

Curriculum Vitae

NAME	POSITION TITLE		
Alexandros Georgakilas, PhD	Professor (Tenured), Physics Department, School of Applied Sciences, National Technical University of Athens, Greece		
DNA Damage Laboratory			
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	MM/YY	FIELD OF STUDY
National and Kapodistrian University of Athens	B.S.	1993	Physics
National and Kapodistrian University of Athens	Ph.D	1998	Radiation Biology

A. Personal Statement

Dr. Alexandros Georgakilas is currently a Professor in the Department of Physics, School of Applied Mathematics and Physical Sciences, National Technical University of Athens (NTUA), Greece. At Brookhaven National Laboratory, USA, Dr. Georgakilas completed post-doctoral research as a research associate in the Biology Department from 2001-2003 under the supervision of Dr. Betsy Sutherland and developed his own research laboratory as an Associate Professor of Radiation Biology with tenure at Biology Department, East Carolina University (Greenville, NC) until 2012.

Overall, Dr. Georgakilas has been an active non-stop researcher in the field of Radiation Biophysics for more than twenty (25) years. He has also received awards such as the Young Investigator Travel Award from Radiation Research Society, Radiation Research Society SIT Award, ECU Thomas Harriot College Research Award, and the prestigious erashima Award from Japan Radiation Research Society. His work at ECU as Principal Investigator (PI) has been funded by various sources like East Carolina University, NCI, NC Biotechnology Center and Union for International Cancer Control (UICC).

His quality research work has been published in more than one hundred (160) peer-reviewed high profile journals like *Lancet*, *Genome Biology*, *Radiation Research*, *Cancer Letters*, *Cancer Research*, *Pharmacology Therapeutics*, *Free Radical Biology and Medicine*, *Journal of Cell Biology* and *Proceedings of National Academy of Sciences USA*, *Seminars in Cancer Biology* and about 21000 citations.

Editorial positions: Last but not least and in recognition of his major contributions in the field he has been appointed the Editor-in-Chief in the Journal of Biochemical Technology 2012-2015, Associate Editor Position for Cancer Letters, Radiation Research, and member of the Editorial Board in MDPI Journals: Cancers, Antioxidants, and several other well-recognized journals. Dr. Georgakilas was invited as a Guest Editor for a Special Issue of Frontiers in Genetics, Seminars in Cancer Biology, Mutation Research, Cancers, Cancer Letters and Current Molecular Medicine and has hold invited Editorial positions for different book projects (Science Publishers and InTech).

Web page: <http://dielectricsgroup.physics.ntua.gr/index.php/about-medical-physics-group/>



Accessed 22/7/2026 **All** **Since 2021**

Total citations	21284	11219
h-index	66	47
i10-index	142	117

https://scholar.google.gr/citations?hl=el&user=MAD6KTcAAAAJ&view_op=list_works

Keywords: Applied Physics, Biophysics, Radiation Biology, DNA Damage and Repair, Bioinformatics, Systems Biology

INTERNATIONAL IMPACT of my research in relation to the public directory on the Clarivate Analytics website which includes scientists with an impact of the top 1% of Web of Science in the year 2020, 2021, 2022, 2023, 2024, 2025 In relation to the ranking in the top 2% , based on weighted reports from 1996–2022 (with Scopus data - <https://data.mendeley.com/datasets/btchxktzyw/3>

Overview of scientific and professional record

I. Participation in Research Projects: Main coordinator/partner in international and national projects.

II. Funded grants the last 10 years:

Ongoing-Past Research Projects (NTUA):

1. Title: "Processing of oxidatively induced clustered DNA lesions under a double strand break repair deficiency in human tumor cells". Source: *Marie Curie Career Integration Grants (CIG)* —EU (Proposal no: 303514). Budget: 150,000 euros; Role: Principal Investigator (PI: 20%); Dates: 1/6/2012-30/5/2016.
2. Title: "Research and development of novel multifunctional polymer nanocomposites". Source: *THALIS-Greek Secretariat Research and Technology (Proposal no: 356 MPN)*. Budget: 510,000 euros; Role: co-Principal Investigator (co-PI: 2.5%); Dates: 1/8/2012-30/7/2016.
3. Title: "Mechanistic insights on the etiology of space radiation-induced chromosomal aberrations and risk for carcinogenesis using conventional and interphase cytogenetics". Source: European Space Agency (ESA-AO-10-IBER-24). Budget: 375,000 euros. Role: co-Principal Investigator (co-PI: 2.5%). Dates: 1/1/2013-30/12/2015. Greek Secretariat of Research and Technology.
4. Title: "Biomimetic radical chemistry". Source COST ACTION NUMBER: CM1201. Budget: 740,000 euros. Role: co-PI and regional coordinator for Greece (PI: Dr. C. Chatgililoglu-Italy). Dates: 1/12/2012-30/12/2016.
5. Title: "DNA Damage and Repair and Their Relevance to Carcinogenesis". Source German Academic Exchange Service (DAAD) (No 57339330). **Budget: 200.000 euros**. Role co-PI (PI: Professor G.Iliakis, University of Essen). Dates: 1/5/201-30/4/2019.
6. Title: "Effects of ionizing radiation on humans, complex DNA damage and systemic effects". Source Greek National Funds for Research and Development ESPA (MIS 5004875). **Budget: 100.000 euros** PI: A. Georgakilas. Dates: 1/5/2018-1/9/2020.
7. Title: "DNA Damage and Repair and Their Relevance to Carcinogenesis". Source German Academic Exchange Service (DAAD) (No 57339330). Budget: **220.000 euros**. Role co-PI (PI: Professor G.Iliakis, University of Essen). Dates: 1/5/2019-30/4/2025.
8. Title: "21GRD02 BIOSPHERE: Metrology for Earth Biosphere: Cosmic rays, ultraviolet radiation and fragility of ozone shield". Source EURAMET MSU (No SRT-v17). **Budget: ~2.5 M Euros**. Role



co-PI. (PI: Dr. Faton S. Krasniqi Physikalisch-Technische Bundesanstalt-PTB). Dates: 1/11/2022-30/10/2025.

9. Title: "Development of biomarkers in radiation therapy" ELIDEK organization for research and development. Budget: 280.000 Euros 1/12/2025-30/11/2028. PI: K. Theodorou (University of Thessaly). Role: co-PI

Completed Research Projects (ECU 2004-2011): A total funding level of \$600k has been received from different organizations: NIH, NC Biotechnology Center Grant, ECU Excellence Award Program, International Union Against Cancer (UICC).

III. Publications: 165 peer-reviewed journal papers, 4 book chapters, 56 refereed papers in conference proceedings, more than 20000 citations, average impact factor 7.5, h-index = 66.

IV. Conference Participation/Attendance: More than 60 oral presentations at international conferences, 30 invited talks and more than 40 presentations at national conferences (invited talks and posters). Chairing in 10 international meetings sessions.

Recent presentations 2026

1. Georgakilas AG, Hellweg C, Zanni V. RadPhysBio: A Radiobiological Database for Predicting Human Cell Survival under Space-Relevant Ionizing Radiation. Poster SMT-223 (Abstract F2.1-0031-26). Presented at the 46th COSPAR Scientific Assembly, Florence, Italy, 1–9 August 2026.
2. Saganti P, Georgakilas AG, et al. Long-Duration Radiation Biology Studies in Space and Simulated Microgravity. Oral presentation (F2.2-0016-26), 46th COSPAR Scientific Assembly, Florence, Italy, August 2026.

V. Teaching Activities (ECU, USA and NTUA, ATHENS, GREECE): Have taught General Biology, Genetics, Molecular Genetics, Radiation Biology (MD/PhD students), Cellular Physiology, Biophysics and Basic concepts of Physics.

VI. Students supervision:

ECU-USA: A total number of 9 graduate students (2 PhD and 8 MSc) and 20 undergraduate have been supervised in the ECU period (2004-2011).

While at NTUA, Dr. Georgakilas has 5 PhD, 5 MSc and 6 undergraduate students in his team working with him. 3 PhD students completed (Dr. Z.Nikitaki, Dr. I.Mavragani, and Dr. I. Tremi).

Languages: Greek (mother tongue), English and French (fluent).

B. Positions and Employment

2000-2001	: Postdoctoral Res. Associate, Physics Dep., UOA, Athens, Greece
2001-2003	: Postdoctoral Res. Associate, Biology Dep., Brookhaven National Lab., NY, USA
2004-2010	: Assistant Professor, Biology Dep., East Carolina University, Greenville, NC, USA
2008-2011	: Adjunct Assist. Professor, Chemistry Department, East Carolina University, NC, USA
2010-2012	: Associate Professor with tenure, Biology Dep., East Carolina University, NC, USA
2012-2016	: Assistant Professor, Physics Dep., School of Applied Sciences, National Technical University, Athens, Greece
2016-2020	: Associate Professor, Physics Dep., School of Applied Sciences, National Technical University, Athens, Greece
2020-present	: Professor, Physics Dep., School of Applied Sciences, National Technical University, Athens, Greece



C. Key representative publications the last 15 years (out of 155 total, 78 as a senior corresponding author) <https://scholar.google.gr/citations?user=MAD6KTcAAAAJ&hl=el>

Pubmed: <https://www.ncbi.nlm.nih.gov/pubmed/?term=GEORGAKILAS+A>

Papers in peer-reviewed Journals of Dr. Georgakilas

2026

- [1] Villano F, Elia VC, Vitale E, d'Alesio V, Ametrano G, Fede F, Formicola E, Georgakilas AG, Muto P, Serra M, Arena C, Manti L. Light Quality Modulates the Antioxidant Properties of "Microtom" Fruits: A Pilot Study Testing the Radioprotective Effect on Human Cells. *Int J Mol Sci*. 2026 Feb 26;27(5):2184. doi: 10.3390/ijms27052184.
- [2] Kalospyros SA, Gkikoudi A, Koutsostathis A, Adamopoulou A, Vasilopoulos SN, Rangos V, Stylianou-Markidou E, Pantalos I, Koumenis C, Georgakilas AG. Radiobiological and Clinical Advantages of Proton Therapy in Modern Cancer Treatment. *Cancers (Basel)*. 2026 Mar 9;18(5):885. doi: 10.3390/cancers18050885.
- [3] Vasilopoulos SN, Tremi I, Kotta-Loizou I, Gkikoudi A, Tsitsilonis OE, Havaki S, Georgakilas AG. Replication Stress in Cancer: Mechanistic Insights and Therapeutic Opportunities for Radiosensitization. *Curr Issues Mol Biol*. 2026 Jan 7;48(1):67. doi: 10.3390/cimb48010067
- [4] Büyükkılıç Ş, Alotaibi H, Georgakilas AG, Pavlopoulou A. Uncovering EMT-Associated Molecular Mechanisms Through Integrative Transcriptomic and Machine Learning Analyses. *Front Biosci (Landmark Ed)*. 2026 Jan 22;31(1):48085. doi: 10.31083/FBL48085.
- [5] Parousis-Paraskevas, O., Gkikoudi, A., Wojcik, A., & Georgakilas, A. G. (2026). Modeling the biological effects of combined radiation exposures. *International Journal of Radiation Biology*, 1–23. <https://doi.org/10.1080/09553002.2026.2699720>.
- [6] Gkikoudi A, Triantopoulou S, Markellou E, Xynou V, Vasilopoulos SN, Myronakis M, Laiakis EC, Theodorou K, Terzoudi GI, Georgakilas AG. From Cellular Radiosensitivity to Precision Radiotherapy: Integrating Functional Assays, Genomics, and Clinical Modeling. *Cancers (Basel)*. 2026 Jun 2;18(11):1823. doi: 10.3390/cancers18111823.
- [7] Zonitsas, S.; Gkikoudi, A.; Kaperoni, K.; Triantopoulou, S.; Matsades, P.G.; Diamantaki, D.; Adamopoulou, A.; Pantalos, I.; Koumenis, C.; Axiotis, M.; et al. Development and Evaluation of a Proton Irradiation Setup for Radiobiological Studies Using Low-Energy Protons with a Polyenergetic Spectrum (0–5.5 MeV, Mean 4.1 MeV). *Radiation* **2026**, *6*, 7. <https://doi.org/10.3390/radiation6010007>.
- [8] Georgakilas AG, Vasilopoulos SN, Bigiş EZ, Kotta-Loizou I, Pavlopoulou A. Conserved host-exclusive oligonucleotide motifs enriched in pathogenic genes of human oncogenic viruses. *Virology*. 2026 Aug 12;624:111048. doi: 10.1016/j.virol.2026.111048. Epub ahead of print. PMID: 42603391.

2025

- [1] R. Franco, A. Garcia-Garcia, T.B. Kryston, A.G. Georgakilas, M.I. Panayiotidis, A. Pappa, Oxidative stress and redox signaling in carcinogenesis, *Molecular Basis of Oxidative Stress: Chemistry, Toxicology, Disease Pathogenesis, Diagnosis, and Therapeutics*, (2025) 213-246.



- [2] A. Gkikoudi, G. Manda, C. Beinke, U. Giesen, A. Al-Qaaod, E.-M. Dragnea, M. Dobre, I.V. Neagoe, T. Sangsuwan, S. Haghdooost, Synergistic Effects of UVB and Ionizing Radiation on Human Non-Malignant Cells: Implications for Ozone Depletion and Secondary Cosmic Radiation Exposure, *Biomolecules*, 15 (2025) 536.
- [3] S. Logotheti, S.N. Vasilopoulos, I. Tremi, A. Gkikoudi, M. Fragkos, A. Pavlopoulou, S. Havaki, A.G. Georgakilas, The DNA Damage Response as an Auxiliary Indicator of Senescence in Cancer: A User-Friendly Toolkit of Markers and Detection Methods, in: *Oncogene-Induced Senescence: Methods and Protocols*, Springer US New York, NY, 2025, pp. 83-112.
- [4] V. Pierrard, D. Bolsée, A. Winant, A. Al-Qaaod, F. Krasniqi, M.P. de Bonhome, E. Botek, L. Van Laeken, D. Sapundjiev, R. Van Malderen, BIOSPHERE measurement campaign from January 2024 to March 2024 and in May 2024: Effects of the solar events on the radiation belts, UV radiation and ozone in the atmosphere, *AIMS Geosciences*, 11 (2025) 117-154.
- [5] I.I. Verginadis, D.E. Citrin, B. Ky, S.J. Feigenberg, A.G. Georgakilas, C.E. Hill-Kayser, C. Koumenis, A. Maity, J.D. Bradley, A. Lin, Radiotherapy toxicities: mechanisms, management, and future directions, *The Lancet*, (2025).
- [6] Parousis-Paraskevas, O.; Gkikoudi, A.; Al-Qaaod, A.; Vasilopoulos, S.N.; Manda, G.; Beinke, C.; Haghdooost, S.; Terzoudi, G.I.; Krasniqi, F.; Georgakilas, A.G. Combined Radiations: Biological Effects of Mixed Exposures Across the Radiation Spectrum. *Biomolecules* **2025**, *15*, 1282. <https://doi.org/10.3390/biom15091282>

2024

- [1] S.S. Asfa, R. Arshinchi Bonab, O. Önder, M. Uça Apaydın, H. Döşeme, C. Küçük, A.G. Georgakilas, B.M. Stadler, S. Logotheti, S. Kale, Computer-Aided Identification and Design of Ligands for Multi-Targeting Inhibition of a Molecular Acute Myeloid Leukemia Network, *Cancers*, 16 (2024) 3607.
- [2] A. Gkikoudi, S. Vasilopoulos, C. Beinke, A. Al-Qaaod, U. Giesen, F. Krasniqi, G. Terzoudi, A. Georgakilas, O. 7.2 RADIOBIOLOGICAL EFFECTS OF PROTONS OR GAMMA RAYS AND UVB RADIATION ON HUMAN CELLS, *Physica Medica*, 127 (2024) 104567.
- [3] A.D. Katsiki, P.E. Karatzas, H.-X. De Lastic, A.G. Georgakilas, O. Tsitsilonis, C.E. Vorgias, DExplore: An Online Tool for Detecting Differentially Expressed Genes from mRNA Microarray Experiments, *Biology*, 13 (2024) 351.
- [4] A. Koutsostathis, V. Rangos, A. Adamopoulou, C. Koumenis, A. Georgakilas, P. 1.19 FLASH RADIATION THERAPY: A REVIEW ON THE ULTRA-HIGH DOSE RATE PARADIGM OF RADIOTHERAPY, *Physica Medica*, 127 (2024) 104641.
- [5] S. Logotheti, A. Pavlopoulou, H.K. Rudsari, A.-M. Galow, Y. Kafalı, E. Kyrodimos, A.I. Giotakis, S. Marquardt, A. Velalopoulou, I.I. Verginadis, Intercellular pathways of cancer treatment-related cardiotoxicity and their therapeutic implications: the paradigm of radiotherapy, *Pharmacology & therapeutics*, 260 (2024) 108670.
- [6] P. Malatesta, K. Kyriakidis, M. Hada, H. Ikeda, A. Takahashi, P.B. Saganti, A.G. Georgakilas, I. Michalopoulos, Differential Gene Expression in Human Fibroblasts Simultaneously Exposed to Ionizing Radiation and Simulated Microgravity, *Biomolecules*, 14 (2024) 88.
- [7] M. Peana, A.G. Georgakilas, Metal nanoparticles in cancer: detection, diagnosis, therapy and their pharmacological assessment, in: *Frontiers Media SA*, 2024, pp. 1344197.
- [8] M.P. Souli, Z. Nikitaki, E. Spyratou, E.P. Efsthathopoulos, L. Sihver, A.G. Georgakilas, Induction of complex DNA damage after proton therapy beam irradiation to plasmid DNA and human prostate cancer cells, (2024).
- [9] I. Tremi, A. Velalopoulou, I. Verginiadis, I. Dokic, F. Fyrios, S. Havaki, V. Gorgoulis, C. Koumenis, A. Georgakilas, O. 7.1 STANDARD VS FLASH PROTON RADIATION: AN



ULTRASTRUCTURAL STUDY OF TISSUES USING TRANSMISSION ELECTRON
MICROSCOPY-TEM, *Physica Medica*, 127 (2024) 104566.

[10] A.W.K. Yeung, O. Litvinova, N.L. Bragazzi, Y. Khader, M.M. Rahman, Z. Said, R.S. Istepanian, A. Koulaouzidis, A.O. Aremu, J.M. Flanagan, Digital health and mobile health: a bibliometric analysis of the 100 most cited papers and their contributing authors, *Exploration of Digital Health Technologies*, 2 (2024).

[11] V. Zanni, D. Papakonstantinou, S.A. Kalospyros, D. Karaoulanis, G.M. Biz, L. Manti, A. Adamopoulos, A. Pavlopoulou, A.G. Georgakilas, RadPhysBio: A Radiobiological Database for the Prediction of Cell Survival upon Exposure to Ionizing Radiation, *International Journal of Molecular Sciences*, 25 (2024) 4729.

[12] S. Zonitsas, A. Gkikoudi, S. Vasilopoulos, A. Georgakopoulou, S. Chasapoglou, M. Diakaki, M. Kokkoris, A. Georgakilas, P. 7.5 DEVELOPMENT AND EVALUATION OF A PROTON IRRADIATION EXPERIMENTAL SETUP FOR USE IN HUMAN CELLS, *Physica Medica*, 127 (2024) 104707.

2023

1. Logotheti, S. and Georgakilas, A.G. (2023) More than Meets the Eye: Integration of Radiomics with Transcriptomics for Reconstructing the Tumor Microenvironment and Predicting Response to Therapy. *Cancers*, **15**, 1634.

2. S. Logotheti, T. Stiewe, A.G. Georgakilas, The Role of Human Endogenous Retroviruses in Cancer Immunotherapy of the Post-COVID-19 World, *Cancers*, **15** (2023) 5321.

3. A. Baeyens, A.M. Abrantes, V. Ahire, E.A. Ainsbury, S. Baatout, B. Baselet, M.F. Botelho, T. Boterberg, F. Chevalier, F. Da Pieve, W. Delbart, N.F.J. Edin, C. Fernandez-Palomo, L. Geenen, A.G. Georgakilas, N. Heynickx, A.D. Meade, A.J. Michaelidesova, D. Mistry, A. Montoro, C. Mothersill, A.S. Pires, J. Reindl, G. Schettino, Y. Socol, V.K. Selvaraj, P. Sminia, K. Vermeulen, G. Vogin, A. Waked, A.-S. Wozny, Basic Concepts of Radiation Biology, in: S. Baatout (Ed.) *Radiobiology Textbook*, Springer International Publishing, Cham, 2023, pp. 25-81.

4. J. Reindl, A.M. Abrantes, V. Ahire, O. Azimzadeh, S. Baatout, A. Baeyens, B. Baselet, V. Chauhan, F. Da Pieve, W. Delbart, C.P. Dobney, N.F.J. Edin, M. Falk, N. Foray, A. François, S. Frelon, U.S. Gaipl, A.G. Georgakilas, O. Guipaud, M. Hausmann, A.J. Michaelidesova, M. Kadhim, I.A. Marques, M. Milic, D. Mistry, S. Moertl, A. Montoro, E. Obrador, A.S. Pires, R. Quintens, N. Rajan, F. Rödel, P. Rogan, D. Savu, G. Schettino, K. Tabury, G.I. Terzoudi, S. Triantopoulou, K. Viktorsson, A.-S. Wozny, Molecular Radiation Biology, in: S. Baatout (Ed.) *Radiobiology Textbook*, Springer International Publishing, Cham, 2023, pp. 83-189.

5. E.A. Ainsbury, A.M. Abrantes, S. Baatout, A. Baeyens, M.F. Botelho, B. Frey, N. Foray, A.G. Georgakilas, F.M. Lyng, I.A. Marques, A.D. Meade, M. Milic, D. Mistry, J.F. Monaghan, A. Montoro, A.S. Pires, G.I. Terzoudi, S. Triantopoulou, K. Viktorsson, G. Vogin, Individual Radiation Sensitivity and Biomarkers: Molecular Radiation Biology, in: S. Baatout (Ed.) *Radiobiology Textbook*, Springer International Publishing, Cham, 2023, pp. 387-424.

2022



1. Tremi, I., Havaki, S., Georgitsopoulou, S., Terzoudi, G., Lykakis, I.N., Iliakis, G., Georgakilas, V., Gorgoulis, V.G. and Georgakilas, A.G. (2022) Biological Response of Human Cancer Cells to Ionizing Radiation in Combination with Gold Nanoparticles. *Cancers*, **14**, 5086.
2. Spyratou, E., Ploussi, A., Alafogiannis, P., Katifelis, H., Apostolopoulou, S., Bagenakis, G., Rammos, S., Papagiannis, I., Gazouli, M., Seimenis, I. *et al.* (2022) FDXR Gene Expression after in Vivo Radiation Exposure of Pediatric Patients Undergoing Interventional Cardiology Procedures. *Frontiers in Bioscience Landmark Edition*, **27**, 255-261.
3. Posani, E., Dilucca, M., Forcelloni, S., Pavlopoulou, A., Georgakilas, A.G. and Giansanti, A. (2022) Temporal evolution and adaptation of SARS-CoV-2 codon usage. *Frontiers Biosciences Landmark Edition*, **27**.
4. Ozkur, M., Benlier, N., Takan, I., Vasileiou, C., Georgakilas, A.G., Pavlopoulou, A., Cetin, Z. and Saygili, E.I. (2022) Ginger for Healthy Ageing: A Systematic Review on Current Evidence of Its Antioxidant, Anti-Inflammatory, and Anticancer Properties. *Oxidative Medicine and Cellular Longevity*, **2022**, 4748447.
5. Nikitaki, Z., Velalopoulou, A., Zanni, V., Tremi, I., Havaki, S., Kokkoris, M., Gorgoulis, V.G., Koumenis, C. and Georgakilas, A.G. (2022) Key biological mechanisms involved in high-LET radiation therapies with a focus on DNA damage and repair. *Expert Reviews in Molecular Medicine*, **24**, e15.
6. Makrantonis, P., Tezari, A., Stassinakis, A.N., Paschalis, P., Gerontidou, M., Karaikos, P., Georgakilas, A.G., Mavromichalaki, H., Usoskin, I.G., Crosby, N. *et al.* (2022) Estimation of Cosmic-Ray-Induced Atmospheric Ionization and Radiation at Commercial Aviation Flight Altitudes. *Applied Sciences*, **12**, 5297.
7. Logotheti, S., Pavlopoulou, A., Marquardt, S., Takan, I., Georgakilas, A.G. and Stiewe, T. (2022) p73 isoforms meet evolution of metastasis. *Cancer Metastasis Rev.*
8. Fernandez-Palomo, C., Nikitaki, Z., Djonov, V., Georgakilas, A.G. and Martin, O.A. (2022) Non-Targeted Effects of Synchrotron Radiation: Lessons from Experiments at the Australian and European Synchrotrons. *Applied Sciences*, **12**, 2079.
9. Chalkia, M., Arkoudis, N.-A., Maragkoudakis, E., Rallis, S., Tremi, I., Georgakilas, A.G., Kouloulis, V., Efstathopoulos, E. and Platoni, K. (2022) The Role of Ionizing Radiation for Diagnosis and Treatment against COVID-19: Evidence and Considerations. *Cells*, **11**, 467.
10. Birmpilis, A.I., Paschalis, A., Mourkakis, A., Christodoulou, P., Kostopoulos, I.V., Antimissari, E., Terzoudi, G., Georgakilas, A.G., Armpilia, C., Papageorgis, P. *et al.* (2022) Immunogenic Cell Death, DAMPs and Prothymosin α as a Putative Anticancer Immune Response Biomarker. *Cells*, **11**.

2021

1. Tremi, I.; Spyratou, E.; Souli, M.; Efstathopoulos, E.P.; Makropoulou, M.; Georgakilas, A.G.; Sihver, L. Requirements for Designing an Effective Metallic Nanoparticle (NP)-Boosted Radiation Therapy (RT). *Cancers* **2021**, *13*, 3185.
2. Tremi, I.; Nowsheen, S.; Aziz, K.; Shankar, S.; Ventura, J.; Hatzi, V.I.; Martin, O.A.; Georgakilas, A.G. Inflammation and oxidatively induced DNA damage: A synergy leading to cancer



- development. In *Cancer 2nd Edition: Oxidative Stress and Dietary Antioxidants*, Patel, V.P.V., Ed. Elsevier -Academic Press: 2021; Vol. 2, pp. 131-147.
3. Tremi, I.; Havaki, S.; Georgitsopoulou, S.; Lagopati, N.; Georgakilas, V.; Gorgoulis, V.G.; Georgakilas, A.G. A Guide for Using Transmission Electron Microscopy for Studying the Radiosensitizing Effects of Gold Nanoparticles In Vitro. *Nanomaterials (Basel)* **2021**, *11*, doi:10.3390/nano11040859.
 4. Toy, H.I.; Karakulah, G.; Kontou, P.I.; Alotaibi, H.; Georgakilas, A.G.; Pavlopoulou, A. Investigating Molecular Determinants of Cancer Cell Resistance to Ionizing Radiation Through an Integrative Bioinformatics Approach. *Front Cell Dev Biol* **2021**, *9*, 620248, doi:10.3389/fcell.2021.620248.
 5. Theofylaktou, D.; Takan, I.; Karakulah, G.; Biz, G.M.; Zanni, V.; Pavlopoulou, A.; Georgakilas, A.G. Mining Natural Products with Anticancer Biological Activity through a Systems Biology Approach. *Oxidative Medicine and Cellular Longevity* **2021**, *2021*, 9993518, doi:10.1155/2021/9993518.
 6. Spyropoulou, Z.; Papaspyropoulos, A.; Lagopati, N.; Myrianthopoulos, V.; Georgakilas, A.G.; Fousteri, M.; Kotsinas, A.; Gorgoulis, V.G. Cockayne Syndrome Group B (CSB): The Regulatory Framework Governing the Multifunctional Protein and Its Plausible Role in Cancer. *Cells* **2021**, *10*, doi:10.3390/cells10040866.
 7. Prasanna, P.G.; Citrin, D.E.; Hildesheim, J.; Ahmed, M.M.; Venkatachalam, S.; Riscuta, G.; Xi, D.; Zheng, G.; van Deursen, J.; Goronzy, J., et al. Therapy-Induced Senescence: Opportunities to Improve Anti-Cancer Therapy. *J Natl Cancer Inst* **2021**, 10.1093/jnci/djab064, doi:10.1093/jnci/djab064.
 8. Papakonstantinou, D.; Zanni, V.; Nikitaki, Z.; Vasileiou, C.; Kousouris, K.; Georgakilas, A.G. Using Machine Learning Techniques for Asserting Cellular Damage Induced by High-LET Particle Radiation. *Radiation* **2021**, *1*, 45-64.
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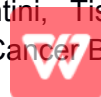
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Clinical Trials

I have participated in two clinical trials with NCI (Dr. Bonner) and Dr. Poulos (NC Hospital). Please see the following references:

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