

Niki Chondrogianni, Ph.D.

## Niki Chondrogianni

Researcher B'

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### **Education**

**2004:** Ph. D. in Biology, University of Athens, Department of Biology, in collaboration with the National Hellenic Research Foundation

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

**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.* (National Hellenic Research Foundation)

### **Academic Appointments**

**05/2013- present** : Research Associate Professor, National Hellenic Research Foundation, Institute of Biology, Medicinal Chemistry and Biotechnology (renamed to Institute of Chemical Biology in 2019)

**10/2009- 04/2013** : Research Assistant Professor, National Hellenic Research Foundation, Institute of Biological Research and Biotechnology (renamed to Institute of Biology, Medicinal Chemistry and Biotechnology in 2012)

**2004 - 2009** : Post doctoral studies/Research associate, National Hellenic Research Foundation, Institute of Biological Research and Biotechnology

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

**1999-2000** : Research fellow, National Hellenic Research Foundation, Institute of Biological Research and Biotechnology

**1998-1999** : Research fellow, Université Denis Diderot - Paris7, Laboratoire de Biologie et Biochimie Cellulaire du Vieillissement, France

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

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### **Professional Training**

- 2009** : 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, France
- 2001** : Scientific training/Visiting fellow/ Qualification in gel filtration analysis and immunoprecipitation, University of Bristol, Laboratory of Biochemistry (Proteasomes and intracellular proteolysis), 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, France
- Project:** *Differences of the proteasome in early and late passage WI38 cells by using 2D-electrophoresis*
- 1997-98** : Research fellow, National Hellenic Research Foundation, Molecular and Cellular Ageing Laboratory, Greece

### **Teaching and supervision experience**

1. Laboratory courses:
  - Undergraduate students (Department of Biology, University of Athens, 2002-2004)
  - Postgraduate students (Master of Science Program "Biological Applications in Medicine", Department of Biology, University of Athens, 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 Program "Educational Biology and Novel technologies", Department of Biology, University of Athens, Biology II Course 2011-2017
4. Lectures in Master of Science Program "Bioinformatics", Department of Biology, University of Athens, Molecular Biology and Genomics Course 2011-present
5. Lectures in Master of Science Program "Biological Applications in Medicine", Department of Biology, University of Athens, 2012-present

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6. Lectures in Master of Science Program "Molecular and Applied Physiology", Department of Medicine, University of Athens, 2012-present
7. Lab supervisor of: **BSc thesis** [Ms Anna Gioran (2009-2010)]  
**PhD thesis** [Ms Suzanne Kapeta (2005-2010), Ms Eirini Balantinou (2005-2010), Ms Mirella Sakellari (2012- present), Ms Marianna Kapetanou (2012- 2017)]  
**Trainees/Visitors** [Dr. Valerie Vanhooren (2009), Dr. Kosara Smiljanic (2011)]
8. Supervisor of: **BSc thesis** [Mr Apostolos Petsas (2018-present)]  
**Master thesis** [Ms Mirella Sakellari (2011-2012), Ms Nikoletta Papaevgeniou (2012-2013), Ms Konstantina Philippopoulou (2013-2014), Ms Anna Paraskevopoulou (2014-2016), Ms Efthimia Giosa (2016- 2019), Ms Fotini Aktypi (2018-2019)]  
**PhD thesis** [Ms Maria Lefaki (2012-present), Ms Nikoletta Papaevgeniou (2013-present), Ms Eleni Panagiotidou (2018-present), Ms Mary Vasilopoulou (2019-present), Ms Sofia Lagoumtzi (2019-present), Mr Yiorgos Paikopoulos (2020-present), Ms Dimitra Ranti (2020-present)]  
**Post-doctoral studies** [Dr. Ioannis Ninios (2012-2014), Dr. Anna Gioran (2019-present)]  
**Trainees/Visitors** [Ms Justyna Sobich (2014), Mr Dimitris Draganidis (2016, 2018), Ms Fotini Aktipi (2017), Mr Antonio Pellín Carcelén (2017-2018)]

### Honors and Awards

1. **Award of best poster presentation**, 70th National Conference of Hellenic Society of Biochemistry and Molecular Biology, Athens, Greece, 2019
2. **Award of poster presentation**, The Society of Free Radical Research - Europe 2018 Conference, Lisbon, Portugal, 2018
3. **Award of 2nd best poster communication**, The Society of Free Radical Research - Europe 2016 Conference, Budapest, Hungary, 2016
4. **Award of best poster communication**, EMBO Conference "Molecular chaperones: From molecules to cells and misfolding diseases", Crete, Greece, 2015
5. **Award of best poster communication**, The Society of Free Radical Research - Europe 2014 Summer School, Spetses, Greece, 2014
6. **Award of best oral communication**, 64th National Conference of Hellenic Society of Biochemistry and Molecular Biology, Athens, Greece, 2013
7. **Award of best poster communication**, The Society of Free Radical Research - Europe 2013 Conference, Athens, Greece, 2013

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8. **7<sup>th</sup> Catherine Pasquier Award 2011**, SFRR-Europe meeting, Istanbul, Turkey 2011
9. **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
10. **Award of best oral presentation**, 7<sup>th</sup> Annual Meeting of Hellenic Research Club for Connective Tissue and Matrix Biology, Patras, Greece, 2005
11. **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
12. **Award of poster presentation "Cancer and Ageing award"**, Society for Free Radical Research (SFRR)-European Section, Ioannina, Greece, 2003

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

1. **Member of the editorial board of Annals of the New York Academy of Sciences**, Molecular Mechanisms and Models of Aging Vol. 1119 for the 12th Congress of the International Association of Biomedical Gerontology (IABG) Spetses, Greece 2007
2. **Guest editor of Mechanisms of Ageing and Development (MAD) Special Issue** on "Molecular aspects of aging and longevity", 2018

### **Patents**

1. Gonos E.S., **Chondrogianni N.** and Chinou I. (2009) "Anti-ageing 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
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, Bioinspired proteasome activators with antiageing activity

### **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

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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. Mrs Nikoletta Papaevgeniou, "Study of the effects of lipofuscin and AGEs in the progression of aging", 12/2016-05/2018, **Empeirikion Foundation**
2. Mrs Eleni Panagiotidou, "Study of the induction effects of proteostasis mechanisms in aging and age-related diseases", 10/2019- 3/2022, **Hellenic Foundation of Research and Innovation (HFRI)**

#### **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

#### **Society board memberships**

- Member of the Board of the "Society of Free Radicals Research-Europe" (elected, 2010-2014)

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

- Biogerontology
- World Journal of Biological Chemistry
- Journal of Gerontology & Geriatric Research
- Redox Biology
- Biofactors

#### **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 Thesis**

1. "Characterization of proteasome assembly in psoriatic skin and during keratinocyte differentiation in vitro- role of the proteasome maturation protein (POMP)"

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supported by Mrs. Barbara Agnieszka Zieba, CNRS, Université de Montpellier, Montpellier, France, 2016

2. "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

3. "Modulation of FoxO signalling by glutathione" supported by Mr. Dimitrios Tsitsipatis, Jena University, Faculty of Biology and Pharmacy, Jena, Germany, 2017

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

1. "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

2. "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 2020 Summer School**, "Redox alterations and cellular responses: From signalling to interventions", Spetses, Greece, 2020

2. Co-organizer of **the COST Action CA16113 – CliniMARK Summer School**, "Omics Approaches for Biomarker Discovery and Validation", Spetses, Greece, 2019

3. 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

4. Chair of **Proteolysis Symposium 2018**, Athens, Greece, 2018

5. 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

6. Member of Organizing Committee of **MAESTRO-Thales project workshop: Systems Biology approaches of cellular aging mechanisms**, Patras, Greece, 2014

7. Co-organizer of **the Society of Free Radical Research-Europe 2014 Summer School**, "Biochemical Basis of healthy ageing", Spetses, Greece, 2014

8. Member of the Organizing Committee of **the 64<sup>th</sup> National Conference of Hellenic Society of Biochemistry and Molecular Biology**, Athens, Greece, 2013

9. 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

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10. Member of Organizing Committee of **COST CM1001** linked to **The Society of Free Radical Research - Europe 2013 Conference**, Athens, Greece, 2013
11. Member of the Organizing/Scientific Committee of **The Society of Free Radical Research-Europe 2013 Conference**, Athens, Greece, 2013
12. 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
13. Co-organizer of **the Society of Free Radical Research-Europe 2012 Summer School**, Spetses, Greece, 2012
14. Member of Organizing Committee for **Young Investigators Symposium of the Society of Free Radical Research-Europe 2011**, Istanbul, Turkey, 2011
15. Member of Organizing Committee of **the 7<sup>th</sup> National Conference of Society for Free Radical Research (SFRR)-National Section**, Spetses, Greece, 2010
16. Member of Organizing Committee of **the Society of Free Radical Research-Europe 2010 Summer School**, Spetses, Greece, 2010
17. Member of Organizing Committee of the **3<sup>rd</sup> Swedish-Hellenic Life Science Research Conference**, Athens, Greece, 2010
18. Member of Organizing/Scientific Committee of the **8<sup>th</sup> FEBS Young Scientists Forum (YSF)** Athens, Greece, 2008
19. 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", 2020-2021, Total Budget: 45.500 Euros, Lab budget: 41.500, Role: Coordinator-Principal Investigator
2. **Algometric** "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", 2019-2021, 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: Mrs Eleni Panagiotidou, "Study of the induction

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- 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, Total Budget: 665.403 Euros, Lab budget: 170.665 Euros, Role: Principal Investigator/Member of NHRF Workgroup
  7. **STHENOS** 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: Mrs 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



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- “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 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.

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

1. **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

#### **Team members**

**Past members:** Ms Mirella Sakellari (M.Sc. thesis 2011-2012), Ms Nikoletta  
Papaevgeniou (M.Sc. thesis 2012-2013), Ms Maria Lefaki (Ph.D. thesis 2012- present,  
preparing her PhD defense), Dr. Ioannis Ninios (postdoctoral fellow 2012-2014), Ms

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Konstantina Philippopoulou (M.Sc. thesis 2013-2014), Ms Anna Paraskevopoulou (M.Sc. thesis 2014-2016), Ms Efthimia Giosa (2016- 2019), Ms Fotini Aktypi (M.Sc. thesis 2018-2019)

**Present members:** Dr. Anna Gioran (postdoctoral fellow 2019-present), Ms Nikoletta Papaevgeniou (Ph.D. thesis 2013-present, preparing her PhD defense), Ms Eleni Panagiotidou (2018-present), Ms Mary Vasilopoulou (2019-present), Ms Sofia Lagoumtzi (2019-present), Mr Yiorgos Paikopoulos (2020-present), Ms Dimitra Ranti (2020-present), Ms Fotini Aktypi (Research associate 2020-present), Mr Apostolos Petsas (BSc thesis 2018-present)]

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

1. **Cell Death: Degeneration and Regeneration Symposium**, Istanbul, Turkey, 2019 "Modulation of aging and stress resistance through dietary and chemical compounds"
2. **COST CLINIMARK TRAINING SCHOOL Approaches for Biomarker Discovery and Validation**, Spetses, Greece, 2019 "Biomarkers of ageing"
3. **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)"
4. **Department of Pharmacy, University of Athens**, Athens, Greece, 2019, "The UPS system as a target in cosmetology and pharmacology"
5. **Department of Biochemical Sciences, Sapienza University of Rome**, Rome, Italy 2019, "Effects of Proteasome Modulation in Ageing and Age-Related Diseases"
6. **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"
7. **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"
8. **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"
9. **The Fourteenth International Symposium on Neurobiology and Neuroendocrinology of Aging**, Bregenz, Austria, 2018 "Diet-derived compounds in the battle against ageing and protein aggregation"
10. **DHI Academy Masters Meeting 2018**, Athens, Greece "Carbonylated proteins in hair follicles: An update"
11. **3rd Conference Analytical methods to study oxidative damage, antioxidants and drugs**, Advanced analytical chemistry for life sciences, Bialystok,

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- Poland 2018 "Proteasome activation through diet-derived compounds in the battle against ageing and protein aggregation"
12. **DIfE, German Institute of Human Nutrition, Potsdam-Rehbruecke**, Potsdam, Germany 2018 "Diet-derived compounds in the battle against ageing and protein aggregation"
  13. **ProMoAge – Protein Modification: A Key Mechanism for Ageing Retreat**, Oppurg, Germany, 2017 "Diet-derived compounds in the battle against ageing and protein aggregation"
  14. **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"
  15. **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"
  16. **International Symposium: Modulating Ageing/Anti-ageing: from molecular biology to clinical perspectives**, Halle (Saale), Germany 2017 "Proteasome modulation as an anti-ageing and anti-aggregation strategy"
  17. **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"
  18. **DHI Academy Masters Meeting 2017**, Sounio, Greece "Carbonylated proteins in hair follicles: A new research approach"
  19. **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"
  20. **ZOMES IX PCI complexes and ubiquitin defining a hub for protein homeostasis**, Rome, Italy 2017 "Proteasome manipulation as an anti-ageing and anti-aggregation strategy"
  21. **CNRS, Université de Montpellier**, Seminar, Montpellier, France 2016 "Proteasome activation as a preventive or therapeutic approach against aging and aggregation"
  22. **3rd PROTEOSTASIS Action Meeting**, Proteostasis and its Biological Implications, Lisbon, Portugal 2016 "Proteasome activation as an anti-ageing and anti-aggregation strategy"
  23. **The Society of Free Radical Research-Europe 2016 Summer School**, Spetses, Greece 2016 "Proteasome manipulation against aging and aggregation"

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24. **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"
25. **SFRR-E/SNFS Meeting Stuttgart 2015**, Stuttgart, Germany, 2015 "The pivotal role of proteasome enhancement in ageing, longevity and proteostasis across species"
26. **SFBBM, 7<sup>ème</sup> Colloque Protéolyse Cellulaire**, Sète, France, 2015 "Proteasome activation and its crucial role in longevity and proteostasis across species"
27. **MAESTRO-Thales project workshop: Systems Biology approaches of cellular aging mechanisms**, Patras, Greece, 2014 "The dynamic interconnection between proteasome and ageing"
28. **The Society of Free Radical Research - Europe 2014 Summer School**, Spetses, Greece, 2014 "Nrf2 regulation in health and disease"
29. **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"
30. **The Society of Free Radical Research - Europe 2012 Summer School**, Spetses, Greece, 2012 "Nrf2-signalling and redox balance"
31. **The Society of Free Radical Research - Europe 2012 Summer School**, Spetses, Greece, 2012 "Overview of the proteasome-basic knowledge"
32. **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"
33. **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"
34. **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"
35. **Seminars at DZNE-Bonn-Cologne-Jülich**, Bonn, Germany, 2012, "Dynamic interplay between proteasome and ageing/cellular senescence"
36. **SFRR-Europe 2011 meeting**, Istanbul, Turkey, 2011 "Proteasome and aging: A dynamic interplay" **Special Lecture: 7<sup>th</sup> Catherine Pasquier Award Lecture**
37. **The Society of Free Radical Research Meeting**, Oslo, Norway, 2010 "The proteasome as a target in anti-aging"
38. **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"

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39. **3<sup>rd</sup> Swedish-Hellenic Life Science Research Conference**, Athens, Greece, 2010 "The proteasome as target in anti-aging"
40. **WhyWeAge: A European road map for molecular Biogerontology, Biomarkers of Ageing and Longevity**, Athens, Greece, 2010 "Proteasome as an anti-ageing target"
41. **11<sup>th</sup> National Conference of Gerontology and Geriatrics**, Athens, Greece, 2010 "The proteasome as a target in anti-aging"
42. **University of Namur-FUNDP/URBC**, Namur, Belgium, 2009 "Proteasome and Cellular Ageing"
43. **6<sup>th</sup> National Conference of Clinical Chemistry**, Athens, Greece, 2006 "Free radicals and ageing: the crucial role of proteasome"
44. **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"
45. **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 17/01/2020)

Total number: 184 (National conferences: 48, International conferences: 136)

#### Publications in refereed journals

1. 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.
2. 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.
3. 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

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production and direct functional screening of expanded molecular libraries for discovering inhibitors of protein aggregation. *Sci Adv.* 5(10): eaax5108.

4. Sakellari M., **Chondrogianni N.**, Gonos E.S. (2019) Protein synthesis inhibition induces proteasome assembly and function. *Biochem Biophys Res Commun.* 514: 224-230.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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)**
11. 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)**
12. **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**

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**author)**

13. 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)**

14. 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.

15. 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.

16. **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)**

17. 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)**

18. 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.

19. 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.

20. 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.

21. **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)**

22. 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.

23. **Chondrogianni N.** and Gonos E.S. (2007) Overexpression of hUMP1/POMP proteasome accessory protein enhances proteasome-mediated antioxidant defence. *Exp. Gerontol.* 42: 899-903.

24. 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

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confers lifespan extension of human embryonic fibroblasts. *Rejuvenation Res.* 10: 157-172.

25. 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.

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

27. **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.

28. 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.

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

30. **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.

31. 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.

32. **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. 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.
2. 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.



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3. 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.
4. Lefaki M., Papaevgeniou N. and **Chondrogianni N.** (2017) Redox regulation of proteasome function. *Redox Biology* 13: 452-458.
5. 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, Kaminsky 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, Yelisyeyeva 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.
6. **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)**
7. **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)**
8. Papaevgeniou N., **Chondrogianni N.** (2014) The ubiquitin proteasome system in *Caenorhabditis elegans* and its regulation. *Redox Biol.* 2: 333-347.

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9. **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)**
10. Aldini G, Vistoli G, Stefek M, **Chondrogianni N**, Grune T, Sereikaite J, Sadowska-Bartosz I, Bartosz G. (2013) Molecular strategies to prevent, inhibit and degrade advanced glycoxidation and advanced lipoxidation end products. *Free Radic Res.* 47 Suppl 1:93-137.
11. **Chondrogianni N.** and Gonos E.S. (2010) Proteasome function determines cellular homeostasis and the rate of aging. *Adv. Exp. Med. Biol.* 694: 38-46.
12. **Chondrogianni N.** and Gonos E.S. (2008) Proteasome activation as a novel anti-aging strategy. *IUBMB Life* 60: 651-655.
13. **Chondrogianni N.** and Gonos E.S. (2005) Proteasome dysfunction and mammalian aging: involved steps and factors. *Exp. Gerontol.* 40: 931-938.
14. **Chondrogianni N.**, Fragoulis E.S. and Gonos E.S. (2002) Protein degradation during aging: the lysosome-, the calpain- and the proteasome-dependent cellular proteolytic systems. *Biogerontology* 3: 121-123.
15. Friguet B., Bulteau A-L., **Chondrogianni N.**, Conconi M. and Petropoulos I. (2000) Protein degradation by the proteasome and its implication in ageing. *Ann. N. Y. Acad. Sci.* 908: 143-154.
16. Petropoulou C., **Chondrogianni N.**, Simoes D., Agiostratidou G., Drosopoulos N., Kotsota V. and Gonos E.S. (2000) Ageing and longevity: A paradigm of complementation between genetic control and failure of homeostasis? *Ann. N. Y. Acad. Sci.* 908: 133-142.

### **Proceedings of International Conferences**

1. Papaevgeniou N., Hoehn A., Grune T., **Chondrogianni N.** (2018) Lipofuscin-mediated alterations effects on organismal ageing. *Free Radic Biol Med.* 120 Suppl 1: S78-S79. Proceedings of the 19th Biennial Meeting of the Society-for-Free-Radical-Research-International (SFRR), Lisbon, Portugal
2. **Chondrogianni N.** (2017) Proteasome activators as diet constituents: a promising strategy against aging and aggregation. *Free Radic Biol Med.* 108 Suppl 1: S6-S7. Proceedings of the OCC World Congress / Annual SFRR-E Conference Location: Berlin, Germany
3. Papaevgeniou N., Hoehn A., Grune T., **Chondrogianni N.** (2017) Lipofuscin effects in *Caenorhabditis elegans* ageing model. *Free Radic Biol Med.* 108 Suppl 1: S48-S48. Proceedings of the OCC World Congress / Annual SFRR-E Conference Location: Berlin, Germany
4. Fatouros I.G., Draganidis D., **Chondrogianni N.**, Jamurtas A.Z., Chatzinikolaou A., Terzis G., Sovatzidis A., Protopappa M., Papanikolaou K., Avloniti A. (2016). Protein

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- supplementation alters redox-status and proteasomic activity following aseptic inflammation induced by exercise. *Free Radic Biol Med.* 96 Suppl 1: S42-S42. Proceedings of the Conference of the Society-for-Free-Radical-Research-Europe (SFRR-E) Location: Budapest, Hungary
5. **Chondrogianni N.** (2015) The pivotal role of proteasome enhancement in ageing, longevity and proteostasis across species. *Free Radic Biol Med.* 86 Suppl 1: S12-S12. Proceedings of the SFRR-E/SNFS Conference Location: Stuttgart, Germany
  6. Lefaki M., Chatzinikolaou G., Andoniade C., Garinis G., **Chondrogianni N.** (2015) Investigation of the crosstalk between proteasome function and nucleotide excision repair mechanism during ageing. *Free Radic Biol Med.* 86 Suppl 1: S5-S6. Proceedings of the SFRR-E/SNFS Conference Location: Stuttgart, Germany
  7. Georgila K.; **Chondrogianni N.**; Kourtis N.; Tavernarakis N, Gonos E.S. (2014) Enhanced proteasome degradation extends *Caenorhabditis elegans* lifespan and ameliorates neurodegeneration. *FEBS J.* 281 Suppl 1: 243. Proceedings of the FEBS EMBO 2014 Conference, Paris, France
  8. Kapetanou M., **Chondrogianni, N.**, Gonos S. (2014) Study of the role of the proteasome in senescence of stem cells. *FEBS J.* 281 Suppl 1: 249, Proceedings of the FEBS EMBO 2014 Conference, Paris, France
  9. Georgila K, Voutetakis K, Delitsikou V, **Chondrogianni N**, Gonos ES. (2014) Optimization of in vitro measurement of proteasome activity in mammalian cells using fluorogenic substrates. *Free Radic Biol Med.* 75 Suppl 1:S31. Proceedings of the SFRR-E 2014 Conference, Paris, France
  10. **Chondrogianni N**, Georgila K, Kourtis N, Tavernarakis N, Gonos Efstathios S. (2014) Enhanced proteasome degradation extends *Caenorhabditis elegans* lifespan and alleviates aggregation-related pathologies. *Free Radic Biol Med.* 75 Suppl 1:S18. Proceedings of the SFRR-E 2014 Conference, Paris, France
  11. Skretas G., Delivoria D., Matis I., Papaevgeniou N., **Chondrogianni N.** (2014) Engineering bacteria for the discovery of potential therapeutic compounds against protein misfolding diseases. *New Biotech.* 31, Suppl S: S12-S13. Proceedings of the 16th European Congress on Biotechnology, 2013, Edinburgh, United Kingdom.
  12. Aldini G., **Chondrogianni N.**, Grune T., Sadowska-Bartosz I., Sereikaite J., Stefek M., Vistoli G., Bartoszn G. (2013) Strategies to prevent post-translational protein modifications. *Free Radic Biol Med.* 65 Suppl 1:S11. Proceedings of the SFRR-E 2013 Conference, Athens, Greece
  13. Georgila K., **Chondrogianni N.**, Kourtis N., Tavernarakis N. and Gonos E. (2013) Enhanced proteasome degradation extends *Caenorhabditis elegans* lifespan and ameliorates neurodegeneration. *Free Radic Biol Med.* 65 Suppl 1:S32. Proceedings of the SFRR-E 2013 Conference, Athens, Greece

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14. Papaevgeniou N., Sakellari M., Gonos E.S. and **Chondrogianni N.** (2013) Study of the effects of natural compounds in the lifespan of the nematode *Caenorhabditis elegans*. *Free Radic Biol Med.* 65 Suppl 1:S41. Proceedings of the SFRR-E 2013 Conference, Athens, Greece
15. Zampeli V., Shakibaei M., Makrantonaki E., Tzellos T., Fimmel S., **Chondrogianni N.**, Gonos E.S., Zouboulis C.C. (2011) Involvement of fibroblasts in adipose tissue development. *Exp. Dermatology* 20: 165-166. Proceedings of the 38th Annual Meeting of the Arbeitsgemeinschaft-Dermatologischche-Forschung, Tuebingen, Germany
16. Kapeta S., **Chondrogianni N.**, Sisoula C., Gonos E.S. (2010) Proteasomal activation by Nrf2 extends lifespan in human fibroblasts. *FEBS J.* 277 Suppl 1 :285. Proceedings of the 35th Congress of the Federation-of-European-Biochemical-Societies, Gothenburg, Sweden
17. Balantinou E., Trougakos I.P., **Chondrogianni N.**, Gonos E.S. (2009) Transcriptional and post-translational regulation of clusterin/apolipoprotein J by the two main cellular proteolytic pathways. *FEBS J.* 276: 358-359, Proceedings of the 34th Congress of the Federation-of-European-Biochemical-Societies Location: Prague, Czech Republic
18. **Chondrogianni N.**, Chinou I., Vassilatou K, Gonos E.S. (2009) Identification of natural compounds that promote proteasome activation and confer lifespan extension. *PLANTA MEDICA* 75: 940. Proceedings of the 55th International Congress and Annual Meeting of the Society-for-Medicinal-Plant-Research-and-Natural-Product-Research, Geneva, Switzerland
19. Catalgol B., Ziaja I., Breusing N., Jung T., Hohn A., Alpertunga B., Schroeder P., **Chondrogianni N.**, Gonos E.S., Petropoulos I., Friguet B., Klotz L.O., Grune T., Krutmann J. (2009) The proteasome is an integral part of the signaling cascade leading to solar UVA-induced gene expression. *J Invest. Dermatology* 129: S129. Proceedings of the 69th Annual Meeting of the Society-of-Investigative-Dermatology, Montreal, Canada
20. Graikou K., Aligiannis N., **Chondrogianni N.**, Kapeta S., Gonos E.S., Chinou I. (2008) Chemical analysis and anti-aging properties of Greek pollen. *PLANTA MEDICA* 74: 1101-1102. Proceedings of the 7th Joint Meeting of the Association-Francophone-pour-l'Enseignement-et-la-Recherche-en-Pharmacognosie/American-Society-of-Pharmacognosy/Society-for-Medicinal-Plant-Research/Phytochem-Society-of-Europe/Societa-Italiana-di-Fitochimica, Athens, Greece
21. Balantinou E., Trougakos I.P., **Chondrogianni N.**, Gonos E.S. (2008) Multiple levels of clusterin regulation following proteasome and lysosome inhibition. *FEBS J* 275 Suppl 1: 208. Proceedings of the Joint Conference of the 33rd FEBS Congress/11th IUBMB Conference Location: Athens, Greece

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22. Kapeta S., **Chondrogianni N.**, Gonos, E.S. (2008) Identification of natural compounds that promote proteasome activation and induce lifespan extension. FEBS J 275 Suppl 1: 209. Proceedings of the Joint Conference of the 33rd FEBS Congress/11th IUBMB Conference Location: Athens, Greece
23. **Chondrogianni N.**, Trougakos I.P., Kletsas D., Gonos E.S. (2008) Partial proteasome inhibition triggers p53-dependent premature senescence. FEBS J 275 Suppl 1: 445. Proceedings of the Joint Conference of the 33rd FEBS Congress/11th IUBMB Conference Location: Athens, Greece
24. **Chondrogianni N.**, Trougakos I.P., Gonos E.S. (2007) The role of proteasome manipulation on cellular senescence, stress response and longevity. FEBS J 274 Suppl 1: 219. Proceedings of the 32nd Congress of the Federation-of-European-Biochemical-Societies (FEBS), Vienna, Austria
25. **Chondrogianni N.**, Gonos E.S. (2006) The effects of proteasome manipulation in ageing, survival and longevity. FEBS J 273 Suppl 1: 308. Proceedings of the 31st Congress of the Federation-of-European-Biochemical-Societies (FEBS) Location: Istanbul, Turkey
26. **Chondrogianni N.**, Gonos E.S. (2005) Overexpression of proteasome beta 5 subunit increases amount of assembled proteasome and confers ameliorated response to oxidative stress and higher survival rates. FEBS J 272 Suppl 1: 151. Proceedings of the IUBMB 50th Anniversary Symposium Location: Budapest, Hungary
27. **Chondrogianni N.**, Trougakos I.P., Stratford F.L.L., Friguet B., Rivett A.J., Gonos E.S. (2003) Central role of the proteasome in senescence and survival of human fibroblasts. Free Radic Res 37 Suppl 1: 112. Proceedings of the Meeting on Free Radicals and Oxidative Stress Location: Ioannina, Greece

#### **Proceedings of National Conferences**

1. Filippopoulou K., Papaevgeniou N., Papadodima O., Pilalis E., Hamodrakas S., Chatziioannou A. and **Chondrogianni N.** (2014) Bioinformatics analysis of a set of transcription microarray data related to the ageing and Alzheimer's disease progression using *Caenorhabditis elegans* as a model system, Proceedings of the 9th conference of the Hellenic Society for Computational Biology & Bioinformatics HSCBB14 –Athens, Greece

#### **Chapters in books**

1. **Chondrogianni N.**, Vasilopoulou M.A., Kapetanou M., Gonos E.S. (2020) Proteasome Modulation: A Way to Delay Aging? In: Rattan, S.I.S. (Ed.), Encyclopedia of Biomedical Gerontology. Elsevier. vol. 3, Academic Press, pp. 92–104.

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2. Panagiotidou E. and **Chondrogianni N.** (2020) We are what we eat: ubiquitin-proteasome system (UPS) modulation through dietary products. *Accepted*
3. Papaevgeniou N. and **Chondrogianni N.** (2016) UPS activation in the battle against aging and aggregation-related diseases: An extended review. In: Rune Matthiesen (ed.), *Proteostasis: Methods and Protocols*, Methods in Molecular Biology, vol. 1449, pp.1-70 Springer Science+Business Media New York, USA
4. **Chondrogianni N.** and Gonos E.S. (2012) The Proteasomal System in Aging and Disease: Structure and Function of the Ubiquitin-Proteasome System: Modulation of components. In Grune's Progress in Molecular Biology and Translational Science (M. Conn, ed.) vol. 109, pp. 41–74 Elsevier, USA.
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