

CURRICULUM VITAE

1. PERSONNAL INFORMATION

Name Eleni Mavrogonatou
Place of birth Athens
Date of birth 23 May 1979
Work address NCSR “Demokritos”
Institute of Biosciences and Applications
Laboratory of Cell Proliferation and Ageing
Patriarchou Grigoriou & Neapoleos, Agia Paraskevi
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2. EDUCATION-RESEARCH ACTIVITY-PROFESSIONAL EXPERIENCE

1998 – 2003 National and Kapodistrian University of Athens
Department of Biology
Bachelor’s degree
Grade: Very Good
2004 – 2009 NCSR “Demokritos”
Institute of Biosciences and Applications
Laboratory of Cell Proliferation and Ageing
Ph.D. Thesis supervised by Dr. D. Kletsas entitled: “Effect of hyperosmotic stress on the proliferation and senescence of intervertebral disc cells”
Ph.D. degree in Biology
Department of Biology
National and Kapodistrian University of Athens
Grade: Distinction
2010 – 2018 NCSR “Demokritos”
Institute of Biosciences and Applications
Laboratory of Cell Proliferation and Ageing
Post-doctoral research on the molecular mechanisms leading to cellular senescence and on cellular responses to stress
2018 – today NCSR “Demokritos”
Institute of Biosciences and Applications
Laboratory of Cell Proliferation and Ageing
Researcher

3. SPECIAL EDUCATION

2008 – 2009 University of Manchester
Faculty of Life Sciences
Distance learning MSc on Bioinformatics
Module: “Introduction to Bioinformatics”

2010 – 2011 Grade: Distinction
University of Manchester
Faculty of Life Sciences
Distance learning MSc on Bioinformatics
Module: “Introduction to Microarray Data Analysis”
Grade: Distinction

3. SEMINARS-WORKSHOPS

2004 Mid-term EURODISC Workshop: Intervertebral Disc Degeneration-Interplay of Age, Environmental and Genetic Factors (June 25-26)
Institute of Orthopaedic Research and Biomechanics, Ulm, Germany

2011 Workshop on Functional and Structural Proteomics, Hellenic Pasteur Institute (October 6-7)

2012 2nd Summer School on Proteins, National and Kapodistrian University of Athens, Department of Biology (May18-20)

2013 3rd Summer School on Proteins, National and Kapodistrian University of Athens, Department of Biology (June 27-29)

2013 Workshop on programming visual prototypes with Java and Processing.org - 8th Conference of the Hellenic Society for Computational Biology and Bioinformatics, Lamia (November 22)

2013 Workshop on gene expression and functional annotation using microarrays - 8th Conference of the Hellenic Society for Computational Biology and Bioinformatics, Lamia (November 22)

2015 FEBS Workshop on Molecular Life Science Education, Hellenic Pasteur Institute (October 9-10)

2015 1st workshop on animals’ housing and breeding for the users of the NCSR “Demokritos” Animal House, NCSR “Demokritos” (December 4)

2018 2nd workshop on animals’ housing and breeding for the users of the NCSR “Demokritos” Animal House, NCSR “Demokritos” (March 26)

2018 Educational seminars on “Microscopy Techniques: Theory and applications”, NCSR “Demokritos” (October 11-November 1)

5. GRANTS-FELLOWSHIPS

2003 – 2008 Fellow at the Institute of Biology of NCSR “Demokritos” for doctoral research

2008 Grant for the attendance of the 33rd FEBS Congress & 11th IUBMB Conference (June 28-July 3, 2008), Athens, Greece by the Hellenic Society of Biochemistry and Molecular Biology

2016 Grant for the attendance of the 16th Young Scientists’ Forum (August 31-September 3, 2016) and of the 41st FEBS Congress (September 3-8, 2016), Kuşadası, Turkey by the Federation of European Biochemical Societies [*Congresses have been cancelled*]

2018 Postdoctoral researcher fellowship for the participation in the project “New bioactive compounds with anticancer/antioxidant action from marine

cyanobacteria cohabitating with sponges” (Program “Support of Researchers with emphasis on young Researchers”)

6. AWARD NOMINATIONS AND AWARDS

- 2011 Special poster, winner of Medtronic poster award: **Mavrogonatou E.** and Kletsas D. “High osmolality reduces the proliferation rate of nucleus pulposus intervertebral disc cells, negatively regulates their response to exogenous growth factors and activates an enhanced DNA repair mechanism”. The 38th ISSLS (International Society for the Study of the Lumbar Spine) Annual Meeting (June 14-18, 2011), Gothenburg, Sweden
- 2014 Special poster, nominated for best poster award: **Mavrogonatou E.**, Papadopoulos V., Urban J. and Kletsas D. “Transcriptional changes in nucleus pulposus intervertebral disc cells due to high osmolality, as revealed by cDNA microarray analysis”. The 41st ISSLS (International Society for the Study of the Lumbar Spine) Annual Meeting (June 3-7, 2014), Seoul, Korea

7. PARTICIPATION IN RESEARCH PROJECTS

1. **Intervertebral disc degeneration: interplay of age, environmental and genetic factors (EURODISC). European Commission - “Quality of Life” RTD Project.** Coordinator Dr. J. Urban-Scientific responsible from the Greek side: Dr. D. Kletsas (EU-funded)
2. **Senescence of intervertebral disc cells.** Scientific responsible: Dr. D. Kletsas (Funded by the AO Research Foundation, Switzerland)
3. **Living Bioreactor – Growing a new joint in a human back (MyJoint, EU FP7 NEST project). European Commission - “Quality of Life” RTD Project.** Coordinator Prof. Patrick Warnke- Scientific responsible from the Greek side: Dr. D. Kletsas (EU-funded)
4. **Genodisc - Disc-degeneration linked pathologies: novel biomarkers and diagnostics for targeting treatment and repair (GENODISC, EU FP7-HEALTH-2007-A).** Coordinator Dr. J. Urban-Scientific responsible from the Greek side: Dr. D. Kletsas (EU-funded)
5. **From Biodiversity to Chemodiversity: Novel Plant Produced Compounds with Agrochemical and Cosmetic interest (AgroCos, EU FP7-KBBE-2009-3).** Coordinator Prof. A.L. Skaltsounis-Scientific responsible from NCSR “Demokritos” side: Dr. D. Kletsas (EU-funded)
6. **Intracellular cross-talk between ER α / β , EGF and IGF receptors in development and progression of breast cancer: functional properties, expression of matrix macromolecules, proteasome activity and induction of EMT (BioCancerTalk - THALES Project).** Coordinator Prof. N.K. Karamanos-Scientific responsible from NCSR “Demokritos” side: Dr. D. Kletsas (funded by the Greek General Secretariat for Research and Technology)
7. **Bioactive Natural Products of Marine-derived Actinobacteria from East Mediterranean Deep-sea Sediments (ARISTEIA Project).** Coordinator Prof. V. Roussis (funded by the Greek General Secretariat for Research and Technology)
8. **Application of green technology on the development of cosmetic products with high added value based on Greek flora (Synergasia Project).** Coordinator KORRES Natural

Products-Scientific responsible from NCSR “Demokritos” side: Dr. D. Kletsas (funded by the Greek General Secretariat for Research and Technology)

9. **Identification of targets for disease diagnosis and prevention (KRIPIS Project).** Coordinator Dr. E. Tsilibary (funded by the Greek General Secretariat for Research and Technology)
10. **Matrix glycans as multifunctional pathogenesis factors and therapeutic targets in cancer (GLYCAN, EU H2020-MSCA-RISE-2014).** Coordinator Prof. Martin Götter-Scientific responsible from NCSR “Demokritos” side: Dr. D. Kletsas (EU-funded)
11. **New bioactive compounds with anticancer/antioxidant action from marine cyanobacteria cohabitating with sponges (“Support of Researchers with emphasis on young Researchers”).** Academic advisor Prof. S. Gelis (funded by the European Union and National Resources)

8. OTHER SCIENTIFIC ACTIVITIES

1. Member of the Organizing Committee of the 22nd European Tissue Repair Society Meeting (4-5 October 2012, Athens, Greece)
2. Member of the Junior Committee in the 23rd European Tissue Repair Society Meeting - Stem cells and Regenerative Medicine (23-25 October 2013, Reims, France)
3. President of the Organizing Committee of the 3rd Panhellenic Forum of Young Scientists of the Hellenic Society of Biochemistry and Molecular Biology (10 December 2015, Athens, Greece)

9. MEMBER OF SCIENTIFIC SOCIETIES

1. Member of the Hellenic Society of Biochemistry and Molecular Biology
2. Member of the European Tissue Repair Society
3. Member of the Hellenic Society for Computational Biology and Bioinformatics

10. COMPUTER SKILLS

1. Microsoft Office (Word, Excel, PowerPoint)
2. Bioinformatics computational packages (Elementary skills in programming with R, protein and nucleic acid sequence analysis)

11. LANGUAGES

Greek (native), **English**, **French**

12. PUBLISHED WORK

A. PH.D. THESIS

- A.1 **Mavrogonatou E.** (2009) Study on the effect of hyperosmotic stress on the proliferation and senescence of intervertebral disc cells

B. PUBLICATIONS IN PEER-REVIEWED SCIENTIFIC JOURNALS

- B.1 Taoufik K., **Mavrogonatou E.**, Eliades T., Papagiannoulis L., Eliades G and Kletsas D. (2008) “Effect of blue light on the proliferation of human gingival fibroblasts”. *Dental Materials* 2008 Jul;24(7):895-900 (IMPACT FACTOR 2008: **2.941**)
- B.2 **Mavrogonatou E.** and Kletsas D. “High osmolality activates the G1 and G2 cell cycle checkpoints and affects the DNA integrity of nucleus pulposus intervertebral disc cells triggering an enhanced DNA repair response”. *DNA Repair (Amst)* 2009 Aug 6;8(8):930-43 (IMPACT FACTOR 2009: **4.199**)
- B.3 **Mavrogonatou E.** and Kletsas D. “Effect of varying osmotic conditions on the response of bovine nucleus pulposus cells to growth factors and the activation of the ERK and Akt pathways”. *Journal of Orthopaedic Research* 2010 October;28(10):1276-82 (IMPACT FACTOR 2010: **2.976**)
- B.4 **Mavrogonatou E.**, Eliades T., Eliades G. and Kletsas D. “The effect of triethylene glycol dimethacrylate on p53-dependent G2 arrest in human gingival fibroblasts”. *Biomaterials* 2010 Nov;31(33):8530-8 (IMPACT FACTOR 2010: **7.882**)
- B.5 **Mavrogonatou E.** and Kletsas D. “Differential response of nucleus pulposus intervertebral disc cells to high salt, sorbitol and urea”. *Journal of Cellular Physiology* 2012 Mar;227(3):1179-1187 (IMPACT FACTOR 2012: **4.218**)
- B.6 Papadimitriou K., Ferreira S., Papandreou N.C., **Mavrogonatou E.**, Supply P., Pot B. and Tsakalidou E. “Complete genome sequence of the dairy isolate *Streptococcus macedonicus* ACA-DC 198”. *Journal of Bacteriology* 2012 Apr;194(7):1838-9 (IMPACT FACTOR 2012: **3.194**)
- B.7 **Mavrogonatou E.** and Kletsas D. “The effect of glucosamine sulfate on the proliferative potential and glycosaminoglycan synthesis of nucleus pulposus intervertebral disc cells”. *Spine (Phila Pa 1976)* 2013 Feb 15;38(4):308-14 (IMPACT FACTOR 2013: **2.447**)
- B.8 Papadimitriou K., Anastasiou R., **Mavrogonatou E.**, Ferreira S., Papandreou N., Hamodrakas S., Renault P., Supply P., Pot B. and Tsakalidou E. “Comparative genomics of the dairy isolate *Streptococcus macedonicus* ACA-DC 198 against related members of the *Streptococcus bovis*/*Streptococcus equinus* complex”. *BMC Genomics* 2014 Apr 8;15(1):272 (IMPACT FACTOR 2014: **3.986**)

- B.9 Neidlinger-Wilke C., Galbusera F., Pratsinis H., **Mavrogonatou E.**, Mietsch A., Kletsas D. and Wilke H-J. “Mechanical loading of the intervertebral disc-from the macroscopic to the cellular level”. *European Spine Journal* 2014 Jun;23 Suppl 3:S333-43 (IMPACT FACTOR 2014: **2.066**)
- B.10 Armatas A.A., Pratsinis H., **Mavrogonatou E.**, Angelopoulou M.T., Kouroumalis A., Karamanos N.K. and Kletsas D. “The differential proliferative response of fetal and adult human skin fibroblasts to TGF- β is retained when cultured in the presence of fibronectin or collagen”. *Biochimica et Biophysica Acta-General Subjects* 2014 Aug;1840(8):2635-42 (IMPACT FACTOR 2014: **4.381**)
- B.11 **Mavrogonatou E.**, Angelopoulou M.T. and Kletsas D. “The catabolic effect of TNF α on bovine nucleus pulposus intervertebral disc cells and the restraining role of glucosamine sulfate in the TNF α -mediated up-regulation of MMP-3”. *Journal of Orthopaedic Research* 2014 Dec;32(12):1701-7 (IMPACT FACTOR 2014: **2.986**)
- B.12 Dimozi A., **Mavrogonatou E.**, Sklirou A. and Kletsas D. “Oxidative stress inhibits the proliferation, induces premature senescence and promotes a catabolic phenotype in human nucleus pulposus intervertebral disc cells” (*Anastasia Dimozi, Eleni Mavrogonatou and Aimilia Sklirou have equally contributed to this work). *European Cells & Materials* 2015 Sep 4;30:89-103 (IMPACT FACTOR 2015: **4.560**)
- B.13 **Mavrogonatou E.**, Papadimitriou K., Urban J.P., Papadopoulos V. and Kletsas D. “Deficiency in the $\alpha 1$ subunit of Na⁺/K⁺-ATPase enhances the anti-proliferative effect of high osmolality in nucleus pulposus intervertebral disc cells”. *Journal of Cellular Physiology* 2015 Dec;230(12):3037-48 (IMPACT FACTOR 2015: **4.155**)
- B.14 Liakou E., **Mavrogonatou E.**, Pratsinis H., Rizou S., Evangelou K., Panagiotou P.N., Karamanos N.K., Gorgoulis V. and Kletsas D. “Ionizing radiation-mediated premature senescence and paracrine interactions with cancer cells enhance the expression of syndecan 1 in human breast stromal fibroblasts: the role of TGF- β ” *Aging (Albany NY)* 2016 Aug;8(8):1650-69 (IMPACT FACTOR 2016: **4.867**)
- B.15 Papadimitriou K., **Mavrogonatou E.**, Bolotin A, Tsakalidou E. and Renault P. “Whole genome sequence of the cheese isolate *Streptococcus macedonicus* 679”. *Genome Announcements* 2016 Sep 22;4(5). pii: e01025-16 (IMPACT FACTOR 2016: -)
- B.16 Mennan C., Brown S., McCarthy H., **Mavrogonatou E.**, Kletsas D., Garcia J., Balain B., Richardson J. and Roberts S. “Mesenchymal stromal cells derived from whole human umbilical cord exhibit similar properties to those derived from Wharton's jelly and bone marrow”. *FEBS Open Bio* 2016 Oct 8;6(11):1054-1066 (IMPACT FACTOR 2016: **2.143**)
- B.17 Zilelidou E., Karmiri C.V., Zoumpoulou G., **Mavrogonatou E.**, Kletsas D., Tsakalidou E., Papadimitriou K., Drosinos E. and Skandamis P. “*Listeria monocytogenes* strains underrepresented during selective enrichment with an ISO method might dominate during passage through simulated gastric fluid and *in vitro*

infection of Caco-2 cells”. Applied and Environmental Microbiology 2016 Dec;82(23):6846-6858 (IMPACT FACTOR 2016: **3.807**)

- B.18 Vamvakas S.S., **Mavrogonatou E.** and Kletsas D. “Human nucleus pulposus intervertebral disc cells becoming senescent using different treatments exhibit a similar transcriptional profile of catabolic and inflammatory genes”. European Spine Journal 2017 Aug;26(8):2063-2071 (*Sotiris-Spyros Vamvakas and Eleni Mavrogonatou contributed equally to this work) (IMPACT FACTOR 2017: **2.634**)
- B.19 Santarmaki V., Kourkoutas Y., Zoumpopoulou G., **Mavrogonatou E.**, Kiourtzidis M., Chorianopoulos N., Tassou C., Tsakalidou E., Simopoulos C. and Ypsilantis P. “Survival, intestinal mucosa adhesion, and immunomodulatory potential of *Lactobacillus plantarum* strains”. Current Microbiology 2017 Sep;74(9):1061-1067 (IMPACT FACTOR 2017: **1.373**)
- B.20 Havaki S., Vlachou V., Zampetidis C.P., Selemenakis P., Kotsinas A., **Mavrogonatou E.**, Rizou S.V., Kyrodimos E., Evangelou K., Kletsas D., Giatromanolaki A. and Gorgoulis VG. “Monitoring autophagy immunohistochemically and ultrastructurally during human head and neck carcinogenesis. Relationship with the DNA damage response pathway”. International Journal of Molecular Sciences 2017 Sep 7;18(9). pii: E1920 (IMPACT FACTOR 2017: **3.687**)
- B.21 Georgalaki M., Zoumpopoulou G., **Mavrogonatou E.**, Van Driessche G., Alexandraki V., Anastasiou R., Papadelli M., Kazou M., Manolopoulou E., Kletsas D., Devreese B., Papadimitriou K. and Tsakalidou E. “Evaluation of the antihypertensive angiotensin-converting enzyme inhibitory (ACE-I) activity and other probiotic properties of lactic acid bacteria isolated from traditional Greek dairy products”. International Dairy Journal 2017 Dec;75:10-21 (IMPACT FACTOR 2017: **2.201**)
- B.22 Bonatsou S., Karamouza M., Zoumpopoulou G., **Mavrogonatou E.**, Kletsas D., Papadimitriou K., Tsakalidou E., Nychas G.E. and Panagou E.Z. “Evaluating the probiotic potential and technological characteristics of yeasts implicated in cv. Kalamata natural black olive fermentation”. International Journal of Food Microbiology 2018 Apr 20;271:48-59 (IMPACT FACTOR 2017: **3.451**)
- B.23 Baltzis D., Meimeti E., Grammatikopoulou M.G., Roustit M., **Mavrogonatou E.**, Kletsas D., Efraimidou S., Manes C., Nikolouzakis T.K., Tsiaoussis J., Tsatsakis A.M., Spandidos D.A., Trakatelli C.M. and Drakoulis N. “Assessment of telomerase activity in leukocytes of type 2 diabetes mellitus patients having or not foot ulcer: Possible correlation with other clinical parameters”. Experimental and Therapeutic Medicine 2018 Apr;15(4):3420-3424 (IMPACT FACTOR 2017: **1.410**)
- B.24 Zoumpopoulou G., Tzouvanou A., **Mavrogonatou E.**, Alexandraki V., Georgalaki M., Anastasiou R., Papadelli M., Manolopoulou E., Kazou M., Kletsas D., Papadimitriou K. and Tsakalidou E. “Probiotic features of lactic acid bacteria isolated from a diverse pool of traditional Greek dairy products regarding specific strain-host interactions”. Probiotics and Antimicrobial Proteins 2018 Jun;10(2):313-322 (IMPACT FACTOR

2017: **2.345**)

- B.25 **Mavrogonatou E.**, Konstantinou A. and Kletsas D. “Long-term exposure to TNF- α leads human skin fibroblasts to a p38 MAPK- and ROS-mediated premature senescence in vitro”. *Biogerontology* 2018 Jul;19(3-4):237-249 (IMPACT FACTOR 2017: **3.702**)
- B.26 Hiebert P., Wietecha M.S., Cangkrama M., Haertel E., **Mavrogonatou E.**, Stumpe M., Steenbock H., Grossi S., Beer H.D., Angel P., Brinckmann J., Kletsas D., Dengjel J. and Werner S. “Nrf2-mediated fibroblast reprogramming drives cellular senescence by targeting the matrisome”. *Developmental Cell* 2018 Jul 16;46(2):145-161 (IMPACT FACTOR 2017: **9.616**)
- B.27 Bourkoula A., **Mavrogonatou E.**, Pavli P., Petrou P.S., Douvas A.M., Argitis P., Kletsas D. and Kakabakos S.E. “Guided cell adhesion, orientation, morphology and differentiation on silicon substrates photolithographically micropatterned with a cell-repellent cross-linked poly(vinyl alcohol) film”. *Biomedical Materials* 2018 Oct 26;14(1):014101 (IMPACT FACTOR 2017: **2.897**)
- B.28 Kouroumalis A., **Mavrogonatou E.**, Savvidou O.D., Papagelopoulos P.J., Pratsinis H. and Kletsas D. “Major traits of the senescent phenotype of nucleus pulposus intervertebral disc cells persist under the specific microenvironmental conditions of the tissue”. *Mechanisms of Ageing and Development* 2019 Jan;177:118-127 (IMPACT FACTOR 2017: **3.739**)
- B.29 **Mavrogonatou E.**, Pratsinis H., Papadopoulou A., Karamanos N.K. and Kletsas D. “Extracellular matrix alterations in senescent cells and significance in tissue homeostasis”. *Matrix Biology* 2019 Jan;75-76:27-42 (IMPACT FACTOR 2017: **8.136**)
- B.30 Pratsinis H., **Mavrogonatou E.** and Kletsas D. “Scarless wound healing: From development to senescence”. *Advanced Drug Delivery Reviews* 2018 Apr 12. pii: S0169-409X(18)30063-2 [Epub ahead of print] (IMPACT FACTOR 2017: **13.660**)

C. BOOK CHAPTERS

- C.1 Pratsinis H., **Mavrogonatou E.**, Papadopoulou A. and Kletsas D (2013) Chapter 3: *In Vitro* Assessment of Biocompatibility for Orthodontic Materials. Pages 61-78. In: *Research Methods in Orthodontics-A Guide to Understanding Orthodontic Research*, T. Eliades (ed.), Springer-Verlag, Berlin, Heidelberg
- C.2 Pratsinis H., **Mavrogonatou E.** and Kletsas D. (2017) Chapter 7: TGF- β in Development and Ageing. Pages 127-148. In: *Hormones in Ageing and Longevity*, S. Rattan and R. Sharma (eds.), Springer, Switzerland

D. ABSTRACTS IN CONFERENCES

INTERNATIONAL CONFERENCES

- D.1 **Mavrogonatou E.**, Pratsinis H., Sapkas G., Roberts S., Urban J., Kletsas D. “Senescence of intervertebral disc cells”. XIXth Meeting of the Federation of the European Connective Tissue Societies (July 9-13, 2004), Taormina-Giardini Naxos, Italy
- D.2 Pratsinis H., **Mavrogonatou E.**, Kletsas D. “Proliferative response of intervertebral disc cells to growth factors”. XIXth Meeting of the Federation of the European Connective Tissue Societies (July 9-13, 2004), Taormina-Giardini Naxos, Italy
- D.3 Taoufik K., **Mavrogonatou E.**, Kletsas D., Eliades T., Papagiannoulis L., Eliades G. “Effect of Halogen, Led and Plasma on Human Gingival Fibroblasts”. The 42nd annual meeting of IADR-Continental European and Israeli Divisions (September 26-29, 2007), Thessaloniki, Greece
- D.4 **Mavrogonatou E.** and Kletsas D. “High osmolality activates the G1 and G2 cell cycle checkpoints and affects the DNA integrity of nucleus pulposus intervertebral disc cells triggering an enhanced DNA repair response”. The 33rd FEBS Congress & 11th IUBMB Conference (June 28-July 3, 2008), Athens, Greece
- D.5 **Mavrogonatou E.** and Kletsas D. “High osmolality causes cell cycle arrest and stimulates a p53-mediated DNA damage response in nucleus pulposus intervertebral disc cells”. The 34th FEBS Congress (July 4-9, 2009), Prague, Czech Republic
- D.6 **Mavrogonatou E.** and Kletsas D. “High osmolality reduces the proliferation rate of nucleus pulposus intervertebral disc cells, negatively regulates their response to exogenous growth factors and activates an enhanced DNA repair mechanism”. The 38th ISSLS Annual Meeting (June 14-18, 2011), Gothenburg, Sweden (Special poster, Medtronic poster award)
- D.7 Dimozi A., **Mavrogonatou E.**, Pratsinis H. and Kletsas D. “The role of exogenous stresses on the proliferation of intervertebral disc cells”. World Forum for Spine Research (June 18-21, 2012), Helsinki, Finland
- D.8 Bourkoula A., Pavli P., **Mavrogonatou E.**, Kletsas D., Petrou P., Argitis P. and Kakabakos S. “Selective adhesion and directive growth of fibroblasts on micropatterned substrates for tissue-engineering”. 22nd European Tissue Repair Society Meeting (October 4-5 2012), Athens, Greece (Προφορική παρουσίαση)
- D.9 Pratsinis H., Armatas A., **Mavrogonatou E.**, Gioni V., Karamanos N.K., Syrigos K. and Kletsas D. “Proliferative response of human fetal and adult lung fibroblasts to TGF-β”. 22nd European Tissue Repair Society Meeting (October 4-5 2012), Athens, Greece

- D.10 **Mavrogonatou E.**, Pratsinis H. and Kletsas D. “The response of intervertebral disc cells to exogenous growth factors towards tissue repair and the role of the extracellular osmolality”. 22nd European Tissue Repair Society Meeting (October 4-5 2012), Athens, Greece
- D.11 Mennan C., Owen S., **Mavrogonatou E.**, Kletsas D., Oldershaw R., Richardson J. and Roberts S. “Are umbilical cord mesenchymal stem cells advantageous over bone marrow mesenchymal stem cells for cell therapy in orthopaedics?” OARSI World Congress on Osteoarthritis (April 24-27, 2014), Paris, France
- D.12 **Mavrogonatou E.**, Papadopoulos V., Urban J. and Kletsas D. “Transcriptional changes in nucleus pulposus intervertebral disc cells due to high osmolality, as revealed by cDNA microarray analysis”. The 41st ISSLS (International Society for the Study of the Lumbar Spine) Annual Meeting (June 3-7, 2014), Seoul, Korea (Special poster)
- D.13 Pratsinis H., Armatas A.A., **Mavrogonatou E.**, Angelopoulou M.T., Kouroumalis A., Karamanos N.K. and Kletsas D. “The differential proliferative response of fetal and adult skin fibroblasts to TGF-beta is retained when cultured in the presence of fibronectin or collagen”. The 1st Matrix Biology Europe conference (June 21-24, 2014), Rotterdam, The Netherlands
- D.14 Papadimitriou K., Anastasiou R., **Mavrogonatou E.**, Blom J., Papandreou N.C., Hamodrakas S.J., Ferreira S., Renault P., Supply P., Pot B. and Tsakalidou E. “Milk adaptation and pathogenic potential among members of the *Streptococcus bovis/Streptococcus equinus* complex”. 11th International Symposium on Lactic Acid Bacteria (August 31-September 4, 2014), Egmond aan Zee, The Netherlands
- D.15 Pratsinis H, Armatas A.A., **Mavrogonatou E.**, Angelopoulou M.T., Kouroumalis A., Tsantikidi A., Karamanos N.K. and Kletsas D. “Differential proliferative responses of fetal and adult human skin fibroblasts to TGF-β: Implications for wound healing”. The FEBS EMBO 2014 Conference (August 30-September 4, 2014), Paris, France
- D.16 Zoumpopoulou G., Alexandraki V., Kazou M., Papadelli M., Tzouvanou A., Manolopoulou E., Anastasiou R., Georgalaki M., **Mavrogonatou E.**, Kletsas D., Papadimitriou K. and Tsakalidou E. “Greek traditional dairy and meat products: A biological reservoir for new probiotic strains”. 6th Congress of European Microbiologists (FEMS) (June 7-11, 2015), Maastricht, The Netherlands
- D.17 **Mavrogonatou E.**, Papadimitriou K., Urban J.P., Papadopoulos V. and Kletsas D. “The α1 subunit of Na⁺/K⁺-ATPase is a key component in the osmotic adaptive response of nucleus pulposus intervertebral disc cells”. The 40th FEBS Congress-The Biochemical Basis of Life (July 4-9, 2015), Berlin, Germany
- D.18 Liakou E., Vamvakas S.S., **Mavrogonatou E.**, Panayotou P., Pratsinis H., Karamanos N.K. and Kletsas D. “Prematurely senescent human breast stromal fibroblasts after exposure to ionizing irradiation: Production of extracellular matrix components and

interplay with breast cancer cells”. 5th FEBS Advanced Lecture Course FEBS-MPST 2015 (September 24-29, 2015), Rhodes, Greece

- D.19 Pratsinis H., Armatas A., **Mavrogonatou E.**, Angelopoulou M.T., Kouroumalis A. and Kletsas D. “Role of Extracellular Matrix Components in the proliferative effects of TGF- β on fetal vs. adult human skin fibroblasts”. 7th Joint Meeting of the European Tissue Repair Society & the Wound Healing Society (ETRS-WHS) (October 21-23, 2015), Copenhagen, Denmark
- D.20 Georgalaki M., Zoumpopoulou G., **Mavrogonatou E.**, Van Driessche G., Anastasiou R., Alexandraki V., Kazou M., Papadelli M., Manolopoulou E., Papadimitriou K., Kletsas D., Devreese B. and Tsakalidou E. “Production of bioactive peptides and probiotic potential of lactic acid bacteria isolated from traditional Greek dairy products”. The 2016 International Association for Food Protection (IAFP) European Symposium on Food Safety (May 11-13, 2016) Athens, Greece
- D.21 Zilelidou E., Milina V., Paramithiotis S., Zoumpopoulou G., **Mavrogonatou E.**, Papadimitriou K., Kletsas D., Tsakalidou E. and Skandamis P. “The impact of co-cultivation on growth, expression of virulence genes and *in vitro* virulence potential of *Listeria monocytogenes*”. The 2016 International Association for Food Protection (IAFP) European Symposium on Food Safety (May 11-13, 2016) Athens, Greece
- D.22 Liakou E., **Mavrogonatou E.**, Pratsinis H., Rizou S., Evangelou K., Panagiotou P.N., Karamanos N.K., Gorgoulis V. and Kletsas D. “Ionizing radiation-mediated premature senescence and paracrine interactions with cancer cells enhance the expression of syndecan1 in human breast stromal fibroblasts: the role of TGF- β ”. 2nd Matrix Biology Europe (MBE) Conference (June 11-14, 2016) Athens, Greece
- D.23 Papadopoulou A., Liakou E., **Mavrogonatou E.**, Pratsinis H., Gorgoulis V., Karamanos N. and Kletsas D. “Ionizing radiation-mediated premature senescence of stromal fibroblasts: Implications in tumor development”. 2nd Matrix Biology Europe (MBE) Conference (June 11-14, 2016) Athens, Greece (Invited)
- D.24 Zilelidou E., Milina V., Paramithiotis S., Zoumpopoulou G., **Mavrogonatou E.**, Kletsas D., Tsakalidou E., Papadimitriou K. and Skandamis P. “Co-cultivation affects growth, expression of virulence genes and *in vitro* virulence potential of *Listeria monocytogenes*”. 25th International ICFMH Conference - FoodMicro 2016 (July19-22, 2016) Dublin, Ireland
- D.25 Zilelidou E., Karmiri C., Zoumpopoulou G., **Mavrogonatou E.**, Papadimitriou K., Kletsas D., Tsakalidou E. and Skandamis P. “*Listeria monocytogenes* strains with high survival rates in simulated gastric fluid and increased *in vitro* virulence potential can be underrepresented during selective enrichment with the ISO protocol”. 25th International ICFMH Conference - FoodMicro 2016 (July19-22, 2016) Dublin, Ireland
- D.26 Papadopoulou A., Liakou E., Angelopoulou M., **Mavrogonatou E.**, Pratsinis H., Kletsas D. “Radiation-induced premature senescence of stromal fibroblasts:

Implications in tissue homeostasis". 7th International Conference of Oxidative Stress in Skin Biology and Medicine, September 1-4, 2016, Andros, Greece (Invited)

- D.27 **Mavrogonatou E.** and Kletsas D. "Monitoring the changes of key molecules participating in the osmo-regulatory response of nucleus pulposus intervertebral disc cells during stress-induced senescence". The 41st FEBS Congress (September 3-8, 2016) Kuşadası, Turkey
- D.28 Papadopoulou A., **Mavrogonatou E.**, Liakou E., Pratsinis H., Panagiotou P., Gorgoulis V., Karamanos N. and Kletsas D. "Senescent human breast fibroblasts after exposure to ionizing radiation have an altered proteoglycan expression facilitating tumor progression". The International Cell Senescence Association (ICSA) Conference (May 16-19, 2017), Paris, France (Invited)
- D.29 Vamvakas S.S., **Mavrogonatou E.** and Kletsas D. "Different types of senescence lead to a similar transcriptional regulation of catabolic and inflammatory genes in human intervertebral disc cells". The 44th ISSLS (International Society for the Study of the Lumbar Spine) Annual Meeting (May 29-June 2, 2017), Athens, Greece
- D.30 Kouroumalis A., **Mavrogonatou E.**, Pratsinis H., Savvidou O.D., Papagelopoulos P.J. and Kletsas D. "The effect of the intervertebral disc environment on the specific phenotype of senescent nucleus pulposus cells". The 44th ISSLS (International Society for the Study of the Lumbar Spine) Annual Meeting (May 29-June 2, 2017), Athens, Greece
- D.31 **Mavrogonatou E.**, Papadopoulou A., Liakou E., Pratsinis H., Panagiotou P., Karamanos N., Gorgoulis V. and Kletsas D. "Senescent human stromal fibroblasts after exposure to ionizing radiation have an altered proteoglycan expression facilitating tumour progression". The IUBMB Focused Meeting on "Molecular aspects of Aging and Longevity" (October 16-19, 2017), Athens, Greece (Oral presentation)
- D.32 Angelopoulou M., **Mavrogonatou E.**, Pratsinis H., Rizou S., Gorgoulis V.G. and Kletsas D. "Mechanisms of UVB-mediated cytotoxicity on skin fibroblasts". Scarcon ETRS Congress 2018 (May 31-June 2, 2018), Amsterdam, The Netherlands (Oral presentation)
- D.33 **Mavrogonatou E.**, Papadopoulou A., Pratsinis H., Panagiotou P., Gorgoulis V., Karamanos N., Werner S. and Kletsas D. "Senescent fibroblasts as modulators of tumor microenvironment". FEBS Advanced Lecture Course FEBS-ECM 2018 "Extracellular Matrix: Cell regulation, epigenetics and modeling" (September 27-October 2, 2018), Patras, Greece (Invited)
- D.34 Konstantinou D., Zervou S.K., **Mavrogonatou E.**, Giannogonas P. and Gkelis S. "A preliminary assessment on the potential of sponge-associated cyanobacteria to produce bioactive compounds". The 11th International Conference on Toxic Cyanobacteria (ICTC) (May 5-10, 2019), Kraków, Poland

NATIONAL CONFERENCES

- D.35 **Mavrogonatou E.**, Xilouri M., Gaitanaki C., Papazafiri P. “Role of cytoplasmic calcium stores on neuronal cell apoptosis”. 18th Congress of the Hellenic Society of Neuroscience (October 2003), Athens
- D.36 **Mavrogonatou E.** and Kletsas D. “The effect of hyperosmotic stress on the proliferation of nucleus pulposus intervertebral disc cells”. 8th Scientific meeting of the Hellenic Research Club for Connective Tissue and Matrix Biology (April 14-15, 2006), Heraklion (Oral presentation)
- D.37 **Mavrogonatou E.** and Kletsas D. “Hypertonicity inhibits the proliferation of nucleus pulposus intervertebral disc cells by activating stress-induced signaling pathways”. 58th Congress of the Hellenic Society of Biochemistry and Molecular Biology (November 9-11, 2006), Patras
- D.38 **Mavrogonatou E.** and Kletsas D. “Hyperosmotic stress stimulates a DNA damage response and decelerates proliferation in nucleus pulposus intervertebral disc cells”. 9th Scientific meeting of the Hellenic Research Club for Connective Tissue and Matrix Biology (May 10-12, 2007), Athens (Oral presentation)
- D.39 **Mavrogonatou E.** and Kletsas D. “Hypertonic stress causes damage to the DNA of nucleus pulposus intervertebral disc cells and triggers a typical DNA damage response that leads to the inhibition of their proliferation”. 59th Congress of the Hellenic Society of Biochemistry and Molecular Biology (December 7-9, 2007), Athens
- D.40 **Mavrogonatou E.** and Kletsas D. “High osmolality inhibits nucleus pulposus intervertebral disc cells’ proliferation by delaying them at the G1 and G2 phases of the cell cycle and consists a genotoxic stress that stimulates a DNA damage response”. 60th Congress of the Hellenic Society of Biochemistry and Molecular Biology (November 20-22, 2009), Athens (Oral presentation)
- D.41 **Mavrogonatou E.** and Kletsas D. “High osmolality decreases the proliferative potential of bovine nucleus pulposus intervertebral disc cells in response to growth factors via the regulation of the ERK and Akt pathways”. 61st Congress of the Hellenic Society of Biochemistry and Molecular Biology (October 15-17, 2010), Alexandroupolis
- D.42 **Mavrogonatou E.**, Eliades T, Eliades G and Kletsas D. “Triethylene glycol dimethacrylate causes a p53-dependent G2 arrest in human gingival fibroblasts that protects the cells against the genotoxic effects of the compound”. 61st Congress of the Hellenic Society of Biochemistry and Molecular Biology (October 15-17, 2010), Alexandroupolis
- D.43 **Mavrogonatou E.** and Kletsas D. “Nucleus pulposus intervertebral disc cells’ immediate osmo-regulatory response towards hypertonicity-provoked DNA damage is triggered by cell shrinkage and not by increased intracellular ionic concentration”. 62nd

Congress of the Hellenic Society of Biochemistry and Molecular Biology (December 9-11, 2011), Athens (Oral presentation)

- D.44 **Mavrogonatou E.**, Dimozi A., Pratsinis H. and Kletsas D. “Ο ρόλος των στρες στον πολλαπλασιασμό των κυττάρων του μεσοσπονδύλιου δίσκου”. 5th Hellenic Spine Congress (October 27-30, 2011), Cyprus
- D.45 **Mavrogonatou E.** and Kletsas D. “The role of glucosamine sulfate in the proliferation and glycosaminoglycan synthesis of nucleus pulposus intervertebral disc cells”. 63rd Congress of the Hellenic Society of Biochemistry and Molecular Biology (November 9-11, 2012), Heraklion
- D.46 Papadimitriou K., Anastasiou R., **Mavrogonatou E.**, Blom J., Papandreou N., Hamodrakas S., Ferreira S., Supply P., Pot B. and Tsakalidou E. “Assessing the adaptation to milk and the pathogenic potential of the dairy *Streptococcus macedonicus* ACA- DC 198 through comparative genomics”. 8th Conference of the Hellenic Society for Computational Biology and Bioinformatics (November 22-24, 2013), Lamia (Oral presentation)
- D.47 **Mavrogonatou E.**, Papadopoulos V. and Kletsas D. “Transcriptomics analysis of bovine nucleus pulposus intervertebral disc cells after hyperosmotic treatment”. 8th Conference of the Hellenic Society for Computational Biology and Bioinformatics (November 22-24, 2013), Lamia (Oral presentation)
- D.48 Papadimitriou K., Anastasiou R., **Mavrogonatou E.**, Blom J., Papandreou N., Hamodrakas S., Ferreira S., Renault P., Supply P., Pot B. and Tsakalidou E. “Food related streptococci beyond *Streptococcus thermophilus*: friends or foes? A comparative genomics approach”. 64th Congress of the Hellenic Society of Biochemistry and Molecular Biology (December 6-8, 2013), Athens (Oral presentation)
- D.49 Dimozi A., Sklirou A., **Mavrogonatou E.** and Kletsas D. “The role of oxidative stress on the proliferation and senescence of nucleus pulposus intervertebral disc cells” (*Anastasia Dimozi, Aimilia Sklirou and Eleni Mavrogonatou have equally contributed to this work). 64th Congress of the Hellenic Society of Biochemistry and Molecular Biology (December 6-8, 2013), Athens
- D.50 **Mavrogonatou E.**, Angelopoulou M. and Kletsas D. “Glucosamine sulfate stimulates glycosaminoglycan synthesis and diminishes the TNF α -mediated up-regulation of MMP-3 in nucleus pulposus intervertebral disc cells”. 64th Congress of the Hellenic Society of Biochemistry and Molecular Biology (December 6-8, 2013), Athens
- D.51 **Mavrogonatou E.**, Papadopoulos V. and Kletsas D. “Changes in the transcriptional profile of nucleus pulposus intervertebral disc cells under hyperosmotic conditions”. 64th Congress of the Hellenic Society of Biochemistry and Molecular Biology (December 6-8, 2013), Athens (Oral presentation)

- D.52 Zoumpopoulou G., Alexandraki V., Kazou M., Papadelli M., Tzouvanou A., Manolopoulou E., Anastasiou R., Georgalaki M., **Mavrogonatou E.**, Kletsas D., Papadimitriou K. and Tsakalidou E. “*In vitro* evaluation of probiotic attributes of lactic acid bacteria isolated from Greek traditional dairy and meat products”. 65th Congress of the Hellenic Society of Biochemistry and Molecular Biology (November 28-30, 2014), Thessaloniki
- D.53 **Mavrogonatou E.**, Papadimitriou K., Urban J.P., Papadopoulos V. and Kletsas D. “Transcriptomic analysis sheds light on new transporters regulating the osmotic adaptive response of nucleus pulposus intervertebral disc cells”. 65th Congress of the Hellenic Society of Biochemistry and Molecular Biology (November 28-30, 2014), Thessaloniki (Oral presentation)
- D.54 Liakou E., Vamvakas S.S., **Mavrogonatou E.**, Panagiotou P., Pratsinis H., Karamanos N. and Kletsas D. “Differential expression of extracellular matrix components in γ -irradiation-induced senescent breast stromal fibroblasts”. 37th Scientific Conference of the Hellenic Society of Biological Sciences (May 21-23, 2015), Volos
- D.55 Liakou E., Vamvakas S.S., **Mavrogonatou E.**, Moissidou D., Panayotou P., Pratsinis H., Gorgoulis V., Karamanos N. and Kletsas D. “Breast stromal fibroblasts rendered senescent after exposure to ionizing irradiation overexpress the prognostic cancer markers MMP-1 and SDC1. 66th Congress of the Hellenic Society of Biochemistry and Molecular Biology (December 11-13, 2015), Athens
- D.56 **Mavrogonatou E.**, Dimozi A., Sklirou A. and Kletsas D. “Oxidative stress-induced premature senescence promotes a catabolic phenotype in human nucleus pulposus intervertebral disc cells” 66th Congress of the Hellenic Society of Biochemistry and Molecular Biology (December 11-13, 2015), Athens (Oral presentation)
- D.57 Papadimitriou K., Georgalaki M., Zoumpopoulou G., **Mavrogonatou E.**, Van Driessche G., Alexandraki V., Anastasiou R., Papadelli M., Kazou M., Manolopoulou E., Kletsas D., Devreese B. and E. Tsakalidou “Evaluation of angiotensin-converting enzyme-inhibitory (ACE-I) activity and other probiotic properties of lactic acid bacteria isolated from traditional Greek dairy products”. 67th Congress of the Hellenic Society of Biochemistry and Molecular Biology (November 25-27, 2016), Ioannina
- D.58 Liakou E., **Mavrogonatou E.**, Rizou S., Evangelou K., Panagiotou P.N., Karamanos N.K., Gorgoulis V.G. and Kletsas D. “Ionizing radiation-mediated premature senescence and paracrine interactions with cancer cells enhance the expression of syndecan 1 in human breast stromal fibroblasts: The role of TGF- β ”. 67th Congress of the Hellenic Society of Biochemistry and Molecular Biology (November 25-27, 2016), Ioannina
- D.59 **Mavrogonatou E.** and Kletsas D. “Changes in key molecules participating in the osmo-adaptation of nucleus pulposus intervertebral disc cells during senescence”. 67th Congress of the Hellenic Society of Biochemistry and Molecular Biology (November 25-27, 2016), Ioannina

- D.60 Krokidis M.G., Terzidis M.A., Efthimiadou E., Zervou S.-K., **Mavrogonatou E.**, Papadopoulos K., Hiskia A., Kletsas D. and Chatgililoglu C. “Purine 5',8-cyclo-2'-deoxynucleoside lesions: formation by radical stress and repair in human breast epithelial cancer cells”. 68th Congress of the Hellenic Society of Biochemistry and Molecular Biology (November 10-12, 2017), Athens
- D.61 Kouroumalis A., **Mavrogonatou E.**, Pratsinis H., Savvidou O.D., Papagelopoulos P.J. and Kletsas D. “The phenotype of senescent nucleus pulposus cells is retained under the harsh physicochemical conditions of the intervertebral disc environment”. 68th Congress of the Hellenic Society of Biochemistry and Molecular Biology (November 10-12, 2017), Athens
- D.62 **Mavrogonatou E.**, Konstantinou A. and Kletsas D. “TNF- α -induced premature senescence of human skin fibroblasts *in vitro* is p38 MAPK- and ROS-mediated”. 68th Congress of the Hellenic Society of Biochemistry and Molecular Biology (November 10-12, 2017), Athens
- D.63 **Mavrogonatou E.**, Papadopoulou A., Pratsinis H., Liakou E., Rizou S., Evangelou K., Panagiotou P.N., Karamanos N.K., Gorgoulis V.G. and Kletsas D. “Ionizing radiation-induced senescent human breast stromal fibroblasts display alterations in metalloprotease and proteoglycan expression creating a permissive environment for tumor growth”. 68th Congress of the Hellenic Society of Biochemistry and Molecular Biology (November 10-12, 2017), Athens (Oral presentation)
- D.64 Kouroumalis A., **Mavrogonatou E.**, Pratsinis H., Savvidou O.D., Papagelopoulos P.J. and Kletsas D. “Development of an assay system for the evaluation of senolytic and senomorphic compounds in intervertebral disc cells”. 69th Congress of the Hellenic Society of Biochemistry and Molecular Biology (November 23-25, 2018), Larissa
- D.65 Angelopoulou M., **Mavrogonatou E.**, Pratsinis H., Rizou S., Gorgoulis V.G. and Kletsas D. “The extended activation of the JNK-Akt-Nrf2 pathway by the ATM-p53 pathway protects fibroblasts from UVB-mediated cytotoxicity”. 69th Congress of the Hellenic Society of Biochemistry and Molecular Biology (November 23-25, 2018), Larissa
- D.66 Bourkoula A., **Mavrogonatou E.**, Pavli P., Petrou P.S., Douvas A.M., Argitis P., Kletsas D. and Kakabakos S.E. “Evaluation of photolithographically micropatterned surfaces for guided cell adhesion, morphology and proliferation”. 69th Congress of the Hellenic Society of Biochemistry and Molecular Biology (November 23-25, 2018), Larissa
- D.67 **Mavrogonatou E.**, Papadopoulou A., Pratsinis H., Liakou E., Rizou S., Evangelou K., Panagiotou P.N., Karamanos N.K., Gorgoulis V.G. and Kletsas D. “Decreased expression of the proteoglycan decorin fills in the tumor-promoting phenotype of ionizing radiation-induced senescent human breast stromal fibroblasts”. 69th Congress

of the Hellenic Society of Biochemistry and Molecular Biology (November 23-25, 2018), Larissa

13. EVALUATION OF PUBLISHED PAPERS

390 citations based on the Citation Index of Scopus database/ **518** citations based on the Citation Index of Google Scholar

Total impact factor of published papers: **119.659**

Average impact factor per publication: **4.126**

h-index: **11** based on the Citation Index of Scopus database/ **11** based on the Citation Index of Google Scholar