

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

Website: <https://www.eie.gr/anthropino-dynamiko/niki-chondrogianni/>



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 lab, Greece
Project: *Molecular mechanisms of proteasome activation*

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

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

Niki Chondrogianni, Ph.D.

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 lab, Greece

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

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

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

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 labo, 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)
- Postgraduate students (Master of Science Program "Biological Applications in Medicine", Department of Biology, NKUA, 2002-2014)

Niki Chondrogianni, Ph.D.

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)
 - g) "Cosmetology-Dermopharmacology", Department of Pharmacy, NKUA (2019-present)
 - h) "Athens International Master's Programme in Neurosciences", Department of Biology, NKUA (2022-present)
 - i) "Biological Applications in Medicine", Molecular Biology: Systemic and in silico approaches course, Department of Biology, NKUA (2023)
 - j) "Development of new drugs: research, launch and access", Medical School of Athens, NKUA (2024-present)
7. Lab supervisor of: **1 BSc thesis, 4 PhD theses, 2 Trainees/Visitors**
8. Supervisor of: **2 BSc thesis, 7 Master theses, 1 Bibliographical Master thesis, 4 PhD theses, 5 Research associates, 4 Post-doctoral fellows, 6 Trainees/Visitors, 2 Erasmus placement**

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)

Niki Chondrogianni, Ph.D.

- The dietary triterpenoid 18 α -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 functional screening of expanded molecular libraries for discovering inhibitors of protein aggregation. *Sci. Adv.* 5.
 - 9. Award of best poster presentation,** 70th 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,** 64th 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,** 7th 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),** 55th 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

Niki Chondrogianni, Ph.D.

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 16th -19th 2017, Athens, Greece) by Gonos E.S., **Chondrogianni N.**, Djordjevic A.M.

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 α -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®) **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. Dr. Anna Gioran, 2023, **SFRR-E ECR fellowship**

2. Ms Eleni Panagiotidou, 2019-2022, **Hellenic Foundation of Research and Innovation (HFRI)**

3. Mrs Eleni Panagiotidou, 2019, declined by the Fellow to accept the HFRI scholarship, **Empeirikion Foundation**

Niki Chondrogianni, Ph.D.

4. Ms Dimitra Ranti, 2022, declined by the fellow, Hellenic Foundation of Research and Innovation (HFRI)

5. Ms Nikoletta Papaevgeniou, 2016-2018, 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

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

Niki Chondrogianni, Ph.D.

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. "NRF2 at the intersection of redox imbalance and stress granule dynamics in amyotrophic lateral sclerosis" supported by Mr José Jiménez Villegas, Autonomous University of Madrid, Madrid, Spain, 2025
2. "Epigenetic and Metabolic Modulators of Aging: Insights into Histone Chaperone UNC-85 and Folate Receptor FOLR-1 in *Caenorhabditis elegans*" supported by Mr Bideep Shrestha, University of Helsinki, Helsinki, Finland (Pre-examiner), 2025
3. "An in vitro characterization of the bioenergetic effects of a phytosome-based coenzyme Q10 Formulation as a potential treatment for Troyer Syndrome" supported by Mr Nicola Rizzardi, Bologna University, Bologna, Italy, 2024
4. "Bone biomineralization in osteosarcoma: a multimodal Multiscale in/ex vivo study through synchrotron-Based x-ray and NMR techniques" supported by Ms Francesca Rossi, Bologna University, Bologna, Italy, 2024
5. "Alternative strategies to improve intranasal and nose-to-brain drug delivery" supported by Ms Elisa Corazza, Bologna University, Bologna, Italy, 2024
6. "Exploring the effect of RAD51/BRCA2 inhibition to pursue synthetic lethality with PARPi in in-vitro models of pancreatic cancer" supported by Ms Laura Poppi, Bologna University, Bologna, Italy, 2024
7. "Are senescent cells common features of Alzheimer's disease and sleep apnea?" supported by Ms. Laureline Urli, B2A - Institut Biologie Paris Seine – Sorbonne University, 2024
8. "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
9. "Modulation of FoxO signalling by glutathione" supported by Mr. Dimitrios Tsitsipatis, Jena University, Faculty of Biology and Pharmacy, Germany, 2017
10. "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
11. "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

Niki Chondrogianni, Ph.D.

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. Member of the Organizing Committee of **the Fourth Annual Meeting of the ProteoCure COST Action**, Heraklion, Greece, 2025
2. 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, 2024
3. Member of the Organizing Committee of **the 11th International Conference on Oxidative Stress in Skin Medicine and Biology**, Andros, Greece, 2024
4. Member of the Organizing Committee of **the 73rd National Conference of the Hellenic Society of Biochemistry and Molecular Biology**, Athens, Greece, 2023
5. Member of the Organizing Committee of the **Chemical Biology Workshop: Drug & Biomarker Discovery**, Athens, Greece, 2023
6. 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
7. Member of the Organizing Committee of **the 10th International Conference on Oxidative Stress in Skin Medicine and Biology**, Andros, Greece, 2022

Niki Chondrogianni, Ph.D.

- 8.** Member of the Organizing Committee of the **9th International Conference on Oxidative Stress in Skin Medicine and Biology**, Andros, Greece, 2021 (virtual meeting)
- 9.** Co-organizer of the **COST Action CA16113 – CliniMARK Summer School**, “Omics Approaches for Biomarker Discovery and Validation”, Spetses, Greece, 2019
- 10.** 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
- 11.** 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)]
- 12.** Member of the Organizing Committee of the **Final COST Action BM1307 Meeting** “Proteostatic Mechanisms in Health and Disease”, Athens, Greece, 2018
- 13.** 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
- 14.** Member of Organizing Committee of **MAESTRO-Thales project workshop: Systems Biology approaches of cellular aging mechanisms**, Patras, Greece, 2014
- 15.** Co-organizer of the **Society of Free Radical Research-Europe 2014 Summer School**, “Biochemical Basis of healthy ageing”, Spetses, Greece, 2014
- 16.** Member of the Organizing Committee of the **64th National Conference of Hellenic Society of Biochemistry and Molecular Biology**, Athens, Greece, 2013
- 17.** 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
- 18.** Member of Organizing Committee of **COST CM1001** linked to **The Society of Free Radical Research - Europe 2013 Conference**, Athens, Greece, 2013
- 19.** Member of the Organizing/Scientific Committee of **The Society of Free Radical Research-Europe 2013 Conference**, Athens, Greece, 2013
- 20.** 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
- 21.** Co-organizer of the **Society of Free Radical Research-Europe 2012 Summer School**, Spetses, Greece, 2012
- 22.** Member of Organizing Committee for **Young Investigators Symposium of the Society of Free Radical Research-Europe 2011**, Istanbul, Turkey, 2011
- 23.** Member of Organizing Committee of the **7th National Conference of Society for Free Radical Research (SFRR)-National Section**, Spetses, Greece, 2010

Niki Chondrogianni, Ph.D.

- 24.** Member of Organizing Committee of **the Society of Free Radical Research-Europe 2010 Summer School**, Spetses, Greece, 2010
- 25.** Member of Organizing Committee of the **3rd Swedish-Hellenic Life Science Research Conference**, Athens, Greece, 2010
- 26.** Member of Organizing/Scientific Committee of the **8th FEBS Young Scientists Forum (YSF)** Athens, Greece, 2008
- 27.** Member of Scientific Committee of **12th Congress of the International Association of Biomedical Gerontology (IABG)** Spetses, Greece 2007

Funded Research Projects

- 1. Health Hub** "Healthcare and Pharmaceutical Industry Transformation through Artificial Intelligence Digital Services" (coordinator: Institute of Entrepreneurship Development). 2024-2027, Total Budget: 2.915.857 €, Lab budget: 90.950 €, Role: Principal Investigator
- 2. 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 €, Lab budget: 41.500 €, Role: Coordinator-Principal Investigator
- 3. 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 €, Lab budget: 45.000 €, Role: Principal Investigator
- 4. ProMiDis** ERC Consolidator Grant "A unified drug discovery platform for protein misfolding diseases" (coordinator: Dr. G. Skretas), 2019-2024, Total Budget: 1.972.000 €, Role: Workgroup member/co-supervisor of task 6 (*C. elegans*)
- 5. 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 €, Lab budget: 26.100 €, Role: Coordinator-Principal Investigator
- 6. 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 €, Lab budget: 210.000 €, Role: Principal Investigator
- 7. RESET** "Bioinspired antiaging proteasome activators" (coordinator: INTERMED) Program "Competiveness and Entrepreneurship"-Erevno-Dimiourgo-Kainotomo, 2018-2021, Total Budget: 665.403 €, Lab budget: 170.665 €, Role: Principal Investigator/Member of NHRF Workgroup

Niki Chondrogianni, Ph.D.

8. STHENOS- β 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 €, Lab budget: 22.000 €, Role: Partner

9. 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 €, Lab budget: 9.000 €, Role: Coordinator-Principal Investigator

10. 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 €, Lab budget: 18.000 €, Role: Coordinator-Principal Investigator

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

12. 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 €, Lab budget: 22.000 €, Role: Partner

13. 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 €, Lab budget: 120.000 €, Role: Member of NHRF Workgroup

14. 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 €, Lab budget: 132.500 €, Role: Principal Investigator

15. 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 €, Lab budget: 71.400 €, Role: Principal Investigator

16. 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 €, Lab budget: 10.000 €, Role: Coordinator-Principal Investigator

Niki Chondrogianni, Ph.D.

17. CMST COST Action CM1001 "Chemistry of non-enzymatic protein modification – modulation of protein structure and function" (coordinator: Dr. T. Grune) (2010-2014) (MC Substitute Member) Personal budget: Depending on the training activities and the meetings to be attended.

18. 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.

19. 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.

20. 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.

21. 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.

22. 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.

23. 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: 36.325 €, 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 €, Role: Coordinator-Principal Investigator

Invited lectures at congresses and societies: 68 (up to 16/9/2025)

Invited public lectures

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

Niki Chondrogianni, Ph.D.

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 (up to 16/9/2025)

Total number: 235 (National conferences: 57, International conferences: 178)

Publications in refereed journals

1. Gioran A, **Chondrogianni N.** (2025) Guidelines for the measurement of oxygen consumption rate in *Caenorhabditis elegans*. *Redox Biol.* 85: 103723.
2. Gkikas G., Katsiris D., Vitsos A., Gioran A., Ieronymaki D., Kostaki M., Ladopoulos G., Ioannidou V., Theodoraki E., **Chondrogianni N.**, Sfiniadakis I., Papaioannou G.T. and Rallis M.C. (2024) Comparative Study of Cutaneous Squamous Cell Carcinogenesis in Different Hairless Murine Models. *Cancers.* 16: 3546.
3. Ersoy U., Altinpinar A.E., Kanakis I., Alameddine M., Gioran A., **Chondrogianni N.**, Ozanne S.E., Peffers M.J., Jackson M.J., Goljanek-Whysal K., Vasilaki A. (2024) Lifelong dietary protein restriction induces denervation and skeletal muscle atrophy in mice. *Free Rad Biol Med.* 224: 457-469.
4. Gioran A., Paikopoulos Y., Panagiotidou E., Rizou A.E.I., Nasi G.I., Dimaki V.D., Vrila K.D., Bezantakou D.S., Spatharas P.M., Papandreou N.C., Magafa V., Lamari F.M., Iconomidou V.A., **Chondrogianni N.** (2024) Beneficial effects of *Sideritis clandestina* extracts and sideridiol against Amyloid β toxicity. *Antioxidants* 13: 261.
5. 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.
6. Rizou A.E.I., Nasi G.I., Paikopoulos Y., Bezantakou D.S., Vrila 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.
7. 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.
8. Draganidis D., Jamurtas A.Z., **Chondrogianni N.**, Mastorakos G., Jung T., Grune T., Papadopoulos C., Papanikolaou K., Papassotiriou I., Papaevgeniou N., Poullos A., Batrakoulis, A., Deli CK., Georgakouli K., Chatzinikolaou A., Karagounis LG., Fatouros IG. (2021) Low-grade systemic inflammation interferes with anabolic and catabolic

Niki Chondrogianni, Ph.D.

characteristics of the aged human skeletal muscle. *Oxid. Med. Cell. Longev.* 8376915: 1-14.

9. 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.

10. 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.

11. 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., Terzibasi 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)

12. 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.

13. 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)

14. 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.

15. Lefaki M., Papaevgeniou N., Tur J.A., Vorgias C.E., Sykiotis G.P., **Chondrogianni N.** (2019) The dietary triterpenoid 18 α -Glycyrrhetic acid protects from MMC-induced genotoxicity through the ERK/Nrf2 pathway. *Redox Biol.* 28: 101317.

16. 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.

17. Sakellari M., **Chondrogianni N.**, Gonos E.S. (2019) Protein synthesis inhibition induces proteasome assembly and function. *Biochem Biophys Res Commun.* 514: 224-230.

Niki Chondrogianni, Ph.D.

- 18.** 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.
- 19.** 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.
- 20.** 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.
- 21.** 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.
- 22.** 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.
- 23.** 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)**
- 24.** Papaevgeniou N., Sakellari M., Jha S., Tavernarakis N., Holmberg C.I., Gonos E.S and **Chondrogianni N.** (2016) 18 α - 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)**
- 25.** **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)**
- 26.** 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)**

Niki Chondrogianni, Ph.D.

- 27.** 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.
- 28.** Graikou K., Kapeta S., Aligiannis N., Sotiroidis 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.
- 29. 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)**
- 30.** 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)**
- 31.** 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.
- 32.** 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.
- 33.** 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.
- 34. 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)**
- 35.** 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.
- 36. Chondrogianni N.** and Gonos E.S. (2007) Overexpression of hUMP1/POMP proteasome accessory protein enhances proteasome-mediated antioxidant defence. *Exp. Gerontol.* 42: 899-903.
- 37.** 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.
- 38.** 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.

Niki Chondrogianni, Ph.D.

- 39. 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.
- 40. 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.
- 41.** 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.
- 42. Chondrogianni N.** and Gonos E.S. (2004) Proteasome inhibition induces a senescence-like phenotype in primary human fibroblasts cultures. *Biogerontology* 5: 55-61.
- 43. 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.
- 44.** 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.
- 45. 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.** Buttari B., Tramutola A., Rojo A.I., **Chondrogianni N.,** Saha S., Berry A., Giona L., Miranda J.P., Profumo E., Davinelli S., Daiber A., Cuadrado A., Di Domenico F. (2025) Proteostasis decline and redox imbalance in age-related diseases: The Therapeutic Potential of Nrf2. *Biomolecules* 15(1):113.
- 2.** 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.
- 3.** 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.
- 4.** Vasilopoulou MA., Ioannou E., Roussis V. and **Chondrogianni N.** (2021) Modulation of the ubiquitin-proteasome system by marine natural products. *Redox Biol.* 41:101897.

Niki Chondrogianni, Ph.D.

5. Gioran A. and **Chondrogianni N.** (2020) Mitochondria (cross)talk with proteostatic mechanisms; focusing on ageing and neurodegenerative diseases. *Mech. Ageing. Dev.* 190:111324.
6. 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.
7. Paunkov A., Chartoumpekis 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.
8. 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.
9. 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.
10. Lefaki M., Papaevgeniou N. and **Chondrogianni N.** (2017) Redox regulation of proteasome function. *Redox Biology* 13: 452-458.
11. 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, Ilıkay 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-Vizueté 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

Niki Chondrogianni, Ph.D.

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.

12. 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)**

13. 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)**

14. Papaevgeniou N., **Chondrogianni N.** (2014) The ubiquitin proteasome system in *Caenorhabditis elegans* and its regulation. *Redox Biol.* 2: 333-347.

15. 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)**

16. 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.

17. Chondrogianni N. and Gonos E.S. (2010) Proteasome function determines cellular homeostasis and the rate of aging. *Adv. Exp. Med. Biol.* 694: 38-46.

18. Chondrogianni N. and Gonos E.S. (2008) Proteasome activation as a novel anti-aging strategy. *IUBMB Life* 60: 651-655.

19. Chondrogianni N. and Gonos E.S. (2005) Proteasome dysfunction and mammalian aging: involved steps and factors. *Exp. Gerontol.* 40: 931-938.

20. 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.

21. 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.

22. 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. Gioran A., Panagiotidou E., **Chondrogianni N.** (2025) Proteasome activation against protein aggregation in ageing and Alzheimer's disease, *Free Radic Biol Med.* 233: S10.

Niki Chondrogianni, Ph.D.

2. Gioran A., Zoidakis I., **Chondrogianni N.** (2024) Proteasome activation increases lifespan through mitohormesis and UPRER activation, *Free Radic Biol Med.* 218: S11.
3. **Chondrogianni N.** (2023) Proteasome activation and the secrets of anti-aging. *Free Radic Biol Med.* 201: S1.
4. Paikopoulos Y., Panagiotidou E., Gioran A., Dimaki V.D., Iconomidou V., Lamari F.N., **Chondrogianni N.** (2022) Identification of compounds derived from the Greek flora with anti-aggregation properties. *Free Radic Biol Med.* 189: S110-S111.
5. Gioran A. and **Chondrogianni N.** (2022) Proteasome activation in *C. elegans* causes mild mitochondrial defects; Is this the link to lifespan extension? (2022) *Free Radic Biol Med.* 189: S115.
6. Vasilopoulou M.A., Fotopoulou T., Papaevgeniou N., Gioran A., Papahatjis D., Calogeropoulou T., Koufaki M. and **Chondrogianni N.** (2021) A novel bioinspired proteasome activator against aging. *Free Radic Biol Med.* 177: S122-S123.
7. Gioran A. and **Chondrogianni N.** (2021) Proteasome activation in *C. elegans* engages UPRmt. *Free Radic Biol Med.* 177: S64.
8. Gkikas G., Katsiris D., Kostaki M., Ladopoulos G., Ieronymaki D., Theodoraki E., Ioannidou V., Vitsos A., **Chondrogianni N.**, Gioran A., Sfiniadakis I., Papaioannou G.T., Rallis M. (2021) Skin carcinogenesis mouse models. *Free Radic Biol Med.* 177: S113.
9. Papaevgeniou N., Fotopoulou T., Vasilopoulou M., Panat N., Pick E., Golan A., Gonos E.S., Papahatjis D., Calogeropoulou T., Koufaki M., **Chondrogianni N.** (2019) A novel bioinspired proteasome activator: potential anti-ageing strategies offered by mother nature (but not only). *Free Radic Biol Med.* 139 Suppl 1: S78-S79
10. Kirkpatrick J.M., Sacramento E.K., Mazzetto M., Di Sanzo S., Caterino C., Bartolome A., Sanguanini M., Papaevgeniou N., Lefaki M., Childs D., Terzibasi-Tozzini E., Romanov N., Baumgart M., Huber W., **Chondrogianni N.**, Vendruscolo M., Cellerino A., Ori A. (2019) Reduced proteasome activity in the aging brain results in ribosome stoichiometry loss and aggregation. *Mol. Cell. Proteomics* 18: S35
11. Papaevgeniou N., Panagiotidou E., Filippopoulou K., **Chondrogianni N.** (2019) Quest for bioactive compounds in our diet with anti-ageing and anti-aggregation properties. *Proceedings* 11: 34, *Proceedings of Natural Products and the Hallmarks of Chronic Diseases—COST Action 16112*, Luxemburg
12. 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
13. **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*, Berlin, Germany

Niki Chondrogianni, Ph.D.

- 14.** 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, Berlin, Germany
- 15.** Fatouros I.G., Draganidis D., **Chondrogianni N.**, Jamurtas A.Z., Chatzinikolaou A., Terzis G., Sovatzidis A., Protopappa M., Papanikolaou K., Avloniti A. (2016). Protein 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), Budapest, Hungary
- 16.** **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, Stuttgart, Germany
- 17.** 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, Stuttgart, Germany
- 18.** 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
- 19.** 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
- 20.** 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
- 21.** **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
- 22.** 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.
- 23.** Aldini G., **Chondrogianni N.**, Grune T., Sadowska-Bartoszn G., Sereikaite J., Stefek M., Vistoli G., Bartoszn G. (2013) Strategies to prevent post-translational protein

Niki Chondrogianni, Ph.D.

modifications. *Free Radic Biol Med.* 65 Suppl 1: S11. Proceedings of the SFRR-E 2013 Conference, Athens, Greece

24. 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

25. 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

26. Zampeli V., Shakibaei M., Makrantonaki E., Tzellos T., Fimmel S., **Chondrogianni N.**, Gonos ES., 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

27. 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

28. 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, Prague, Czech Republic

29. **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

30. 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

31. 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

Niki Chondrogianni, Ph.D.

32. 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, Athens, Greece

33. 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, Athens, Greece

34. **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, Athens, Greece

35. **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

36. **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), Istanbul, Turkey

37. **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, Budapest, Hungary

38. **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, 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. Panagiotidou E, Gioran A, **Chondrogianni N.** (2023) Antioxidants as modulators of the ubiquitin-proteasome system against aging and proteinopathies. In Saso L.,

Niki Chondrogianni, Ph.D.

Giuffrè A., Valacchi G. and Maccarrone M. (Eds), Modulation of Oxidative Stress: Biochemical, Physiological and Pharmacological Aspects, 1-16

2. Panagiotidou E, Gioran A, **Chondrogianni N.** (2023) In-Plate and In-Gel Assays for the Assessment of Proteasome Activity in *Caenorhabditis elegans*. *Methods Mol Biol.* 2023;2602:217-228.

3. Chountoules, M., Naziris, N., Gioran, A., Papagiannopoulos, A., Steele, B., Michascretas, M., Stavrinides, S., Hantias, M., **Chondrogianni, N.***, Pispas, S.*, Arbez-Gindre, C.*, Demetzos, C. (2022) Applications of Nanotechnology in Alzheimer's Disease. In Vlamos P., Kotsireas I.S. and Tarnanas I. (Eds) *Handbook of Computational Neurodegeneration*, Meteor (* co-corresponding author)

4. Vasilopoulou M.A, Papaevgeniou N. and **Chondrogianni N.** (2021) Proteasome fate in aging and proteinopathies. 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: 225

5. 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

6. **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.

7. 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

8. **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.

9. Gonos E.S. Trougakos I.P., and **Chondrogianni N.** (2008) Aging Research in Greece. In: Palmore, E., Whittington, F. and Kunkel, S. (eds): *The International Handbook of Aging: current research and development*. pp 249-257, Praeger Publishers, Connecticut, USA.

10. **Chondrogianni N.**, Chinou I. and Gonos E.S. (2008) Anti-aging properties of the olive constituent oleuropein in human cells. In: V.R. Preedy and R.R. Watson (eds): *Olives and olive oil in Health and Disease Prevention*. Oxford: Academic Press, 2010, pp. 1335-1343.

11. Trougakos I.P., **Chondrogianni N.**, Pimenidou A., Katsiki M., Tzavelas C. and Gonos E.S. (2003) Slowing down cellular ageing *in vitro*. S.I.S. Rattan (ed): *Modulating Aging and Longevity* 65-83 Kluwer Academic Publishers.

Niki Chondrogianni, Ph.D.

Editorials

- 1.** Pfirrmann T., **Chondrogianni N.**, Olzscha H., Vasilaki A. (2021) Dysregulated Protein Homeostasis in the Aging Organism, *Frontiers in Molecular Biosciences* Special Issue
- 2.** **Chondrogianni N.**, Pick E., Gioran A. (2021) Preface. 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.
- 3.** Gonos E.S., **Chondrogianni N.**, Djordjevic A.M. (2019) Where ageing goes nowadays: mechanisms, pathways, biomarkers and anti-ageing strategies. *Mech.Ageing and Dev.* 177: 1-3.
- 4.** Gonos E.S., Trougakos I.P. and **Chondrogianni N.** (2007) Preface. *Ann. N. Y. Acad. Sci.* 1119: xi-xii.

Monographs

- 1.** **Chondrogianni N.** (2004) PhD thesis. Study of the molecular mechanisms of regulation of ageing and longevity. Department of Biology, National and Kapodistrian University of Athens.

Niki Chondrogianni, Ph.D.

Metrics (up to 24/10/2025)

COMMUNICATIONS	
National congresses	57
International congresses	178
Total	235
PUBLICATIONS	
Experimental publications	45
Reviews	22
Chapters in books	11
Editorial	4
Total	82
Articles in preparation	3
CITATIONS (up to 24/10/2025)	
Citations by third parties	3975
Self-citations	435
Total	4410 (Scopus)
	6190 (Google Scholar)
OTHER INFORMATION	
Total impact factor (JCR 2021)	426.222
h-index	33 (Scopus) 36 (Google Scholar)