

George A. Garinis Curriculum vitae

Academic and research record

1. Personal Information

Name, Surname: George, Garinis
Present address: Institute of Molecular Biology and Biotechnology
 FORTH, Vassilika Vouton P.O.Box 1385
 GR 711 10 Heraklion, Crete, GREECE
 Tel. Office: +30-2810-391246
 Tel. Lab: +30-2810-391072
 E-mail: garinis@imbb.forth.gr
Date of Birth: June 27, 1972
URL for web site: <http://www.imbb.forth.gr/people/garinis/index.html>

2. Education

1996-2001: Ph.D. University of Athens, Medical School, Athens Greece.
1993-1995: M.Sc. Eötvös Lorand University, Budapest, Hungary.
1990-1993: B.Sc. Eötvös Lorand University, Budapest, Hungary.

3. Current Position(s)

2014 - Onwards: Professor, University of Crete, Heraklion, Greece
 & affiliated group leader, IMBB-FORTH, Heraklion, Crete, Greece.

4. Previous Positions

2011-2014: Associate Professor (tenured position), University of Crete, Heraklion, Greece
 & affiliated group leader, IMBB-FORTH, Heraklion, Crete, Greece.
2008-2011: Junior Group leader, IMBB-FORTH, Heraklion, Crete, Greece.
2002-2008: Postdoctoral fellow, Department of Genetics, Erasmus University, the Netherlands.

5. Prizes and Awards

2012-2015: Recipient of the EMBO Young Investigator Programme

6. Supervision of Graduate Students and Postdoctoral Fellows

2012 - To date: Six postdoctoral fellows, 4 PhD students, 10 MSc students, two technicians,
 Department of Biology, University of Crete & IMBB-FORTH, Heraklion, Crete,
 Greece.
2008 - 2011: Three PhD students, 2 MSc students, 2 diploma thesis students, one technician,
 Department of Biology, University of Crete & IMBB-FORTH, Heraklion, Crete,
 Greece.
2002 - 2008: Three MSc students, two diploma thesis students,
 Department of Genetics, Erasmus University, the Netherlands.

7. Teaching activities

2011 - To date: Lecturer, Human Genetics, Department of Biology, University of Crete.
2009 - To date: Lecturer, Postgraduate program “Molecular Basis of Human Disease”, Medical
 School, University, of Crete, Greece.
2008 - To date: Lecturer, Postgraduate program “Molecular Biology Biomedicine”, Department of
 Biology, University of Crete, Greece.

8. Organization of Scientific Meetings

- 2017:** Organizer, EMBO YIP Genome Integrity”, Heraklion, May 5-7, Greece.
- 2016:** Organizer, joint Workshop and Summer school on "Molecular Mechanisms in Development and Disease ", September 26-28, FORTH, Heraklion.
- 2016:** Organizer, EMBO Cancer YIP Meeting, Heraklion, June 26-27, Heraklion.
- 2014:** Co-organizer, Summer School on “Care and Use of laboratory Animals: Science, Philosophy and Society, June 4-16, University of Crete, Heraklion”.
- 2015:** Organizer, EMBO Workshop on “Developmental Circuits in Aging”, Heraklion, May 25-28, Crete.
- 2014:** Organizer, joint Workshop and Summer school on "Regulation of the (Epi)Genome during Ageing", June 8-14, FORTH, Heraklion.
- 2014:** Co-organizer, Erasmus Summer School on “Care and Use of laboratory Animals: Science, Philosophy and Society, May 4-16, University of Crete, Heraklion”.
- 2013:** Co-organizer, 1st aDDResS/CodeAge Workshop on “DNA damage, Chromatin and Ageing”, IFOM- FIRC Institute for Molecular Oncology, Nov 21-22, Milan, Italy.

9. Institutional Responsibilities

- 2013 - 2016:** Scientific council member, IMBB-FORTH, Heraklion, Greece.
- 2011 - 2013:** Section head for molecular biology domain, Dept. of Biology, University of Crete, Heraklion, Greece.

10. Commissions of Trust

- 2016-** Reviewer for the H2020-MSCA-IF Call 2016
- 2016-** Reviewer for the H2020 FET OPEN RIA Call 2016-1
- 2012 - 2014:** National representative, Reviewer and Rapporteur for the EU-COST domain - Biomedicine and Molecular Biosciences action.
- 2011-:** Editorial board member in:
 -Mechanisms of Ageing and Development, (Elsevier).
 -Frontiers in Genetics, (Frontiers).
 -Scientific Reports, (Nature Press)
- 2009 - To date:** Manuscript reviewer for: eLIFE, EMBO J, EMBO Reports, Journal of Cell Science, Molecular Cell, J Clinical Investigation, PNAS USA, PLoS Genetics.
- 2008 - To date:** Grant reviewer for: Netherlands Organization for Scientific Research (NWO), German Science Foundation (DFG), Czech Science Foundation (GACR), Agence Nationale de la Recherche (ANR), Greek Secretariat of Research (GSRT), European Union (as an external reviewer for ERC advanced scheme, COST action).

11. Ongoing collaborations (last 5 years)

Nucleotide Excision Repair, DNA damage and Aging:

- Jan Hoeijmakers: Professor/Director, Erasmus MC, NL.
- Laura Niedernhofer: Associate Professor, Scripps Research Institute, FL, USA.

Nucleotide Excision Repair, Transcription and Chromatin Dynamics:

- Jean-Marc Egly: Director of Research, IGBMC, FR.

3C / HiC / Tethered Conformation Capture:

- Charalambos Spilianakis: Associate Professor, IMBB-FORTH and University of Crete, GR.

Computational Biology and Bioinformatics / 3C, HiC approach:

- Tae Hoo Kim: Assoc. Professor, Yale University, CT, USA.

Nucleotide Excision Repair and Integrins

- Reinhard Fässler: Director, Max Planck Institute of Biochemistry, GE

12. Active Funding ID

1. PROGRAMME: **European Research Council (ERC consolidator)**, AGENCY: European Commission, TITLE: Nucleotide Excision Repair: Dissecting its function in development and disease, CONTRACT No: 646663, ROLE: Principal investigator, DURATION: 2016-2021
2. PROGRAMME: **H2020-MSCA-ITN-2014 Chromatin 3D**, AGENCY: European Commission, Marie Curie, Host-Driven Actions, TITLE: Chromatin3D: Joint training and research network on Chromatin Dynamics in Development and Disease, CONTRACT No: 316354, ROLE: Partner, DURATION: 2015-2019

13. Past Funding ID (last 5 years)

1. PROGRAMME: **FP7-PEOPLE-2012-ITN-aDRess**, AGENCY: European Commission, Marie Curie Host-Driven Actions, TITLE: Joint training and research network On Chromatin Dynamics and the DNA Damage Response, CONTRACT No: 316390, ROLE: Coordinator, DURATION: 2012-2016
2. PROGRAMME: **FP7-PEOPLE-2012-ITN-CodeAge**, AGENCY: European Commission, Marie Curie, Host-Driven Actions, TITLE: The role of Chronic DNA damage in Ageing and Age-related pathology, CONTRACT No: 316354, ROLE: Partner, DURATION: 2012-2016
3. PROGRAMME: **FP7-PEOPLE-2012-ITN-Marriage**, AGENCY: European Commission, Marie Curie Host-Driven Actions, TITLE: MARie CuRIe AGEing Network, CONTRACT No: 316964, , ROLE: Partner, DURATION: 2012-2016
4. PROGRAMME: **ARISTEIA Excellence Award**, AGENCY: Ministry of Education, Greece, TITLE: TagNER: Tagging NER in development and disease, CONTRACT No: 45, ROLE: Principal investigator, DURATION: 2012-2015
5. PROGRAMME: **The EMBO Young Investigator Program**, AGENCY: European Molecular Biology organization, TITLE: The DNA Damage Response in Development and Disease, CONTRACT No: N/A, ROLE: Principal investigator, DURATION: 2013-2015
6. PROGRAMME: **THALIS-miREG**, AGENCY: Ministry of Education, Greece, TITLE: MicroRNAs and Transcription Factor Networks in the regulation of cell differentiation, aging and tumorigenesis, CONTRACT No: N/A, ROLE: Partner, DURATION: 2012-2015
7. PROGRAMME: **THALIS-GenAge**, AGENCY: Ministry of Education, Greece, TITLE: The role of Genetic and Environmental Factors in Aging and Longevity, CONTRACT No: N/A, ROLE: Coordinator, DURATION: 2012-2015
8. PROGRAMME: **HERAKLITOS II**, AGENCY: Ministry of Education, Greece, TITLE: The role of genome instability in natural and accelerated aging, CONTRACT No: N/A, ROLE: Principal investigator, DURATION: 2010-2013
9. PROGRAMME: **NATIONAL ACTION: COOPERATION**, AGENCY: General Secretariat of Research and Technology, Greece, TITLE: "Development of a National Network for Genomic Research: Methodological approaches for Systems Biology", CONTRACT No: EDGE 901-13/11/2009, ROLE: Partner, DURATION: 2010-2013.

14. Granted patents

1. **European Office Patent Number PCT/NL2005/000532**. Non-human animal model for cardiovascular disease.
2. **European Office Patent Number PCT/04078128.8**. Premature aging mouse models for the role of DNA damage in aging and intervention in aging-related pathology.

15. Selected Invited talks (last 5 years)

2017

1. Nucleotide Excision Repair: in Cancer and Ageing. CIG Aging and Anti-Aging Symposium June 21-22, 2018 – Lausanne, **Switzerland**

2. Nucleotide Excision Repair: in Development and Disease", June 28, Institut für Zellbiologie, Medizinische Fakultät, Universität Duisburg-Essen, **Germany**
3. ERCC1-XPF cooperates with CTCF and cohesin to facilitate the developmental silencing of imprinted genes", June 5-7, EMBO YIP On Genome Integrity, FORTH, Heraklion, Crete, **Greece**
4. Dissecting the functional role of Genome Maintenance in DNA damage-driven Inflammation", REIS 2017, March 6-9, Budapest, **Hungary**
4. Nucleotide Excision Repair: in Development and Disease", February 2, Department of Molecular Biology, University of Geneva, Geneva, **Switzerland**

2016

1. Nucleotide Excision repair in Aging and Cancer", The EMBO Cancer YIP meeting June 26-27th, FORTH, Heraklion, **Greece**
2. "DNA damage and Aberrant Developmental Silencing of Imprinted Genes". The 10th Quinquennial Conference on Responses to DNA damage: from molecule to disease, April 17-22th, 2016, Egmond aan Zee, the **Netherlands**
3. "DNA damage Triggers Aberrant Developmental Silencing of Imprinted Genes". The EMBO DNA damage YIP meeting, April 3-5th, Seville, **Spain**
4. "Nucleotide Excision Repair: in development and disease", The ITN Chromatin 3D 1st Annual meeting, February 3-5th, 2016, Milano, **Italy**
5. Invited seminar: "DNA damage and chronic inflammation in NER Progeria". January 20, the University of Bath, Bath, **United Kingdom**.

2015:

1. "Nucleotide Excision Repair: in development and disease", The EMBO Young Investigator's meeting, April 20-21th, 2015, Strasbourg, **France**
2. Invited Seminar. Lecture title: "DNA repair, DNA damage and metabolic defects in mammals", October 21-22th, The University of Bath, Bath, **United Kingdom**
3. Invited Seminar. Lecture title: "DNA repair, DNA damage and Chromatin architecture", November 17-18th, The University of Newcastle, Newcastle, **United Kingdom**

2014:

1. "Nucleotide Excision Repair: new tricks with old bricks", The 10th "Plasticity and Instability of Genomes" meeting (PIG), CEA, November 13-14, 2014, Grenoble, **France**
2. "Nucleotide Excision Repair: Lessons from the mouse". The DNA Replication as a Source of DNA Damage Conference, September 30-October 3 2014, the Mazagan Beach Resort, Casablanca, **Morocco**.
3. "Genome Instability and Aging". Euro Science Open Forum (ESPF), June 21-26, Copenhagen, **Sweden**
4. "Dissecting the functional relevance of NER in development and disease. EMBO YIP Meeting, May 14-15th, Heidelberg, **Germany**
5. "NER: In Development & Disease". Max Planck Institute, March 10th, Munich, **Germany**
6. "DNA repair, genome instability and metabolic defects in mammals", 1st aDDress Annual Meeting & 1st Training Workshop, November 21-22th, Milano, **Italy**

2013:

1. "DNA Damage Triggers a Chronic Autoinflammatory Response, Leading to Fat Depletion in NER Progeria", Istituto Superiore di Sanita, November 18th, Rome, **Italy**
2. "The Omics of Aging: Insights from Genomes Upon Stress". The Munich Lung Conference on "Lung Aging: Molecular Mechanisms and Clinical Relevance", October 4th, Munich, **Germany**
3. "Nucleotide excision repair: in development and disease", "Ageing and Cancer cell biology: Convergent and divergent molecular mechanisms", June 27-29th, Athens, **Greece**
4. "Nucleotide excision repair: in development and disease", 13th EMBO Young Investigator Programme Meeting EMBL, May 6th, Heidelberg, **Germany**

2012:

1. "2nd Inflammation, Cancer and Novel Therapeutics Conference and Summer School 2012". Lecture title: DNA damage & aging: new tricks with old bricks. September 25th, Malia, Crete, **Greece**
2. Invited Seminar. Lecture title: NER: New Tricks with Old Bricks, Department of Genetics, Erasmus MC, December 12th, Rotterdam, **Netherlands**

16. Prizes and Awards

2012: Recipient of the EMBO Young Investigator Program

17. Selected Publications

Full list of publications appearing in PubMed (n=46)**H-Index: 25, Citations: 2912**

1. Chatzinikolaou G, Apostolou Z, Aid-Pavlidis T, Ioannidou A, Karakasilioti I, Papadopoulos GL, Aivaliotis M, Tsekrekou M, Strouboulis J, Kosteas T, Garinis GA (2017). DNA damage Triggers Aberrant Developmental Silencing of Imprinted Genes. **Nature Cell Biology**;19(5):421-432.
2. Oliverio M, Schmidt E, Mauer J, Baitzel C, Hansmeier N, Khani S, Konieczka S, Pradas-Juni M, Brodesser S, Van TM, Bartsch D, Brönneke HS, Heine M, Hilpert H, Tarcitano E, Garinis GA, Frommolt P, Heeren J, Mori MA, Brüning JC, Kornfeld JW (2016). Dicer1-miR-328-Bace1 signalling controls brown adipose tissue differentiation and function. **Nature Cell Biology**;18(3):328-36.
3. Chatzinikolaou G, Karakasilioti I, Garinis GA (2014). DNA Damage and Innate Immunity: Mechanisms and Trade-offs. **Trends Immunol.** 2014 Sep;35(9):429-35.
4. Karakasilioti I, Kamileri I, Chatzinikolaou G, Kosteas T, Vergadi E, Robinson A, Tsamardinos I, Rozgaja TA, Siakouli S, Tsatsanis C, Niedernhofer LJ, Garinis GA. (2013). DNA damage triggers a chronic auto-inflammatory response, leading to fat depletion in NER progeria. **Cell Metabolism**;18(3):403-15.
5. Kamileri I, Karakasilioti I, Garinis G (2012). Nucleotide Excision Repair: New Tricks with Old Bricks. **Trends in Genetics. Nov**;28(11):566-73.
6. Kamileri I, Karakasilioti I, Sideri A, Kosteas T, Tatarakis A, Talianidis I and Garinis GA (2012). Defective transcription initiation causes postnatal growth failure in a mouse model of NER progeria. **Proceedings of the National Academy of Sciences** 109, 2995;109(8):2995-3000.
7. Tilstra J, Robinson A, Wang J, Gregg S, Clauson C, Reay D, Nasto L, Croix C, Usas A, Vo N, Huard J, Clemens P, Stolz D, Guttridge D, Watkins SC, Garinis GA, Wang Y, Niedernhofer L, Robbins P. (2012). IKK/NF-κB inhibition delays DNA damage-induced senescence and aging-related degenerative diseases. **Journal of Clinical Investigation** 122(7):2601-12.
8. Garinis GA, Uittenboogaard LM, van IJcken W, Breit TM, van Steeg H, Mullenders LHF, van der Horst G, Hoeijmakers JH, Schumacher B (2009). Persistent transcription-blocking DNA lesions trigger somatic growth attenuation associated with longevity. **Nature Cell Biology** May;11(5):604-15.
9. Garinis GA, Gijsbertus van der Horst, Hoeijmakers JH (2008). DNA damage and aging: new-age ideas for an age-old problem. **Nature Cell Biology** 10(11):1241-7). **Citations: 143.** (Impact factor: 19.679)
10. Schumacher B, van der Pluijm I, Moorhouse MJ, Rasile Robinson A, Suh Y, Breit TM, van Steeg H, Niedernhofer LJ, van Ijcken W, Bartke A, Spindler SR, Hoeijmakers JHJ, van der Horst GTJ and Garinis GA (2008). Delayed and accelerated aging share common longevity assurance mechanisms. **PLoS Genetics** 15;4(8):e1000161.
11. Schumacher B, Garinis GA and Hoeijmakers JA (2008). Age to Survive: DNA damage and aging. **Trends in Genetics** 24(2):77-85.
12. van der Pluijm I*, Garinis GA*, Brandt RMC, Gorgels TGMF, Wijnhoven SW, Diderich KEM, Mitchell JR, van Oostrom C, Beems R, Niedernhofer LJ, Velasco S, Friedberg EC, Tanaka K, van Steeg H, Hoeijmakers JHJ and van der Horst GTJ (2007). Impaired Genome Maintenance Suppresses the GH/IGF1 Axis in Cockayne Syndrome Mice. **PLoS Biology** 12;5(1):e2. *Equal contribution.
13. Hanada K, Vermeij M, Garinis GA, de Waard MC, Kunen MGS, Maas A, Duncker DJ, Meijers C, Kanaar R, Essers J (2007). Reduction of Fibulin-4 expression affects elastic fibre development and results in aortic valve abnormalities and aneurysm. **Circulation Research** 16;100(5):738-46.
14. Niedernhofer LJ, Garinis GA, Raams A, Appeldoorn E, Lalai AS, Odijk H, Oostendorp R, Ahmad A, Robinson AR, Nair P, Calder R. Brent, van Leeuwen W, Theil AF, Vermeulen W, van der Horst GTJ, Meinecke P, Kleijer WJ, Vijg J, Jaspers NGJ, Hoeijmakers JHJ (2006). A new progeroid syndrome reveals that genotoxic stress suppresses the somatotroph axis. **Nature** 21;444(7122):1038-43.
15. Jans J*, Garinis GA*, Schul W, van Oudenaren A, Moorhouse M, Smid M, Sert Y, van der Velde A, Rijkse Y, de Gruijl FR, van der Spek PJ, Yasui A, Hoeijmakers JHJ, Leenen P, van der Horst GTJ (2006). Differential role of basal keratinocytes in UV-induced immunosuppression and skin cancer. **Mol Cell Biol.** 26(22):8515-26. *Equal contribution.
16. Garinis GA, Mitchell JR, Moorhouse MJ, Hanada K, de Waard H, Vandeputte D, Jans J, Brand K, Smid M, van der Spek PJ, Hoeijmakers JH, Kanaar R, van der Horst GT (2005). Transcriptome analysis reveals cyclobutane pyrimidine dimers as a major source of UV-induced DNA breaks. **EMBO J.** 16; 24(22): 3952-62.

18. Other Publications

17. Garinis GA, Schwer B, Schumacher B (2017). Editorial: DNA damage & immunity. *Mech Ageing Dev.* 2017 Apr 23. pii: S0047-6374(17)30097-0.
18. Stratigi K, Chatzidoukaki O, Garinis GA (2016). DNA damage-Induced Inflammation and Nuclear Architecture. *Mech Ageing Dev.* pii: S0047-6374(16)30175-0. doi: 10.1016/j.mad.2016.09.008.
19. Ioannidou A, Goulielmaki E, Garinis GA (2016). DNA Damage: From Chronic Inflammation to Age-Related Deterioration. *Front Genet.* 25;7:187. Review.
20. Zacharioudaki E, Housden BE, Garinis G, Stojnic R, Delidakis C, Bray SJ (2016). Genes implicated in stem cell identity and temporal programme are directly targeted by Notch in neuroblast tumours. *Development.* 15;143(2):219-31.
21. Visser WE, Bombardieri CR, Zevenbergen C, Barnhoorn S, Ottaviani A, van der Pluijm I, Brandt R, Kaptein E, van Heerebeek R, van Toor H, Garinis GA, Peeters RP, Medici M, van Ham W, Vermeij WP, de Waard MC, de Krijger RR, Boelen A, Kwakkel J, Kopchick JJ, List EO, Melis JP, Darras VM, Dollé ME, van der Horst GT, Hoeijmakers JH, Visser TJ (2016). Tissue-Specific Suppression of Thyroid Hormone Signaling in Various Mouse Models of Aging. *PLoS One* 8;11(3):e0149941.
22. Karakasilioti I, Garinis GA (2014). Tissue-specific aging: a tale of functional asymmetry. *Ageing (Albany NY)* ;6(1):7-8.
23. Charlton JJ, Chatzidakis I, Tsoukatou D, Boumpas DT, Garinis GA, Mamalaki C (2013). Programmed death-1 shapes memory phenotype CD8 T cell subsets in a cell-intrinsic manner. *J Immunol*;190(12):6104-14.
24. Gregg SQ, Gutiérrez V, Robinson AR, Woodell T, Nakao A, Ross MA, Michalopoulos GK, Rigatti L, Rothermel CE, Kamileri I, Garinis GA, Stolz DB, Niedernhofer LJ (2012). A mouse model of accelerated liver aging caused by a defect in DNA repair. *Hepatology*;55(2):609-21.
25. Garinis GA, Schumacher B (2009). Transcription-blocking DNA damage in aging and longevity. *Cell Cycle*;8(14):2134-5.
26. Schumacher B, Hoeijmakers JH, Garinis GA (2009). Sealing the gap between nuclear DNA damage and longevity. *Mol Cell Endocrinol*;299(1):112-7.
27. Garinis GA. Nucleotide excision repair deficiencies and the somatotrophic axis in aging (2008). *Hormones* 7(1):9-16.
28. Kurek D, Garinis GA, van Doorninck JH, van der Wees J, Grosveld FG (2007). Transcriptome analysis reveals aberrant Gata3-dependent signalling pathways in murine epidermis and hair follicles. *Development* 134(2):261-72. Citations: 47
29. Gorgels T, van der Pluijm I, Brandt RMC, Garinis GA, van Steeg H, van den Aardweg G, Jansen GH, Ruijter JM, Bergen A, van Norren D, Hoeijmakers JH, van der Horst GTJ (2007). Retinal degeneration and ionizing radiation hypersensitivity in a mouse model for Cockayne syndrome. *Mol Cell Biol.* 27(4):1433-41. Citations: 46
30. Garinis GA, Patil CK, Schumacher B (2007). The molecular basis of aging": the Boehringer Ingelheim Fonds 95th International Titisee Conference. *Mech Ageing* 128(7-8):469-75
31. van de Ven M, Andressoo JO, Holcomb VB, Hasty P, Suh Y, van Steeg H, Garinis GA, Hoeijmakers JH, Mitchell JR (2007). Extended longevity mechanisms in short-lived progeroid mice: identification of a preservative stress response associated with successful aging. *Mech Ageing Dev* 128(1):58-63.
32. Garinis GA, Judith J and van der Horst GTJ (2006). Photolyases: capturing the light to battle skin cancer. *Future Oncol.* 2(2): 191-9.
33. Sklavounou-Andrikopoulou A, Chrysomali E, Iakovou M, Garinis GA, Karameris A. Elevated serum levels of the apoptosis related molecules TNF-alpha, Fas/Apo-1 and Bcl-2 in oral lichen planus (2004). *J Oral Pathol Med.* 33(7): 386-90.
34. Menounos PG, Garinis GA, Patrinos GP (2003). Glucose-6-phosphate dehydrogenase deficiency does not result from mutations in the promoter region of the G6PD gene. *J Clin Lab Anal.* 17(3): 90-2.
35. Garinis GA, Manolis EN, Spanakis NE, Patrinos GP, Peros G, Menounos PG (2003). High frequency of concomitant nm23-H1 and E-cadherin transcriptional inactivation in primary non-inheriting colorectal carcinomas. *J Mol Med.* 81(4): 256-63.
36. Garinis GA, Spanakis NE, Menounos PG, Manolis EN, Peros G (2003). Transcriptional impairment of beta-catenin/E-cadherin complex is not associated with beta-catenin mutations in colorectal carcinomas. *Br J Cancer.* 88(2): 206-9.
37. Garinis GA, Menounos PG, Spanakis NE, Papadopoulos K, Karavitis G, Parassi I, Christeli E, Patrinos GP, Manolis EN, Peros G (2002). Hypermethylation-associated transcriptional silencing of E-cadherin in primary sporadic colorectal carcinomas. *J Pathol.* 198(4): 442-9.
38. Garinis GA, Patrinos GP, Spanakis NE, Menounos PG (2002). DNA hypermethylation: when tumour suppressor genes go silent. *Hum Genet.* 111(2): 115-27.

39. Spanakis NE, Garinis GA, Alexopoulos EC, Patrinos GP, Menounos PG, Sklavounou A, Manolis EN, Gorgoulis VG, Valis D (2002). Cytokine serum levels in patients with chronic HCV infection. **J Clin Lab Anal.** 16(1): 40-6.
40. Garinis GA, Gorgoulis VG, Mariatos G, Zacharatos P, Kotsinas A, Liloglou T, Foukas P, Kanavaros P, Kastrinakis NG, Vassilakopoulos T, Vogiatzi T, Field JK, Kittas C (2001). Association of allelic loss at the FHIT locus and p53 alterations with tumour kinetics and chromosomal instability in non-small cell lung carcinomas (NSCLCs). **J Pathol.** 193(1): 55-65.
41. Gorgoulis VG, Zacharatos P, Kotsinas A, Mariatos G, Liloglou T, Vogiatzi T, Foukas P, Rassidakis G, Garinis G, Ioannides T, Zoumpourlis V, Bramis J, Michail PO, Asimacopoulos PJ, Field JK Kittas C (2000). Altered expression of the cell cycle regulatory molecules pRb, p53 and MDM2 exert a synergetic effect on tumor growth and chromosomal instability in non-small cell lung carcinomas (NSCLCs). **Mol Med.** 6(3): 208-37.
42. Menounos P, Zervas C, Garinis G, Doukas C, Kolokithopoulos D, Tegos C, Patrinos GP (2000). Molecular heterogeneity of the glucose-6-phosphate dehydrogenase deficiency in the Hellenic population. **Hum Hered.** 50(4): 237-41.
43. Garinis G, Patrinos GP, Menounos P, Spanakis N, Gorgoulis VG, Theodorou V, Ioannidis T, Karameris A, Valis D (2000). Evaluation of a minipool reverse transcription-PCR screening method for the detection of hepatitis C virus infection in hemodialysis patients. **Clin Chem.** 46(4):583-4.
44. Patrinos GP, Garinis G, Kounelis S, Kouri E, Menounos P (1999). A novel 23-bp deletion in exon 5 of the p53 tumor suppressor gene. **J Mol Med.** 77(9):686-9.
45. Spanakis NE, Gorgoulis V, Mariatos G, Zacharatos P, Kotsinas A, Garinis G, Trigidou R, Karameris A, Tsimara-Papastamatiou H, Kouloukousa M, Manolis EN, Kittas C (1999). Aberrant p16 expression is correlated with hemizygous deletions at the 9p21-22-chromosome region in non-small cell lung carcinomas. **Anticancer Res.** 19(3A): 1893-9.
46. Garinis G, Spanakis N, Theodorou V, Gorgoulis V, Manolis E, Karameris A, Valis D (1999). Comparison of the enzyme-linked immunosorbant assay III, recombinant immunoblot third generation assay, and polymerase chain reaction method in the detection of hepatitis C virus infection in haemodialysis patients. **J Clin Lab Anal.** 13(3):122-5.

19. Book Chapters

1. Ismene Karakasilioti, Anna Ioannidou and George A. Garinis (2014). The “Omics” of Aging: Insights from Genomes upon Stress. *Molecular Aspects of Aging: Understanding Lung Aging*, First Edition. Edited by Mauricio Rojas, Silke Meiners and Claude Jourdan LeSaux. **John Wiley & Sons, Inc.**
2. George A. Garinis, Panayiotis G. Menounos, George P. Patrinos (2005). Mutation detection by single strand conformation polymorphism and heteroduplex analysis. Patrinos and Ansorge, *Molecular Diagnostics: past, present, and future*, **Copyright Elsevier**.
3. George P. Patrinos and George A. Garinis (2004). *Molecular Diagnostics of Neurogenetic disorders. Recent research developments in neuroscience*, **Neuroscience, Vol.1, Research Signpost**.