 2017
5. "Characterization of proteasome assembly in psoriatic skin and during keratinocyte differentiation in vitro- role of the proteasome maturation protein (POMP)" supported by Mrs. Barbara Agnieszka Zieba, CNRS, Université de Montpellier, Montpellier, France, 2016

### **Invited as a member of the Evaluation Committee of National Thesis**

1. "Transcriptomic, signalling and secretome analysis for biomarker discovery in ageing and senescence" supported by Dionysia Skea, Department of Mechanical Engineering, National Technical University of Athens, Greece, 2023
2. "Elucidation of the UPR signalling pathway mediated by IRE1 protein in cancer using bioinformatics" supported by Konstantinos Voutetakis, Department of Biochemistry & Biotechnology, University of Thessaly, Greece, 2021
3. "Development of computational methods for the semantic interpretation, comparative analysis and visualization of omics data" supported by Thodoris Koutsandreas, Department of Mechanical Engineering, National Technical University of Athens, Greece, 2021
4. "Development and implementation of methodologies for the analysis and visualization of omic data of cellular senescence and metabolic syndrome" supported by Ilona Binenbaum, Department of Biology, University of Patras, Greece, 2020
5. "Study of the antifouling properties of secondary metabolites by marine organisms" supported by Maria Protopappa, Department of Biology, National and Kapodistrian University of Athens, Greece, 2020
6. "Effect of inflammation on muscle protein synthesis and breakdown in the aged human skeletal muscle" supported by Mr. Draganidis Dimitrios, Department of Physical Education and Sport Science, University of Thessaly, Greece, 2018
7. "Modeling of cellular signaling pathways using optimization methods" supported by Theodore Sakellaropoulos, Department of Mechanical Engineering, National Technical University of Athens, Greece, 2018

### **Scientific/Organizing Committees of Congresses**

1. Co-organizer of the **Society of Free Radical Research-Europe 2024 Summer School/FEBS/IUBMB Advanced Lecture Course** "Redox biochemistry: cellular responses and disease relevance", Spetses, Greece, 2022
2. Member of the Organizing Committee of the **73<sup>rd</sup> National Conference of the Hellenic Society of Biochemistry and Molecular Biology**, Athens, Greece, 2023



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3. Member of the Organizing Committee of the **Chemical Biology Workshop: Drug & Biomarker Discovery**, Athens, Greece, 2023
4. Co-organizer of **the Society of Free Radical Research-Europe 2022 Summer School**, "Redox alterations and cellular responses: From signalling to interventions", Spetses, Greece, 2022
5. Member of the Organizing Committee of **the 10th International Conference on Oxidative Stress in Skin Medicine and Biology**, Andros, Greece, 2022
6. Member of the Organizing Committee **of the 9th International Conference on Oxidative Stress in Skin Medicine and Biology**, Andros, Greece, 2021 (virtual meeting)
7. Co-organizer of **the COST Action CA16113 – CliniMARK Summer School**, "Omics Approaches for Biomarker Discovery and Validation", Spetses, Greece, 2019
8. Co-organizer of **the Society of Free Radical Research-Europe 2018 Summer School**, "FEBS Advanced Lecture Course: Redox-omic technologies and their applications in health and Disease in the SFRR-E Free Radical School Series", Spetses, Greece, 2018
9. Chair of **Proteolysis Symposium 2018**, Athens, Greece, 2018 [invited speakers: Nobel Laureate A. Ciechanover, D. Finley (Harvard University) and K. Davies (Dean of Faculty and Research of the USC Leonard Davis School of Gerontology)]
10. Co-organizer of **the Society of Free Radical Research-Europe 2016 Summer School**, "SFRR-E/FEBS Advanced Lecture Course on Redox Regulation of Metabolic Processes", Spetses, Greece, 2016
11. Member of Organizing Committee of **MAESTRO-Thales project workshop: Systems Biology approaches of cellular aging mechanisms**, Patras, Greece, 2014
12. Co-organizer of **the Society of Free Radical Research-Europe 2014 Summer School**, "Biochemical Basis of healthy ageing", Spetses, Greece, 2014
13. Member of the Organizing Committee of **the 64<sup>th</sup> National Conference of Hellenic Society of Biochemistry and Molecular Biology**, Athens, Greece, 2013
14. Chair of Organizing Committee of **COST CM1001 Training School** "Model organisms to study ageing" linked to **The Society of Free Radical Research - Europe 2013 Conference**, Athens, Greece, 2013
15. Member of Organizing Committee of **COST CM1001** linked to **The Society of Free Radical Research - Europe 2013 Conference**, Athens, Greece, 2013
16. Member of the Organizing/Scientific Committee of **The Society of Free Radical Research-Europe 2013 Conference**, Athens, Greece, 2013
17. Member of Organizing Committee of the **2nd Working Group Meeting of COST EU-ROS Action** linked to **The Society of Free Radical Research - Europe 2013 Conference**, Athens, Greece, 2013
18. Co-organizer of **the Society of Free Radical Research-Europe 2012 Summer School**, Spetses, Greece, 2012



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- 19.** Member of Organizing Committee for **Young Investigators Symposium of the Society of Free Radical Research-Europe 2011**, Istanbul, Turkey, 2011
- 20.** Member of Organizing Committee of **the 7<sup>th</sup> National Conference of Society for Free Radical Research (SFRR)-National Section**, Spetses, Greece, 2010
- 21.** Member of Organizing Committee of **the Society of Free Radical Research-Europe 2010 Summer School**, Spetses, Greece, 2010
- 22.** Member of Organizing Committee of the **3<sup>rd</sup> Swedish-Hellenic Life Science Research Conference**, Athens, Greece, 2010
- 23.** Member of Organizing/Scientific Committee of the **8<sup>th</sup> FEBS Young Scientists Forum (YSF)** Athens, Greece, 2008
- 24.** Member of Scientific Committee of **12<sup>th</sup> Congress of the International Association of Biomedical Gerontology (IABG)** Spetses, Greece 2007

### **Funded Research Projects**

- 1. Proteostasis** "Proteasome activation: Understanding of the systemic regulation of proteostasis during the progression of ageing and identification of anti-ageing structural proteasome activators from the Mediterranean Sea" (coordinator: Dr. N. Chondrogianni) Program "Research support with an emphasis on young researchers", 2020-2022 Total Budget: 45.500 Euros, Lab budget: 41.500, Role: Coordinator-Principal Investigator
- 2. Algosmetic** "Isolation and characterization of metabolites with anti-aging, wound-healing and melanogenesis-inhibitory properties" (coordinator: Prof. E. Ioannou) Program "Special Actions Aquaculture – Industrial Materials – Open Innovation in Culture", 2019-2022, Total Budget: 200.000 Euros, Lab budget: 45.000 Euros, Role: Principal Investigator
- 3. ProMiDis** ERC Consolidator Grant "A unified drug discovery platform for protein misfolding diseases" (coordinator: Dr. G. Skretas), 2019-2024, Total Budget: 1.972.000 Euros, Role: Workgroup member/co-supervisor of task 6 (*C. elegans*)
- 4. Hellenic Foundation of Research and Innovation (HFRI) Scholarships for PhD students**, PhD student: Ms Eleni Panagiotidou, "Study of the induction effects of proteostasis mechanisms in aging and age-related diseases", 10/2019- 3/2022, Total budget: 26.100 Euros, Lab budget: 26.100 Euros, Role: Coordinator-Principal Investigator
- 5. PEPTADE** "Preclinical studies of pharmacological interest on potent inhibitors of the Alzheimer's Disease" (coordinator: Prof. V. Ikonomidou) Program "Competiveness and Entrepreneurship"-Erevno-Dimiourgo-Kainotomo, 2018-2021, Total Budget: 1.000.000 Euros, Lab budget: 210.000 Euros, Role: Principal Investigator
- 6. RESET** "Bioinspired antiaging proteasome activators" (coordinator: INTERMED) Program "Competiveness and Entrepreneurship"-Erevno-Dimiourgo-Kainotomo, 2018-2021,

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Total Budget: 665.403 Euros, Lab budget: 170.665 Euros, Role: Principal Investigator/Member of NHRF Workgroup

**7. STHENOS- $\beta$**  Program "KRIPIS-II" "Targeted therapeutic approaches against degenerative diseases, with emphasis on cancer and aging-Optimization of bioactive compounds", Institute of Biology, Medicinal Chemistry and Biotechnology, 2017-2020, Total budget: 790.000 Euros, Lab budget: 22.000 Euros, Role: Partner

**8. Empeirikion Foundation Scholarships for PhD students**, PhD student: Ms Nikoletta Papaevgeniou, "Study of the effects of lipofuscin and AGEs in the progression of aging", 12/2016-05/2018, Total budget: 9.000 Euros, Lab budget: 9.000 Euros, Role: Coordinator-Principal Investigator

**9. Empirikion Foundation Scientific Projects 2010** (initiation during 2013) "Increasing intracellular anti-oxidant cellular capacity during ageing: the role of Nrf1 and Nrf2 transcription factors and the molecular cross-talk with the proteasome" (2013-2016) (coordinator: Dr. N. Chondrogianni) Total budget: 18.000 Euros, Lab budget: 18.000 Euros, Role: Coordinator-Principal Investigator

**10. Latsis Scientific Projects 2013** "Using bacteria and worms in the battle against Alzheimer's disease" (coordinator: Dr. N. Chondrogianni) Total budget: 12.000 Euros, Lab budget: 8.500 Euros, Role: Coordinator-Principal Investigator

**11. STHENOS** Program "KRIPIS" « Targeted therapeutic approaches against degenerative diseases, with emphasis on cancer and aging», Institute of Biology, Medicinal Chemistry and Biotechnology, (2013-2015) Total budget: 1.500.000 Euros, Lab budget: 22.000 Euros, Role: Partner

**12. StemAge** "Revealing strategies with antioxidant/antiageing properties in human stem cells " (coordinator: Prof. G. Koliakos) Program "Cooperation" (2013-2015) Total budget: 600.000/120.000 Euros, Lab budget: 120.000 Euros, Role: Member of NHRF Workgroup

**13. MAESTRO** "Modelling the dynamic progression of cellular aging through the development of systems biology and bioinformatics tools" (coordinator: Prof. A. Bezerianos) Ministry of Education, Lifelong Learning and Religious Affairs-Program "Thalis" (2012-2015) Total budget: 600.000 Euros, Lab budget: 132.500 Euros, Role: Principal Investigator

**14. GEnAge** «The role of Genetic and Environmental Factors in Aging and Longevity» (coordinator: Dr. G. Garinis) Ministry of Education, Lifelong Learning and Religious Affairs-Program "Thalis" (2012-2015) Total budget: 600.000 Euros, Lab budget: 71.400 Euros, Role: Principal Investigator

**15. Degrade-Age** "Integrative research on the molecular role of proteolytic mechanisms on proteome maintenance and stability during the progression of ageing and age-related diseases." (Greek coordinator: Dr. N. Chondrogianni, German coordinator: Dr. D. Bano) Programme for the promotion of the exchange and scientific

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cooperation between Greece and Germany – Programme IKYDA 2012 (2012-2014) Total budget: 20.000 Euros, Lab budget: 10.000 Euros, Role: Coordinator-Principal Investigator

**16. CMST COST Action CM1001** "Chemistry of non-enzymatic protein modification – modulation of protein structure and function" (coordinator: Dr. T. Grune) (2010-2014) ~400.000 Euros, Personal budget: Depending on the training activities and the meetings to be attended.

**17. BMBS COST Action BM1203** "EU-ROS" (coordinator: Prof. A. Daiber) (2012-2015) (MC Substitute Member), Personal budget: Depending on the training activities and the meetings to be attended.

**18. BMBS COST Action BM1307** "PROTEOSTASIS" (2014-2018) (coordinator: Dr. R. Barrio) (MC Member), Personal budget: Depending on the training activities and the meetings to be attended.

**19. BMBS COST Action BM1408** "GENiE" (2015-2019) (coordinator: Dr. S. Jarriault) (MC Member), Personal budget: Depending on the training activities and the meetings to be attended.

**20. CA COST Action 16112** "NutRedOx" (2017-2021) (coordinator: Prof Mustapha Cherkaoui Malki) (MC Member), Personal budget: Depending on the training activities and the meetings to be attended.

**21. CA COST Action 20113** "ProteoCure: A sound proteome for a sound body: targeting proteolysis for proteome remodeling" (2021-2025) (coordinator: Dr. R. Farras) (MC Member), Personal budget: Depending on the training activities and the meetings to be attended.

**22. CA COST Action 20121** "BenBedPhar: Bench to bedside transition for pharmacological regulation of Nrf2 in noncommunicable diseases" (2021-2025) (coordinator: Prof. A. Cuadrado) (MC Member), Personal budget: Depending on the training activities and the meetings to be attended.

### **Funded projects from the industry**

**1. NanoMito** "Biological evaluation of the toxicity of nanosystems in the nematode *Caenorhabditis elegans* and evaluation of their healthspan-extending potential", with In Touch Health, Total budget: 21.000 Euros, Role: Coordinator-Principal Investigator

**2. DHI** "Analysis of carbonylated proteins in hair follicles of donors of different ages" (coordinator: Dr. N. Chondrogianni) Total budget: 19.115 Euros, Lab budget: 19.115 Euros, Role: Coordinator-Principal Investigator

### **Current Team members**

Dr. Anna Gioran (postdoctoral fellow 2019-present), Ms Eleni Panagiotidou (Ph.D. thesis 2018-2022, *defense pending*), Ms Elvira Konti (Erasmus Placement 2024-present)

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### **Invited lectures at congresses and societies**

- 1. Chemical Biology Workshop: Drug & Biomarker Discovery**, Athens, Greece, 2023, "Neuron-specific proteasome activation exerts cell non-autonomous protection against amyloid-beta ( $A\beta$ ) proteotoxicity"
- 2. Diet and Optimum Health Conference 2023, Precision Health: Living Better, Longer, Corvallis, Oregon, USA**, 2023, "Healthspan-inducing natural and bio-inspired chemical compounds targeting the proteasome"
- 3. Workshop of OneHealthdrugs Cost Action CA21111** on Animal models for lead selection against vector borne parasitic diseases within the One Health concept, online, 2023, "What can we learn from model organisms; the paradigm of the nematode *Caenorhabditis elegans* and the proteasome"
- 4. SFRR-Europe meeting**, Vienna, Austria, 2023, "Proteasome activation and the secrets of anti-aging", **Special Lecture: Leopold Flohé Redox Pioneer Young Investigator Award 2023**
- 5. Joint meeting on Proteostasis and Cellular proteolysis ("Cellular Proteolysis" group of the SFBM (French Society of Biochemistry and Molecular Biology) and the Working Group 1 (WG1) of ProteoCure)**, Paris, France, 2023, "20S proteasome activation in the battle against ageing and Alzheimer's disease"
- 6. EMBO Workshop: The 20S proteasome degradation pathway**, Rehovot, Israel, 2023, "Proteasome activation during aging and proteinopathies"
- 7. The Society of Free Radical Research - Europe 2022 Summer School/IUBMB/FEBS Advanced Lecture Course**, Spetses, Greece, 2022, "The proteasome as a major player in the progression of ageing and proteinopathies"
- 8. The Society of Free Radical Research - Europe 2022 Annual Conference**, Ghent, Belgium, 2022, "The proteasome as a major player against ageing and proteinopathies" (selected symposium on Post-translational modification of proteins in health and disease)
- 9. ProMoAge – Protein Modification: A Key Mechanism for Ageing**, International Meeting 30.6-03.07.2022, 2022, "Bioactive compounds from edible species against ageing and proteotoxicity: mind the proteasome"
- 10. Hellenic Initiative against Alzheimer's/HIAAD Basic research seminar series**, virtual, 2021, "Proteasome activation against aging and proteotoxicity"
- 11. Seminars of the Institute of Chemical Biology, National Hellenic Research Foundation**, Athens, Greece, 2021, "The proteasome in healthspan and lifespan; Have we found the fountain of youth?"
- 12. ProMoAge – Protein Modification: A Key Mechanism for Ageing Retreat**, online workshop, 2021, "Proteasome activation against ageing and proteotoxicity"

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**13. Cell Death: Degeneration and Regeneration Symposium**, Istanbul, Turkey, 2019 "Modulation of aging and stress resistance through dietary and chemical compounds"

**14. COST CLINIMARK TRAINING SCHOOL Approaches for Biomarker Discovery and Validation**, Spetses, Greece, 2019 "Biomarkers of ageing"

**15. ICSA (International Cell Senescence Association) conference "Cellular senescence; The bright and the dark side"**, Athens, Greece, 2019, "Eat, pray, degrade: Potential anti-ageing strategies offered by Mother Nature (and not only)"

**16. Department of Pharmacy, University of Athens**, Athens, Greece, 2019, "The UPS system as a target in cosmetology and pharmacology"

**17. Department of Biochemical Sciences, Sapienza University of Rome**, Rome, Italy 2019, "Effects of Proteasome Modulation in Ageing and Age-Related Diseases"

**18. 2nd International Cell Death Research Congress (3rd Congress of Cell Death Research Society-Turkey)**, Izmir, Turkey, 2018 "Effects of proteasome modulation in ageing and age-related diseases"

**19. FEBS Advanced Lecture Course: Redox-omic technologies and their applications in health and disease in the SFRR-E Free Radical School Series**, Spetses, Greece, 2018 "Combined omics approaches in the study of human aging"

**20. 8th International Conference on "Oxidative Stress in Skin Biology and Medicine"**, Andros, Greece, 2018 "How diet-derived compounds can help in the battle against ageing and protein aggregation: the vital role of the proteasome"

**21. The Fourteenth International Symposium on Neurobiology and Neuroendocrinology of Aging**, Bregenz, Austria, 2018 "Diet-derived compounds in the battle against ageing and protein aggregation"

**22. DHI Academy Masters Meeting 2018**, Athens, Greece "Carbonylated proteins in hair follicles: An update"

**23. 3rd Conference Analytical methods to study oxidative damage, antioxidants and drugs**, Advanced analytical chemistry for life sciences, Bialystok, Poland 2018 "Proteasome activation through diet-derived compounds in the battle against ageing and protein aggregation"

**24. DIfE, German Institute of Human Nutrition, Potsdam-Rehbruecke**, Potsdam, Germany 2018 "Diet-derived compounds in the battle against ageing and protein aggregation"

**25. ProMoAge – Protein Modification: A Key Mechanism for Ageing Retreat**, Oppurg, Germany, 2017 "Diet-derived compounds in the battle against ageing and protein aggregation"

**26. GENiE COST-BM1408 Meeting: Proteostasis in aging and disease**, Split, Croatia 2017 "Proteasome activators in our diet: Modulation of proteostasis as an anti-ageing and anti-aggregation strategy"

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**27. The NutRedOx COST Action CA16112 & the 6<sup>th</sup> NutriOx Atelier 2017: Preventing Age-related diseases with redox active compounds: a taste of controversy?**, Strasburg, France 2017 "Proteasome activators in our diet: a promising strategy against aging and aggregation"

**28. International Symposium: Modulating Ageing/Anti-ageing: from molecular biology to clinical perspectives**, Halle (Saale), Germany 2017 "Proteasome modulation as an anti-aging and anti-aggregation strategy"

**29. OCC World Congress 2017 and Annual SFRR-E Conference "Metabolic stress and redox regulation"**, Berlin, Germany 2017 "Diet constituents as proteasome activators: A promising strategy against aging and aggregation"

**30. DHI Academy Masters Meeting 2017**, Sounio, Greece "Carbonylated proteins in hair follicles: A new research approach"

**31. Mediterranean Neuroscience Society-6th Conference 2017, "Symposium on Role of ubiquitin proteasome system (UPS) in synaptic plasticity: implications for new therapeutic approaches"**, St. Julians, Malta 2017 "Proteasome activation promotes decelerated progression of aging and Alzheimer's disease"

**32. ZOMES IX PCI complexes and ubiquitin defining a hub for protein homeostasis**, Rome, Italy 2017 "Proteasome manipulation as an anti-aging and anti-aggregation strategy"

**33. CNRS, Université de Montpellier**, Seminar, Montpellier, France 2016 "Proteasome activation as a preventive or therapeutic approach against aging and aggregation"

**34. 3rd PROTEOSTASIS Action Meeting**, Proteostasis and its Biological Implications, Lisbon, Portugal 2016 "Proteasome activation as an anti-ageing and anti-aggregation strategy"

**35. The Society of Free Radical Research-Europe 2016 Summer School**, Spetses, Greece 2016 "Proteasome manipulation against aging and aggregation"

**36. EMBO Ubiquitin and ubiquitin-like modifiers: From molecular mechanisms to human diseases, Cavtat, Croatia/COST PROTEOSTASIS Parallel meeting "Proteostasis in stress and disease"**, Cavtat, Croatia, 2015 "Proteasome activation in the battle against ageing and age-related diseases"

**37. SFRR-E/SNFS Meeting Stuttgart 2015**, Stuttgart, Germany, 2015 "The pivotal role of proteasome enhancement in ageing, longevity and proteostasis across species"

**38. SFBBM, 7<sup>ème</sup> Colloque Protéolyse Cellulaire**, Sète, France, 2015 "Proteasome activation and its crucial role in longevity and proteostasis across species"

**39. MAESTRO-Thales project workshop: Systems Biology approaches of cellular aging mechanisms**, Patras, Greece, 2014 "The dynamic interconnection between proteasome and ageing"



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- 40. The Society of Free Radical Research - Europe 2014 Summer School**, Spetses, Greece, 2014 "Nrf2 regulation in health and disease"
- 41. 3rd Protein Summer School of the University of Athens, Faculty of Biology**, Athens, Greece, 2013 "The proteasome in the service of protein degradation: insights into its role during ageing"
- 42. The Society of Free Radical Research - Europe 2012 Summer School**, Spetses, Greece, 2012 "Nrf2-signalling and redox balance"
- 43. The Society of Free Radical Research - Europe 2012 Summer School**, Spetses, Greece, 2012 "Overview of the proteasome-basic knowledge"
- 44. 6th International Summer School on Emerging Technologies in Biomedicine, "Bioinformatics and Systems Biology Approaches for the Analysis of Complex Biological Networks"**, Patras, Greece, 2012, "Combinatorial approaches, techniques and models in the study of human ageing in vitro and in vivo"
- 45. DAAD-Demokritos National Center for Scientific Research "Research and Fellowships in Germany"**, Athens, Greece, 2012, "The pivotal role of proteasome in cellular and organismal ageing"
- 46. Seminars of the Institute of Biology, Medicinal Chemistry and Biotechnology, National Hellenic Research Foundation**, Athens, Greece, 2012, "The pivotal role of proteasome in cellular and organismal ageing"
- 47. Seminars at DZNE-Bonn-Cologne-Jülich**, Bonn, Germany, 2012, "Dynamic interplay between proteasome and ageing/cellular senescence"
- 48. SFRR-Europe 2011 meeting**, Istanbul, Turkey, 2011 "Proteasome and aging: A dynamic interplay" Special Lecture: 7<sup>th</sup> Catherine Pasquier Award Lecture
- 49. The Society of Free Radical Research Meeting**, Oslo, Norway, 2010 "The proteasome as a target in anti-aging"
- 50. The Society of Free Radical Research - Europe 2010 Summer School**, Spetses, Greece, 2010 "An overview of the proteasome: insights into its specific role during ageing"
- 51. 3<sup>rd</sup> Swedish-Hellenic Life Science Research Conference**, Athens, Greece, 2010 "The proteasome as target in anti-aging"
- 52. WhyWeAge: A European road map for molecular Biogerontology, Biomarkers of Ageing and Longevity**, Athens, Greece, 2010 "Proteasome as an anti-ageing target"
- 53. 11<sup>th</sup> National Conference of Gerontology and Geriatrics**, Athens, Greece, 2010 "The proteasome as a target in anti-aging"
- 54. University of Namur-FUNDP/URBC**, Namur, Belgium, 2009 "Proteasome and Cellular Ageing"
- 55. 6<sup>th</sup> National Conference of Clinical Chemistry**, Athens, Greece, 2006 "Free radicals and ageing: the crucial role of proteasome"

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**56. Seminars of the Institute of Biological Research and Biotechnology, National Hellenic Research Foundation**, Athens, Greece, 2005 "Molecular mechanisms of proteasome regulation and activation during ageing"

**57. 3<sup>rd</sup> Annual Meeting of Society for Free Radical Research (SFRR)-National Section**, Athens, Greece, 2002 "Ageing and oxidative stress: the role of the proteasome in the degradation of oxidized proteins"

### **Invited public lectures**

1. Αντιγήρανση και νεότητα: Πώς μπορούν να μας βοηθήσουν ουσίες της καθημερινής μας διατροφής;

Ειδικές Μορφωτικές Εκδηλώσεις ΕΙΕ, Γ' Κύκλος Ομιλιών // "Νεότητα, αντιγήρανση και μακροζωία: σύγχρονες προσεγγίσεις της βιολογικής ηλικίας μέσω των Ιστορικών και Βιολογικών Επιστημών" 20/3/2018

### **Communications (oral and poster presentations) at national or international congresses (until 26/01/2024)**

Total number: 222 (National conferences: 57, International conferences: 165)

### **Publications in refereed journals**

**1.** Panagiotidou E., Gioran A., Bano D. and **Chondrogianni N.** (2023) Neuron-specific proteasome activation exerts cell non-autonomous protection against amyloid-beta (A $\beta$ ) proteotoxicity in *Caenorhabditis elegans*. *Redox Biology* 65: 102817.

**2.** Rizou A.E.I., Nasi G.I., Paikopoulos Y., Bezantakou D.S., Vraila K.D., Spatharas P.M., Dimaki V.D., Papandreou N.C., Lamari F.N., **Chondrogianni N.** and Iconomidou V.A. (2023) A multilevel study of eupatorin and scutellarein as anti-amyloid agents in Alzheimer's disease. *Biomedicines* 11:1357.

**3.** Vasilopoulou M.A., Gioran A., Theodoropoulou M., Koutsaviti A., Roussis V., Ioannou E., **Chondrogianni N.** (2022) Healthspan improvement and anti-aggregation effects induced by a marine-derived structural proteasome activator. *Redox Biology* 56: 102462.

**4.** Draganidis D., Jamurtas AZ., **Chondrogianni N.**, Mastorakos G., Jung T., Grune T., Papadopoulos C., Papanikolaou K., Papassotiriou I., Papaevgeniou N., Poulios A., Batrakoulis, A., Deli CK., Georgakouli K., Chatzinikolaou A., Karagounis LG., Fatouros IG. (2021) Low-grade systemic inflammation interferes with anabolic and catabolic characteristics of the aged human skeletal muscle. *Oxid. Med. Cell. Longev.* 8376915: 1-14.

**5.** Aktypi F., Papaevgeniou N., Voutetakis C., Chatziioannou A., Grune T., **Chondrogianni N.** (2021) Network analysis in aged *C. elegans* reveals candidate regulatory genes of ageing. *Biogerontology* 22: 345-367.

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- 6.** Magoulas GE., Kalopetridou L., Ćirić A., Kritsi E., Kouka P., Zoumpoulakis P., **Chondrogianni N.**, Soković M., Prousis KC., Calogeropoulou T. (2021) Synthesis, biological evaluation and QSAR studies of new thieno[2,3-d]pyrimidin-4(3H)-one derivatives as antimicrobial and antifungal agents. *Bioorganic Chem.* 106: 104509.
- 7.** Sacramento Kelmer E., Kirkpatrick J.M., Mazzetto M., Baumgart M., Bartolome A., Di Sanzo S., Caterino C., Sanguanini M., Papaevgeniou N., Lefaki M., Childs D., Bagnoli S., Terzibaszi Tozzini E., Di Fraia D., Romanov N., Sudmant P., Huber W., **Chondrogianni N.**, Vendruscolo M., Cellerino A. and Ori A. (2020) Reduced proteasome activity in the aging brain results in ribosome stoichiometry loss and aggregation. *Mol. Syst Biol* 16(6):e9596. (cover page)
- 8.** Laidou S., Alanis-Lobato G., Pribyl J., Raskó T., Tichy B., Mikulasek K., Tsagiopoulou M., Oppelt J., Kastrinaki G., Lefaki M., Singh M., Zink A., **Chondrogianni N.**, Psomopoulos F., Prigione A., Ivics Z., Pospisilova S., Skladal P., Izsvák Z., Andrade-Navarro M.A., Petrakis S. (2020) Nuclear inclusions of pathogenic ataxin-1 induce oxidative stress and perturb the protein synthesis machinery. *Redox Biology* 32: 101458.
- 9.** Binenbaum I., Lefaki M., **Chondrogianni N.\***, Chatziioannou A. (2020) Bioinformatic framework for analysis of transcription factor changes as the molecular link between replicative cellular senescence signaling pathways and carcinogenesis. *Biogerontology* 21: 357-366. (\* co-corresponding author)
- 10.** Papaevgeniou N., Hoehn A., Tur J.A., Klotz L.O., Grune T., **Chondrogianni N.** (2019) Sugar-derived AGEs accelerate pharyngeal pumping rate and increase the lifespan of *Caenorhabditis elegans*. *Free Radic Res.* 2019 Sep 13: 1-12.
- 11.** Lefaki M., Papaevgeniou N., Tur J.A., Vorgias C.E., Sykiotis G.P., **Chondrogianni N.** (2019) The dietary triterpenoid 18 $\alpha$ -Glycyrrhetic acid protects from MMC-induced genotoxicity through the ERK/Nrf2 pathway. *Redox Biol.* 28: 101317.
- 12.** Delivoria D.C., Chia S., Habchi J., Perni M., Matis I., Papaevgeniou N., Reczko M., **Chondrogianni N.**, Dobson C.M., Vendruscolo M., Skretas G. (2019) Bacterial production and direct functional screening of expanded molecular libraries for discovering inhibitors of protein aggregation. *Sci Adv.* 5(10): eaax5108.
- 13.** Sakellari M., **Chondrogianni N.**, Gonos E.S. (2019) Protein synthesis inhibition induces proteasome assembly and function. *Biochem Biophys Res Commun.* 514: 224-230.
- 14.** Draganidis D., Jamurtas A.Z., Stampoulis T., Laschou V., Deli C.K., Georgakouli K., Papanikolaou K., Chatzinikolaou A., Michalopoulou M., Papadopoulos C., Tsimeas P., **Chondrogianni N.**, Koutedakis Y., Karagounis L.G. and Fatouros I.G. (2018) Disparate habitual physical activity and dietary intake profiles of elderly men with low and elevated systemic inflammation. *Nutrients* 10 (5), pii: E566.

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**15.** Athanasopoulou S., **Chondrogianni N.**, Santoro A., Asimaki K., Delitsikou V., Voutetakis K., Fabbri C., Pietruszka B., Kaluza J., Franceschi C., Gonos E.S. (2018) Beneficial effects of elderly tailored Mediterranean diet on the proteasomal proteolysis. *Front. Physiol.* 9: 457.

**16.** Matis I., Delivoria D.C., Mavroidi B., Papaevgeniou N., Panoutsou S., Bellou S., Papavasileiou K.D., Linardaki Z.I., Stavropoulou A.V., Vekrellis K., Boukos N., Kolisis F.N., Gonos E.S., Margarity M., Papadopoulos M.G., Efthimiopoulos S., Pelecanou M., **Chondrogianni N.**, Skretas G. (2017) An integrated bacterial system for the discovery of chemical rescuers of disease-associated protein misfolding. *Nature Biomed. Eng.* 1: 838–852.

**17.** Draganidis D., **Chondrogianni N.**, Chatzinikolaou A., Terzis G., Karagounis L.G., Sovatzidis A., Avloniti A., Lefaki M., Protopappa M., Deli C.K., Papanikolaou K., Jamurtas A.Z., Fatouros I.G. (2017) Protein ingestion preserves proteasome activity during intense aseptic inflammation and facilitates skeletal muscle recovery in humans. *Br. J. Nutr.* 118: 189-200.

**18.** Filippopoulou K., Papaevgeniou N., Lefaki M., Paraskevopoulou A., Biedermann D, Kren V. and **Chondrogianni N.** (2017) 2,3-Dehydrosilybin A/B as a pro-longevity and anti-aggregation compound. *Free Rad. Biol. Med.* 103:256-267.

**19.** Kapetanou M., **Chondrogianni N.**, Petrakis S., Koliakos G. and Efstathios S. Gonos (2017) Proteasome activation enhances stemness and lifespan of human mesenchymal stem cells. *Free Rad. Biol. Med.* 103:226-235. **(co-corresponding author)**

**20.** Papaevgeniou N., Sakellari M., Jha S., Tavernarakis N., Holmberg C.I., Gonos E.S and **Chondrogianni N.** (2016) 18 $\alpha$ - glycyrrhetic acid proteasome activator decelerates aging and Alzheimer's disease progression in *C. elegans* and neuronal cultures. *Antiox. Redox Signal.* 25: 855-869. **(cover page)**

**21.** **Chondrogianni N.**, Georgila K., Kourtis N., Tavernarakis N., Gonos E.S. (2015) 20S proteasome activation promotes life span extension and resistance to proteotoxicity in *Caenorhabditis elegans*. *FASEB J* 29: 611-622. **(co-corresponding author)**

**22.** Koufaki M\*, Fotopoulou T., Kapetanou M., Heropoulos GA\*, Gonos E.S, **Chondrogianni N\***. (2014) Microwave-assisted synthesis of 3,5-disubstituted isoxazoles and evaluation of their anti-ageing activity. *Eur. J. Med. Chem.* 83: 508-515. **(\* equal contribution)**

**23.** Tsolou A., Nelson G.; Trachana V., **Chondrogianni N.**, Saretzki G., von Zglinicki T.; Gonos E.S. (2012) The 19S proteasome subunit Rpn7 stabilizes DNA damage foci upon genotoxic insult. *IUBMB Life* 64: 432-442.

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- 24.** Graikou K., Kapeta S., Aligiannis N., Sotiroudis G., **Chondrogianni N.**, Gonos E.S. and Chinou I. (2011) Chemical Analysis of Greek Pollen - Antioxidant, antimicrobial and proteasome activation properties. *Chem Cent J.* 5: 33.
- 25. Chondrogianni N.**, Kapeta S., Chinou I., Vassilatou K., Papassideri I. and Gonos E.S. (2010) Anti-ageing and rejuvenating effects of quercetin. *Exp. Gerontol.* 45: 763-771. **(co-corresponding author)**
- 26.** Kapeta S., **Chondrogianni N.** and Gonos E.S. (2010) Nrf2 mediated proteasome activation delays senescence in human fibroblasts. *J. Biol. Chem.* 285: 8171-8184. **(co-corresponding author)**
- 27.** Trougakos I.P., **Chondrogianni N.**, Amarantos I., Blake J., Schwager C., Ansorge W. and Gonos E.S. (2010) Genome-wide transcriptome profile of the human osteosarcoma Sa OS and U-2 OS cell lines. *Cancer Genet Cytogenet.* 196: 109-118.
- 28.** Catalgol B., Ziaja I., Breusing N., Jung T., Hoehn A., Alpertunga B., Schroeder P., **Chondrogianni N.**, Gonos E.S., Petropoulos I., Friguet B., Klotz L.O., Krutmann J. and Grune T. (2009) The proteasome is an integral part of solar ultraviolet a radiation-induced gene expression. *J. Biol. Chem.* 284: 30076-30086.
- 29.** Balantinou E., Trougakos I.P., **Chondrogianni N.**, Margaritis L.H. and Gonos E.S. (2009) Transcriptional and post-translational regulation of clusterin by the two main cellular proteolytic pathways. *Free Rad. Biol. Med.* 46:1267-1274.
- 30. Chondrogianni N.**, Trougakos I.P., Kletsas D., Chen Q.M. and Gonos E.S. (2008) Partial proteasome inhibition in human fibroblasts triggers accelerated M1 senescence or M2 crisis depending on p53 and Rb status. *Aging Cell*, 7: 717-732. **(journal's highlight)**
- 31.** Poullos E., Trougakos I.P., **Chondrogianni N.** and Gonos E.S. (2007) Exposure of human diploid fibroblasts to hypoxia extends proliferative lifespan. *Ann. N. Y. Acad. Sci.* 1119: 9-19.
- 32. Chondrogianni N.** and Gonos E.S. (2007) Overexpression of hUMP1/POMP proteasome accessory protein enhances proteasome-mediated antioxidant defence. *Exp. Gerontol.* 42: 899-903.
- 33.** Katsiki M., **Chondrogianni N.**, Chinou I., Rivett A.J., and Gonos E.S. (2007) The olive constituent oleuropein exhibits proteasome stimulatory properties in vitro and confers lifespan extension of human embryonic fibroblasts. *Rejuvenation Res.* 10: 157-172.
- 34.** Stratford F.L., **Chondrogianni N.**, Trougakos I.P., Gonos E.S. and Rivett A.J. (2006) Proteasome response to interferon-gamma is altered in senescent human fibroblasts. *FEBS Lett.* 580: 3989-3994.
- 35. Chondrogianni N.**, Tzavelas C., Pemberton A.J., Nezis I.P., Rivett A.J. and Gonos E.S. (2005) Overexpression of proteasome beta 5 subunit increases the amount of

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assembled proteasome and confers ameliorated response to oxidative stress and higher survival rates. *J. Biol.Chem.* 280: 11840-11850.

**36. Chondrogianni N.**, Simoes D.C.M., Francheschi C. and Gonos E.S. (2004) Cloning of differentially expressed genes in skin fibroblasts from centenarians. *Biogerontology* 5: 401-409.

**37.** Katsiki M., Trougakos I.P., **Chondrogianni N.**, Alexopoulos E.C., Makropoulos V. and Gonos E.S. (2004) Alterations of senescence biomarkers in human cells by exposure to CrVI *in vivo* and *in vitro*. *Exp. Gerontol.* 39: 1079-1087.

**38. Chondrogianni N.** and Gonos E.S. (2004) Proteasome inhibition induces a senescence-like phenotype in primary human fibroblasts cultures. *Biogerontology* 5: 55-61.

**39. Chondrogianni N.**, Stratford F.L.L., Trougakos I.P., Friguet B., Rivett A.J. and Gonos E.S. (2003) Central role of the proteasome in senescence and survival of human fibroblasts: induction of a senescence-like phenotype upon its inhibition and resistance to stress upon its activation. *J. Biol. Chem.* 278: 28026–28037.

**40.** Agiostratidou G., Sgouros I., Galani A., Voulgari A., **Chondrogianni N.**, Samantas E., Demopoulos M.A., Skarlos D. and Gonos E.S. (2001) Correlation of *in vitro* cytotoxicity and clinical response to therapy in ovarian and breast cancer patients. *Anticancer Res.* 21: 455-459.

**41. Chondrogianni N.**, Petropoulos I., Franceschi C., Friguet B., and Gonos E.S. (2000) Fibroblast cultures from healthy centenarians have an active proteasome. *Exp. Gerontol.* 35: 721-728.

## **Reviews**

**1.** Gkekas I., Gioran A., Boziki M.K., Grigoriadis N., **Chondrogianni N.** and Petrakis S. (2021) Oxidative stress and neurodegeneration: interconnected processes in polyQ diseases. *Antioxidants* 10, 1450.

**2.** Lagoumtzi S. and **Chondrogianni N.** (2021) Senolytics and Senomorphics: natural and synthetic therapeutics in the treatment of aging and chronic diseases. *Free Radical Biol. Med.* 171: 169-190.

**3.** Vasilopoulou MA., Ioannou E., Roussis V. and **Chondrogianni N.** (2021) Modulation of the ubiquitin-proteasome system by marine natural products. *Redox Biol.* 41:101897.

**4.** Gioran A. and **Chondrogianni N.** (2020) Mitochondria (cross)talk with proteostatic mechanisms; focusing on ageing and neurodegenerative diseases. *Mech. Ageing. Dev.* 190:111324.

**5.** Panagiotidou E. and **Chondrogianni N.** (2020) We are what we eat: ubiquitin-proteasome system (UPS) modulation through dietary products. *Adv. Exp. Med. Biol.* 1233: 329-348.



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- 6.** Paunkov A., Chartoumpakis DV., Ziros PG., **Chondrogianni N.**, Kensler TW., Sykiotis GP. (2019) Impact of Antioxidant Natural Compounds on the Thyroid Gland and Implication of the Keap1/Nrf2 Signaling Pathway. *Curr Pharm Des.*, 25: 1828-1846.
- 7.** Santín-Márquez R., Alarcón-Aguilar A., López-Diazguerrero N.E., **Chondrogianni N.**, Königsberg M. (2019) Sulforaphane - role in aging and neurodegeneration. *Geroscience*, 41: 655-670.
- 8.** Papaevgeniou N. and **Chondrogianni N.** (2018) Identification of anti-aging and anti-aggregation polyphenolic compounds using *C. elegans* as a model organism. *Curr Pharm Des.* 24: 2107-2120.
- 9.** Lefaki M., Papaevgeniou N. and **Chondrogianni N.** (2017) Redox regulation of proteasome function. *Redox Biology* 13: 452-458.
- 10.** Egea J, Fabregat I, Frapart YM, Ghezzi P, Görlach A, Kietzmann T, Kubaichuk K, Knaus UG, Lopez MG, Olaso-Gonzalez G, Petry A, Schulz R, Vina J, Winyard P, Abbas K, Ademowo OS, Afonso CB, Andreadou I, Antelmann H, Antunes F, Aslan M, Bachschmid MM, Barbosa RM, Belousov V, Berndt C, Bernlohr D, Bertrán E, Bindoli A, Bottari SP, Brito PM, Carrara G, Casas AI, Chatzi A, **Chondrogianni N**, Conrad M, Cooke MS, Costa JG, Cuadrado A, My-Chan Dang P, De Smet B, Debelec-Butuner B, Dias IHK, Dunn JD, Edson AJ, El Assar M, El-Benna J, Ferdinandy P, Fernandes AS, Fladmark KE, Förstermann U, Giniatullin R, Giricz Z, Görbe A, Griffiths H, Hampl V, Hanf A, Herget J, Hernansanz-Agustín P, Hillion M, Huang J, Ilikay S, Jansen-Dürr P, Jaquet V, Joles JA, Kalyanaraman B, Kaminskyy D, Karbaschi M, Kleanthous M, Klotz LO, Korac B, Korkmaz KS, Koziel R, Kračun D, Krause KH, Křen V, Krieg T, Laranjinha J, Lazou A, Li H, Martínez-Ruiz A, Matsui R, McBean GJ, Meredith SP, Messens J, Miguel V, Mikhed Y, Milisav I, Milković L, Miranda-Vizuete A, Mojović M, Monsalve M, Mouthuy PA, Mulvey J, Münzel T, Muzykantov V, Nguyen ITN, Oelze M, Oliveira NG, Palmeira CM, Papaevgeniou N, Pavićević A, Pedre B, Peyrot F, Phylactides M, Pircalabioru GG, Pitt AR, Poulsen HE, Prieto I, Rigobello MP, Robledinos-Antón N, Rodríguez-Mañas L, Rolo AP, Rousset F, Ruskovska T, Saraiva N, Sasson S, Schröder K, Semen K, Seredenina T, Shakirzyanova A, Smith GL, Soldati T, Sousa BC, Spickett CM, Stancic A, Stasia MJ, Steinbrenner H, Stepanić V, Steven S, Tokatlidis K, Tuncay E, Turan B, Ursini F, Vacek J, Vajnerova O, Valentová K, Van Breusegem F, Varisli L, Veal EA, Yalçın AS, Yelisseyeva O, Žarković N, Zatloukalová M, Zielonka J, Touyz RM, Papapetropoulos A, Grune T, Lamas S, Schmidt HHHW, Di Lisa F, Daiber A. (2017) European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS). *Redox Biol.* 13: 94-162.
- 11.** **Chondrogianni N.**, Voutetakis K., Kapetanou M., Delitsikou V., Papaevgeniou N., Sakellari M., Lefaki M., Filippopoulou K. and Gonos E.S. (2015) Proteasome activation: An innovative promising approach for delaying aging and retarding age-related diseases. *Ageing Res. Rev.* 23 (Pt A): 37-55. **(co-corresponding author)**

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- 12. Chondrogianni N.,** Sakellari M., Lefaki M., Papaevgeniou N., Gonos E.S. (2014) Proteasome activation delays aging *in vitro* and *in vivo*. *Free Radical Biol. Med.* 71: 303-320. **(corresponding author)**
- 13.** Papaevgeniou N., **Chondrogianni N.** (2014) The ubiquitin proteasome system in *Caenorhabditis elegans* and its regulation. *Redox Biol.* 2: 333-347.
- 14. Chondrogianni N.,** Petropoulos I., Grimm S., Georgila K., Catalgol B., Friguet B., Grune T., Gonos E.S. (2014) Protein damage, repair and proteolysis. *Mol. Aspects Med.* 35: 1-71. **(co-corresponding author)**
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**4.** Ranti D., Gioran A. and **Chondrogianni N.** (2021) Autophagy in aging and oxidative stress. In Chondrogianni N., Pick E. and Gioran A (Eds) Proteostasis and Proteolysis: A volume in the Oxidative Stress and Disease book series, CRC Press, Taylor & Francis Group. 46: 151-166

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**Metrics (up to 26/01/2024)**

<b>COMMUNICATIONS</b>	
National congresses	57
International congresses	165
Total	222
<b>PUBLICATIONS</b>	
Experimental publications	41
Reviews	21
Chapters in books	10
Editorial	4
Total	76
Articles in preparation	3
<b>CITATIONS (up to 26/01/2024)</b>	
Citations by third parties	3298
Self-citations	417
Total	3715 (Scopus)
	5159 (Google Scholar)
<b>OTHER INFORMATION</b>	
Total impact factor (JCR 2021)	466.917
h-index	31 (Scopus) 35 (Google Scholar)