

Efstathios Gonos

Director of Research

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EDUCATION

B.Sc. in Pharmaceutics, 1984, University of Athens, Greece

Ph.D. in Biochemistry, 1989, University of Glasgow, U.K.

Docent in Biomedicine, 2011, Orebro University, Medical School, Sweden

PROFESSIONAL EXPERIENCE

2011- present: Docent, Orebro University, Medical School, Orebro, Sweden.

2002 – present: Director of Research, N.H.R.F.-I.B.R.B., Athens, Greece.

1993 - 2002: Senior Research Scientist, N.H.R.F.-I.B.R.B., Athens, Greece.

1989 - 1993: Research scientist, Ludwig Institute for Cancer Research, London, U.K.

1985 - 1989: Ph.D. student, Dept. of Biochemistry, University of Glasgow, Glasgow, U.K.

TEACHING EXPERIENCE

a) Co-supervisor for 15 Ph.D. theses, University of Athens, Greece (1995-present)

b) Lecturer in Ph.D. and M.Sc. courses, University of Athens, Greece (2000-present)

c) Member of international Ph.D. examination Committees for:

Banaras Hindu University, India (1997)

Innsbruck University, Austria (2004)

d) Co-supervisor for 2 M.Sc. theses, University College, London, U.K. (1989-93)

e) Co-supervisor for 4 undergraduate theses, University of Athens, Greece (1994-2010)

f) Laboratory tutorials for M.Sc. students, University of Athens, Greece (2002-present)

g) Laboratory tutorials for undergraduates, University of Glasgow, U.K. (1986-1989)

PUBLICATIONS (<i>in peered reviewed journals</i>):	89
ARTICLES IN BOOKS:	11
CITATIONS:	> 2,300
H-INDEX:	27
PATENTS HOLDER:	4
CONTRACTS WITH INDUSTRY (<i>for exploitation of research results</i>):	5
RESEARCH PRODUCTS IN THE MARKET:	1

EDITORIAL BOARD MEMBERSHIP:

Associate Editor: Mechanisms of Ageing & Development (2007-present)

Editorial board: Biogerontology (2001-2009)

Aging Cell (2002-07)

Experimental Gerontology (2003-present)

Molecular Aspects of Medicine (2009-present)

Free Radicals Research (2012-present)

Guest Editor: Experimental Gerontology (2002)

Annals New York Academy of Sciences (2007)

SELECTED DISTINCTIONS:

* "Senior expert" of European Union/FP-6 in the thematic area of "Study human development and the ageing process" (2002-06)

* Deputy National Representative of Greece in European Union in "Genomics and Biotechnology for Health" (2004-06)

* Executive Committee Member of the International Union of Biochemistry and Molecular Biology "IUBMB" (2009-present)

* Member of the Federation of European Biochemical Societies "FEBS" Advanced Course Committee (2010-13)

INTERNATIONAL FELLOWSHIPS:

3

Glasgow University, Ludwig Institute for Cancer Research, Royal Society UK

AWARDED RESEARCH GRANTS:

29

INVITED TALKS IN INTERNATIONAL CONFERENCES:

77

including:

* UNESCO Conference on "Human ageing", 1996, Paris, France

* 25th FEBS Congress, 1998, Copenhagen, Denmark

* EMBO Workshop on "Molecular & Cell. Gerontology", 1999, Serpiano, Switzerland

* 6th IUBMB Conference, 1999, Seoul, S. Korea

* 19th IUBMB Congress, 2003, Montreal, Canada

* 30th FEBS Congress, 2005, Budapest, Hungary

* EMBO Workshop on "Cell Cycle Control", 2007, Spetses, Greece

* Gordon Research Conference on "Oxidative stress and disease", 2009, Il Ciocco, Italy

* 21st IUBMB Congress, 2009, Shanghai, China

* European Parliament Meeting on "Biogerontology", 2010, Brussels, Belgium

* 43rd IUPAC World Chemistry Congress, 2011, Puerto Rico, USA

- * 13th IUBMB Conference on "Cell Signaling Networks", 2011, Merida, Mexico
- * 22nd IUBMB/37th FEBS Congress, 2012, Seville, Spain

ORGANIZATION OF CONFERENCES:

34

including:

- * Chairman of the 2nd Euroconference on "Biological Ageing" (2002)
- * Chairman of the 12th "International Association of Biomedical Gerontology" Congress (2007)
- * Chairman of the 59th Conference of the "Hellenic Society of Biochemistry & Molecular Biology" (2007)
- * Chairman of FEBS/SFRR-Europe/IUBMB Advanced Lecture Course on "Protein maintenance and turnover in ageing and diseases" (2010)

ORGANIZATION OF ADVANCED COURSES:

13

(Spetses island, Greece, 1999-2010)

REFEREES

1. Prof. Aaron Ciechanover (*Nobel in Chemistry, 2004*), The Rappaport Faculty of Medicine and Research Institute, Technion Institute of Technology, Efron Street, Haifa 31096, Israel, e-mail: c_tzachy@netvision.net.il
2. Prof. Vilhelm Bohr, Director, National Institute of Aging, National Institute of Health, 5600 Nathan Shock Drive, Baltimore 21224, U.S.A., e-mail: BohrV@grc.nia.nih.gov
3. Prof. Angelo Azzi, President of I.U.B.M.B., Vascular Biology Laboratory, Tufts University, 711 Washington Street, Boston, MA 02111, U.S.A., e-mail: angelo.azzi@tufts.edu

Publications

1. E.S. Gonos and J.P. Goddard (1987) Human tRNA gene families: copies of the gene for tRNA^{Glu}. *Biochem. Soc. Transact.* **15**, 661-662.
2. E.S. Gonos and J.P. Goddard (1990a) The nucleotide sequence of a human tRNA^{Glu} gene. *Nucleic Acids Res.* **18**, 6705.
3. E.S. Gonos and J.P. Goddard (1990b) The role of the 5'-flanking sequence of a human tRNA^{Glu} gene in modulation of its transcriptional activity in vitro. *Biochem. J.* **272**, 797-803.
4. E.S. Gonos and J.P. Goddard (1990c) Human tRNA^{Glu} genes: their copy number and organisation. *FEBS Lett.* **276**, 138-142.
5. E.S. Gonos, A.J. Powell and P.S. Jat (1992) Human and rodent fibroblasts: model systems for studying senescence and immortalisation. *Int. J. Oncol.* **1**, 209-213.
6. S. Linardopoulos, E.S. Gonos and D.A. Spandidos (1993) Abnormalities of retinoblastoma gene structure in human lung tumors. *Cancer Lett.* **71**, 67-74.
7. A. McLaren, E.S. Gonos, T. Carr and J.P. Goddard (1993) The conformation of tRNA genes: Chemical modification studies. *FEBS Lett.* **330**, 177-180. (cover page)
8. E.S. Gonos and D.A. Spandidos (1993) Oncogenes in cellular immortalisation and differentiation. *Anticancer Res.* **13**, 1117-1122.
9. S. Tseleni-Balafouta, E.S. Gonos and D.A. Spandidos (1994) Expression of *ras* p21 in benign and malignant thyroid lesions. *Oncol. Rep.* **1**, 107-110.
10. E. Kolettas, E.S. Gonos and D.A. Spandidos (1994) Over-expression of Ha-*ras* oncogene transforms rodent fibroblasts with low frequency, but not human diploid fibroblasts. *Int. J. Oncol.* **4**, 43-47.
11. E.S. Gonos and D.A. Spandidos (1994) The retinoblastoma and p53 onco-suppressor genes and their role in human cancer. *Cancer Mol. Biol.* **1**, 27-34.
12. E.S. Gonos and D.A. Spandidos (1996) The role of *cdc2*, *cdc25* and cyclin A genes in the maintenance of immortalisation and growth arrest in a rat embryonic fibroblast cell line. *Cell Biol. Int.* **20**, 159-167.
13. A. Derventzi, S.I.S. Rattan and E.S. Gonos (1996) Molecular links between cellular mortality and immortality. *Anticancer Res.* **16**, 2901-2910.
14. E.S. Gonos, J.S. Burns, G.R. Mazars, A. Kobra, T.E.W. Riley, S.C. Barnett, G. Zafarana, R. Ludwig, Z. Ikram, A.J. Powell and P.S. Jat (1996) Rat embryo fibroblasts immortalised with SV40 large T antigen undergo senescence upon its inactivation. *Mol. Cell. Biol.* **16**, 5127-5138.
15. E.S. Gonos, A. Derventzi, M. Kveiborg, G. Agiostratidou, M. Kassem, B.F.C. Clark, P.S. Jat and S.I.S. Rattan (1998) Cloning and identification of genes that associate with mammalian replicative senescence. *Exp. Cell Res.* **240**, 66-74.
16. O. Toussaint, S.Y. Fuchs, Z.A. Ronai, S. Isoyama, N. Yoko, V. Petronilli, P. Bernardi, E.S. Gonos, P. Dumont and J. Remacle (1998) Reciprocal effects between

stresses and cellular ageing: a molecular and cellular view. *Annals N. Y. Acad. Sci.* 851, 450-465.

17. E.S. Gonos (1998) Expression of the growth arrest specific (gas) genes in rat embryonic fibroblasts undergoing senescence. *Annals N. Y. Acad. Sci.* 851, 466-469.

18. D.C.M. Simoes and E.S. Gonos (1998) Alterations of gene expression during *in vitro* ageing: the mammalian fibroblasts models. *Curr. Sci.* 74, 884-886.

19. C. Mondello, C. Petropoulou, D. Monti, E.S. Gonos, C. Franceschi and F. Nuzzo (1999) Telomere length in fibroblasts and blood cells from healthy centenarians. *Exp. Cell Res.* 248, 234-242.

20. A.J. Powell*, A.J. Darmon*, E.S. Gonos*, E.W.F. Lam, K.W.C. Peden and P.S. Jat (1999) Different functions are required for initiation and maintenance of immortalisation of rat embryo fibroblasts by SV40 large T antigen. *Oncogene* 18, 7343-7350. (*= equally contributed)

21. P. Dumont, M. Burton, Q.M. Chen, E.S. Gonos, C. Fripiat, J.B. Mazarati, F. Eliaers, J. Remacle and O. Toussaint (2000) Induction of replicative senescence biomarkers by sublethal successive oxidative stresses in normal human fibroblasts. *Free Rad. Biol. Med.* 28, 361-373.

22. E.S. Gonos (2000) Genetics of ageing: lessons from centenarians. *Exp. Gerontol.* 35, 15-21.

23. G. Agiostratidou, N. Demertzis and E.S. Gonos (2000) Evaluation of cytotoxic treatment of patients with osteosarcoma by an *in vitro* chemoresistance assay. *Anticancer Res.* 20, 3603-3608.

24. C. Petropoulou, N. Chondrogianni, D. Simoes, G. Agiostratidou, N. Drosopoulos, V. Kotsota and E.S. Gonos (2000) Ageing and longevity: a paradigm of complementation between homeostatic mechanisms and genetic control? *Annals N.Y. Acad. Sci.* 908, 133-142.

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

26. E. Kolettas, A. Evangelou and E.S. Gonos (2001) *v-FBR-fos* oncogene fails to rescue mammalian cells from growth arrest but affects the responses of human fibroblasts to heparin. *Anticancer Res.* 21, 435-444.

27. G. Agiostratidou, I. Sgouros, E. Galani, A. Voulgari, N. Chondrogianni, E. Samantas, M.A. Demopoulos, D. Skarlos and E.S. Gonos (2001a) Correlation of *in vitro* cytotoxicity and clinical response to chemotherapy in ovarian and breast cancer patients. *Anticancer Res.* 21, 455-460.

28. G. Agiostratidou, A. Derventzi and E.S. Gonos (2001b) Over-expression of CDKIs p15, p16 and p21 genes mediate growth arrest in human osteosarcoma cell lines. *In vivo* 15, 443-446.

29. C. Petropoulou, I.P. Trougakos, E. Kolettas, O. Toussaint and E.S. Gonos (2001) Clusterin/Apolipoprotein J is a novel biomarker of cellular senescence that does not affect the proliferative capacity of human diploid fibroblasts. *FEBS Lett.* 509, 287-297.

30. N. Chondrogianni, E.G. Fragoulis and E.S. Gonos (2002) Protein degradation during aging: the lysosome-, the calpain- and the proteasome-dependent cellular proteolytic systems. *Biogerontology* 3, 121-123.

31. P. Dumont, F. Chainiaux, F. Eliaers, C. Petropoulou, J. Remacle, C. Koch-Brandt, E.S. Gonos and O. Toussaint (2002) Overexpression of Apolipoprotein J in human fibroblasts protects against cytotoxicity and premature senescence induced by ethanol and tert-butylhydroperoxide. *Cell Stress & Chaperones* 7, 23-35.

32. D.C.M. Simoes and E.S. Gonos (2002) Cloning approaches for identifying aging and longevity genes in mammals. *TheScientificWorldJournal* 2, 483-491.

33. M. Barradas, E.S. Gonos, Z. Zebedee, E. Kolettas, C. Petropoulou, M. Dolores-Delgado, J. Leon, E. Hara and M. Serrano (2002) Identification of a candidate tumor suppressor gene specifically activated during *ras*-induced senescence. *Exp. Cell Res.* 273, 127-137.

34. E. Galani, J. Sgouros, C. Petropoulou, J. Janninis, G. Aravantinos, D. Dionysiou-Asteriou, D.V. Skarlos and E.S. Gonos (2002) Correlation of MDR-1, nm23-H1 and H Sema E gene expression with histopathological findings and clinical outcome in ovarian and breast cancer patients. *Anticancer Res.* 22, 2275-2280.

35. I.P. Trougakos and E.S. Gonos (2002) Clusterin/Apolipoprotein J in human ageing and cancer. *Int. J. Biochem. & Cell Biol.* 34, 1430-1448.

36. I.P. Trougakos, M. Poulakou, M. Stathatos, A. Chalikia, A. Melidonis and E.S. Gonos (2002) Serum levels of the senescence biomarker Clusterin/Apolipoprotein J increase significantly in diabetes type II and during development of coronary heart disease or at myocardial infarction. *Exp. Gerontol.* 37, 1175-1187.

37. M. Bonafè, C. Barbi, G. Storci, S. Salvioli, M. Capri, F. Olivieri, S. Valensin, D. Monti, E.S. Gonos, G. De Benedictis and C. Franceschi (2002) What studies on human longevity tell us about the risk for cancer in the oldest old: data and hypotheses on the genetics and immunology of centenarians. *Exp. Gerontol.* 37, 1263-1271.

38. N. Chondrogianni, F.L.L. Stratford, I.P. Trougakos, B. Friguet, A.J. Rivett and E.S. Gonos (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.

39. C. Giampieri, M. Centurelli, M. Bonafe, F. Olivieri, M. Cardelli, F. Marchegiani, L. Cavallone, S. Giovagnetti, E. Mugianesi, G. Carrieri, R. Lisa, S. Cenerelli, R. Testa, M. Boemi, C. Petropoulou, E.S. Gonos and C. Franceschi (2004) A

novel mitochondrial DNA-like sequence insertion polymorphism in intron I of the FOXO1A gene. *Gene* 327, 215-219.

40. I.P. Trougakos, A. So, B. Jansen, M.E. Gleave and E.S. Gonos (2004) Silencing expression of the Clusterin/Apolipoprotein J gene in human cancer cells using small interfering RNA induces spontaneous apoptosis, reduced growth ability and cell sensitization to genotoxic and oxidative stress. *Cancer Res.* 64, 1834-1842.

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

42. I.P. Trougakos and E.S. Gonos (2004) Functional analysis of Clusterin/Apolipoprotein J in cellular death induced by severe genotoxic stress. *Annals N. Y. Acad. Sci.* 1019, 206-210.

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

44. E. Kontargiris, E. Kolettas, A. Vadalouca, I.P. Trougakos, E.S. Gonos and V. Kalfakakou (2004) Ectopic expression of Clusterin/Apolipoprotein J or bcl-2 decreases the sensitivity of HaCaT cells to toxic effects of ropivacaine. *Cell Res.* 14, 415-422.

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

46. I.P. Trougakos, M. Lourda, G. Agiostratidou, D. Kletsas and E.S. Gonos (2005) Differential effects of Clusterin/Apolipoprotein J on cellular growth and survival. *Free Rad. Biol. Med.* 38, 436-449.

47. A.M. Leroi, A. Bartke, G. De Benedictis, C. Franceschi, A. Gardner, E.S. Gonos, M.E. Feder, T. Kivisild, S. Lee, N. Kartal-Ozer, M. Schumacher, E. Sikora, E. Slagboom, M. Tatar, A. Yashin, J. Vijg and B. Zwaan (2005) What evidence is there for the existence of individual genes with antagonistic pleiotropic effects? *Mech. Ageing & Devel.* 126, 421-429.

48. N. Chondrogianni, C. Tzavelas, A.J. Pemberton, I.P. Nezis, A.J. Rivett and E.S. Gonos (2005) Overexpression of proteasome β 5 subunit increases amount of assembled proteasome and confers ameliorated response to oxidative stress and higher survival rates. *J. Biol. Chem.* 280, 11840-11850.

49. E. Galani, D. Skarlos, J. Sgouros, M. Litos, E.S. Gonos and A. Dionyssiou-Asteriou (2005) Correlation of mdr-1 expression and CA125 in ovarian cancer. *In vivo* 19, 797-800.

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

51. I.P. Trougakos, A. Saridaki, G. Panayotou and E.S. Gonos (2006) Identification of differentially expressed proteins in senescent human embryonic fibroblasts. *Mech. Ageing & Devel.* 127, 88-92.
52. E. Kolettas, I. Skoufos, E. Kontargiris, S. Markopoulou, T. Tzavaras and E.S. Gonos (2006) Bcl-2 but not Clusterin/Apolipoprotein J protected human diploid fibroblasts and immortalised keratinocytes from ceramide-induced apoptosis: role of p53 in the ceramide response. *Arch. Biochem. Biophys.* 445, 184-195.
53. M. Capri, S. Savioli, F. Sevini, S. Valensin, L. Celani, D. Monti, G. Pawelec, G. De Benedictis, E.S. Gonos and C. Franceschi (2006) The genetics of human longevity. *Annals N. Y. Acad. Sci.* 1067, 252-263.
54. I.P. Trougakos, C. Petropoulou, C. Franceschi and E.S. Gonos (2006) Reduced expression levels of the senescence biomarker Clusterin/Apolipoprotein J in lymphocytes from healthy centenarians. *Annals N. Y. Acad. Sci.* 1067, 294-300.
55. E. Poullos, I.P. Trougakos and E.S. Gonos (2006) Comparative effects of hypoxia on normal and immortalized human diploid fibroblasts. *Anticancer Res.* 26, 2165-2168.
56. F.L.L. Stratford, N. Chondrogianni, I.P. Trougakos, E.S. Gonos and A.J. Rivett (2006) Proteasome response to interferon- γ is altered in senescent human fibroblasts. *FEBS Lett.* 580, 3989-3994.
57. I.P. Trougakos, G. Pawelek, C. Tzavelas, T. Ntouroupi and E.S. Gonos (2006) Clusterin/Apolipoprotein J up-regulation after zinc exposure, replicative senescence or differentiation of human haematopoietic cells. *Biogerontology* 7, 375-382.
58. S. Salvioli, F. Olivieri, F. Marchegiani, M. Cardelli, A. Santoro, E. Bellavista, M. Mishto, L. Invidia, M. Capri, S. Valensin, F. Sevini, E. Gevenini, L. Celani, F. Lescai, E.S. Gonos, C. Caruso, G. Paolisso, G. De Benedictis, D. Monti and C. Franceschi (2006) Genes, ageing and longevity in humans: problems, advantages and perspectives. *Free Rad. Res.* 40, 1303-1323.
59. I.P. Trougakos and E.S. Gonos (2006) Regulation of Clusterin/Apolipoprotein J, a functional homologue to the small heat shock proteins, by oxidative stress in ageing and age-related diseases. *Free Rad. Res.* 40, 1324-1334.
60. M. Lourda, I.P. Trougakos and E.S. Gonos (2007) Development of resistance to chemotherapeutic drugs in human osteosarcoma cell lines largely depends on up-regulation of Clusterin/Apolipoprotein J. *Int. J. Cancer* 120, 611-622.
61. C. Franceschi, V. Bezrukov, H. Blanche, L. Bolund, K. Christensen, G. De Benedictis, L. Deiana, E.S. Gonos, A. Hervonen, H. Yang, B. Jeune, T.B. Kirkwood, P. Kristensen, A. Leon, P.G. Pelicci, L. Peltonen, M. Pauline, I.M. Rea, J. Remacle, J.M. Robine, S. Schreiber, E. Sikora, P.E. Slagboom, L. Spazzafumo, M.A. Stazi, O.

Toussaint and J.W. Vaupel JW (2007). Genetics of Healthy Aging in Europe: The EU-Integrated Project GEHA. *Annals N. Y. Acad. Sci.* 1100, 21-45.

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

63. M Katsiki, N. Chondrogianni, I. Chinou, A.J. Rivett and E.S. Gonos (2007) The olive constituent oleuropein exhibits proteasome stimulatory properties *in vitro* and confers lifespan extension of human embryonic fibroblasts. *Rejuvenation Res.* 10, 157-172.

64. J. Sgouros, E. Galani, E.S. Gonos, P. Moutsatsou, M. Belechri, D. Skarlos and A. Dionysiou-Asteriou (2007) Correlation of nm23-H1 gene expression with clinical outcome in patients with advanced breast cancer. *In vivo* 21, 519-522.

65. E. Mocchegiani, R. Giacconi, C. Cipriano, L. Costarelli, E. Muti, S. Tesei, C. Giuli, R. Papa, F. Marcellini, E. Mariani, L. Rink, G. Herbein, A. Varin, T. Fulop, D. Monti, J. Jajte, G. Dedoussis, E.S. Gonos, I.P. Trougakos and M. Malavolta (2007) Zinc, metallothioneins and longevity: effect of zinc supplementation. *Annals N. Y. Acad. Sci.* 1119, 129-146.

66. E. Poulos, I.P. Trougakos, N. Chondrogianni and E.S. Gonos (2007) Exposure of human diploid fibroblasts to hypoxia extends proliferative lifespan. *Annals N. Y. Acad. Sci.* 1119, 9-19.

67. E. Mocchegiani M. Malavolta, R. Giacconi, C. Cipriano, L. Costarelli, E. Muti, S. Tesei, C. Giuli, R. Papa, F. Marcellini, E. Mariani, L. Rink, G. Herbein, T. Fulop, D. Monti, J. Jajte, G. Dedoussis, E.S. Gonos, A. Buerkle, B. Friguet, P. Mecocci, M. Colasanti, C. Soti, D. Mazzatti, M. Blasco, R. Aspinall and G. Pawelec (2008) Zinc, metallothioneins and longevity: effect of zinc supplementation on antioxidant response. *Rejuvenation Res.* 11, 419-423.

68. E.C. Alexopoulos, X. Cominos, I.P. Trougakos, M. Lourda, E.S. Gonos and V. Makropoulos (2008) Biological monitoring of hexavalent chromium and serum levels of the senescence biomarker Apolipoprotein J/Clusterin in welders. *Bioinorg. Chem. Applic.*, ID: 420578

69. N. Chondrogianni, I.P. Trougakos, D. Kletsas, Q.M. Chen and E.S. Gonos (2008) Partial proteasome inhibition in human fibroblasts triggers accelerated M1 senescence or M2 crisis depending on the p53 and RB status. *Aging Cell* 7, 717-732 (cover page)

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

71. I.P. Trougakos, M. Lourda, M.H. Antonelou, D. Kletsas, V.G. Gorgoulis, I. Papassideri, Y. Zou, L.H. Margaritis, D.A. Boothman and E.S. Gonos (2009) Intracellular Clusterin inhibits mitochondrial apoptosis by suppressing p53-activating

stress signals and stabilizing the cytosolic Ku70-Bax protein complex. *Clinical Cancer Res.* 15, 48-59 (cover page)

72. I.P. Trougakos, J.Y. Djeu, E.S. Gonos and D.A. Boothman (2009) *Advances and challenges in basic and translational research on Clusterin. Cancer Res.* 69, 403-406

73. E. Balantinou, I.P. Trougakos, N. Chondrogianni, L.H. Margaritis and E.S. Gonos (2009) *Transcriptional and post-translational regulation of clusterin by the two main cellular proteolytic pathways. Free Rad. Biol. Med.* 46, 1267-1274

74. S. Markopoulou, E. Kontargiris, C. Batsi, T. Tzavaras, I.P. Trougakos, D. Boothman, E.S. Gonos and E. Kolettas (2009) Vanadium-induced apoptosis of HaCaT cells is mediated by *c-fos* and involves nuclear accumulation of clusterin. *FEBS J.* 276, 4208-4223

75. B. Catalgol, I. Ziaja, N. Breusing, T. Jung, A. Höhn, B. Alpertunga, P. Schroeder, N. Chondrogianni, E.S. Gonos, I. Petropoulos, B. Friguet, L.O. Klotz, J. Krutmann and T. Grune (2009) *The proteasome is an integral part of solar ultraviolet A radio-induced gene expression. J. Biol. Chem.* 284, 30076-30086

76. I.P. Trougakos, N. Chondrogianni, I. Amarantos, J. Blake, C. Schwager, U. Wirkner, W. Ansorge and E.S. Gonos (2010). Genome-wide transcriptome profile of the human osteosarcoma Sa OS and U-2 OS cell lines. *Cancer Genet. Cytogenet.* 196, 109-118

77. S. Kapeta, N. Chondrogianni and E.S. Gonos (2010) *Nuclear erythroid factor 2 (Nrf2) mediated proteasome activation delays senescence in human fibroblasts. J. Biol. Chem.* 285, 8171-8184

78. N. Chondrogianni, S. Kapeta, I. Chinou, K. Vassilatou, I. Papassideri and E.S. Gonos (2010). Anti-ageing and rejuvenating effects of quercetin. *Exp. Gerontol.* 45, 763-771

79. G. Rose, G. Romeo, S. Dato, P. Crocco, A.C. Bruni, A. Hervonen, K. Majamaa, F. Sevinci, C. Franceschi, G. Passarino, V. Bezrukov, H. Blanche, L. Bolund, K. Christensen, L. Deiana, E.S. Gonos, T.B. Kirkwood, P. Kristensen, A. Leon, P.G. Pelicci, M. Perola, M. Poulain, I.M. Rea, J. Remacle, S. Schreiber, E. Sikora, P.E. Slagboom, L. Spazzafumo, M.A. Stazi, O. Toussaint and J.W. Vaupel (2010). Somatic Point Mutations in mtDNA Control Region Are Influenced by Genetic Background and Associated with Healthy Aging: A GEHA Study. *PLoS One* 5, e13395

80. C. Sisoula, V. Trachana, C. Patterson and E.S. Gonos (2011). *CHIP-dependent p53 regulation occurs specifically during cellular senescence. Free Rad. Biol. Med.* 50, 157-165

81. C. Sisoula and E.S. Gonos (2011). CHIP E3 ligase regulates mammalian senescence by modulating the levels of oxidized proteins. *Mech Ageing Devel.* 132, 269-272

82. K. Graikou, S. Kapeta, N. Aligiannis, G. Sotiroudis, N. Chondrogianni, E.S. Gonos and I. Chinou (2011). Chemical Analysis of Greek Pollen - Antioxidant, antimicrobial and proteasome activation properties. *Chem. Central J.* 5, 33

83. A. Skytthe, S. Valensin, B. Jeune, E. Cevenini, F. Balard, M. Beekman, V. Bezrukov, h. Blanche, L. Bolund, K. Broczek, C. Carru, K. Christensen, L. Christiansen, J.C. Collerton, R. Cotichini, A.J. de Craen, S. Dato, K. Davies, G. De Benedictis, L. Deiana, F. Flachsbart, J. Gampe, C. Gilbault, E.S. Gonos, E. Haimes, A. Hervonen, M.A. Hurme, D. Janiszewska, M. Jylhä, T.B. Kirkwood, P. Kristensen, P. Laiho, A. Leon, A. Marchisio, R. Masciulli, A. Nebel, G. Passarino, G. Pelicci, L. Peltonen, M. Perola, M. Poulain, I.M. Rea, J. Remacle, J.M. Robine, S. Schreiber, M. Scurti, F. Sevini, E. Sikora, A. Skouteri, P.E. Slagboom, L. Spazzafumo, M.A. Stazi, V. Taccaceli, O. Toussaint, O. Törnwall, J.W. Vaupel, K. Voutetakis and C. Franceschi (2011). Design, recruitment, logistics and data management of the GEHA project. *Exp. Gerontol.* 46, 934-945

84. K.S. Leskov, S. Araki, J.P. Lavik, J. Gomez, V. Gama, E.S. Gonos, I.P. Trougakos, S. Matsuyama and D.A. Boothman (2011) Crm1-mediated regulation of nuclear clusterin, an ionizing radiation-stimulated, bax-dependent pro-death factor. J. Biol. Chem. 286, 40083-40090

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

86. D. Jurk, C. Wang, S. Miwa, M. Maddick, V. Korolchuk, A. Tsolou, E.S. Gonos, C. Thrasivoulou, M. Saffrey, K. Cameron and T. von Zglinicki (2012) Postmitotic neurons develop a p21-dependent senescence-like phenotype driven by a DNA damage response. Aging Cell 11, 996-1004

87. N. Chondrogianni, I. Petropoulos, S. Grimm, K. Georgila, B. Catalgol, B. Friguet, T. Grune and E.S. Gonos (2012) Protein damage, repair and proteolysis. Mol. Aspects Med., in press

88. M. Beekman, H. Blanché, M. Perola, A. Hervonen, V. Bezrukov, E. Sikora, F. Flachsbart, L. Christiansen, A.J. De Craen, T.B. Kirkwood, I.M. Rea, M. Poulain, J.M. Robine, S. Valensin, M.A. Stazi, G. Passarino, L. Deiana, E.S. Gonos, L. Paternoster, T.I. Sørensen, Q. Tan, Q. Helmer, E.B. Van den Akker, J. Deelen, F. Martella, H.J. Cordell, K.L. Ayers, J.W. Vaupel, O. Törnwall, T.E. Johnson, S. Schreiber, M. Lathrop, A. Skytthe, R.G. Westendorp, K. Christensen, J. Gampe, A. Nebel, J.J. Houwing-Duistermaat, E.P. Slagboom and C. Franceschi C (2013) Genome-wide linkage analysis for human longevity: Genetics of Healthy Ageing Study. Aging Cell, 12, 184-193.

89. L. Da Silva, M. Godejohann, F.J. Martin, S. Collino, A. Bürkle, M. Moreno-Villanueva, J. Bernhardt, O. Toussaint, B. Grubeck-Loebenstein, E.S. Gonos, E. Sikora, T. Grune, N. Breusing, C. Franceschi, A. Hervonen, M. Spraul, and S. Moco

(2013) High-Resolution Quantitative Metabolome Analysis of Urine by Automated Flow Injection NMR. Anal. Chem., in press