**Peer reviewed publications**

**Articles: 12 | Citations: 409 | h-index: 8 | i10-index: 8, per** [**Google Scholar**](https://scholar.google.gr/citations?user=AsXBrIIAAAAJ&hl=el)

1. *Ionizing Radiation and Complex DNA Damage: From Prediction to Detection Challenges and Biological Significance,* IV Mavragani, Z Nikitaki, SA Kalospyros, AG Georgakilas. Cancers 11 (11), 1789, **2019.** DOI: [10.3390/cancers11111789](https://doi.org/10.3390/cancers11111789)
2. *Integrating plant and animal biology for the search of novel DNA damage biomarkers* , **Nikitaki, Z**., M. Holá, M. Donà, A. Pavlopoulou, I. Michalopoulos, K.J. Angelis, A.G. Georgakilas, A. Macovei and A. Balestrazzi*.* Mutation Research/Reviews in Mutation Research, 775: p. 21-38, **2018**. DOI: [10.1016/j.mrrev.2018.01.001](https://www.sciencedirect.com/science/article/pii/S1383574217300741?via%3Dihub)
3. *Bridging Plant and Human Radiation Response and DNA Repair through an In Silico Approach*, **Nikitaki, Z.**, A. Pavlopoulou, M. Hola, M. Dona, I. Michalopoulos, A. Balestrazzi, K.J. Angelis and A.G. Georgakilas*.* Cancers (Basel), 9(6)ν **2017.** DOI: [10.3390/cancers9060065](https://www.mdpi.com/2072-6694/9/6/65)
4. *Complex DNA Damage: A Route to Radiation-Induced Genomic Instability and Carcinogenesis*. Mavragani, I.V., **Z. Nikitaki**, M.P. Souli, A. Aziz, S. Nowsheen, K. Aziz, E. Rogakou and A.G. Georgakilas*.* Cancers (Basel), 9(7), **2017**. DOI: [10.3390/cancers9070091](https://www.mdpi.com/2072-6694/9/7/91)
5. *Non-DSB clustered DNA lesions. Does theory colocalize with the experiment?* **Nikitaki, Z.**, V. Nikolov, I.V. Mavragani, I. Plante, D. Emfietzoglou, G. Iliakis and A.G. Georgakilas Radiation Physics and Chemistry, 128: p. 26-35, **2016**. DOI: [10.1016/j.radphyschem.2016.06.020](https://www.sciencedirect.com/science/article/pii/S0969806X16301967?via%3Dihub)
6. *Measurement of complex DNA damage induction and repair in human cellular systems after exposure to ionizing radiations of varying linear energy transfer (LET),* **Nikitaki, Z.**, V. Nikolov, I.V. Mavragani, E. Mladenov, A. Mangelis, D.A. Laskaratou, G.I. Fragkoulis, C.E. Hellweg, O.A. Martin, D. Emfietzoglou, V.I. Hatzi, G.I. Terzoudi, G. Iliakis and A.G. Georgakilas,*.* Free Radical Research, p. 1-45, **2016**:. DOI: [10.1080/10715762.2016.1232484](https://www.sciencedirect.com/science/article/pii/S0167814013002910?via%3Dihub)
7. *Systemic mechanisms and effects of ionizing radiation: A new 'old' paradigm of how the bystanders and distant can become the players,* **Nikitaki, Z.**, I.V. Mavragani, D.A. Laskaratou, V. Gika, V.P. Moskvin, K. Theofilatos, K. Vougas, R.D. Stewart and A.G. Georgakilas*,* Semin Cancer Biol, 37-38: p. 77-95, **2016**. DOI: [10.1016/j.semcancer.2016.02.002](https://www.sciencedirect.com/science/article/pii/S1044579X16300049?via%3Dihub)
8. *Molecular inhibitors of DNA repair: searching for the ultimate tumor killing weapon.* **Nikitaki, Z.**, I. Michalopoulos and A.G. Georgakilas, Future Med Chem, **7**(12): p. 1-16, 2015. DOI: [10.4155/fmc.15.95](https://www.future-science.com/doi/10.4155/fmc.15.95)
9. *Stress-induced DNA Damage biomarkers: Applications and limitations,* **Nikitaki, Z**., C. Hellweg, A.G. Georgakilas and J.L. Ravanat,Front. Chem, 3: p. 35-50, **2015**. DOI: [10.3389/fchem.2015.00035](https://www.frontiersin.org/articles/10.3389/fchem.2015.00035/full)
10. *Radiation triggering immune response and inflammation*, Hekim, N., Z. Cetin, **Z. Nikitaki**, A. Cort and E.I. Saygili,*.* Cancer Lett, 368(2): p. 156-63, **2015**. DOI: [10.1016/j.canlet.2015.04.016](https://www.sciencedirect.com/science/article/pii/S0304383515002840?via%3Dihub)
11. *Emerging molecular networks common in ionizing radiation, immune and inflammatory responses by employing bioinformatics approaches,* Georgakilas, A.G., A. Pavlopoulou, M. Louka, **Z. Nikitaki**, C.E. Vorgias, P.G. Bagos and I. Michalopoulos, Cancer Lett., 368(2): p. 164-172, **2015**. DOI: [10.1016/j.canlet.2015.03.021](https://www.sciencedirect.com/science/article/pii/S030438351500213X?via%3Dihub)
12. *Non-targeted radiation effects in vivo: a critical glance of the future in radiobiology,* Hatzi, V.I., D.A. Laskaratou, I.V. Mavragani, **Z. Nikitaki**, A. Mangelis, M.I. Panayiotidis, G.E. Pantelias, G.I. Terzoudi and A.G. Georgakilas, Cancer Lett, 356(1): p. 34-42, **2015**. DOI: [10.1016/j.canlet.2013.11.018](https://www.sciencedirect.com/science/article/pii/S0304383513008288?via%3Dihub)

**Publications/posters in Conferences’ Proceeding with Reviewers**

1. **Zacharenia G. Nikitaki,** Ifigeneia V. Mavragani, Spyridon A. Kalospyros, Alexandros G. Georgakilas, *“Clustered DNA damage: A severe biological triggering effect with challenging detection”*, Seventh International Conference on Radiation in Various Fields of Research [RAD 7](http://www.rad2019.rad-conference.org/welcome.php), Herceg Novi, Montenegro, 10-14 June **2019**
2. **Zacharenia Nikitaki**, Katerina Pachnerova Brabcova, Maria P. Souli, Michaela Foster, Monika Puchalska, Patricia Pospisil and Lembit Sihver, *“Primary DNA damage induced by high energetic protons”*, [ERRS and GBS 2017](http://errs-gbs-2017.eu/wp-content/uploads/2017/09/Abstract-Book-2017-09-07.pdf), Essen, Germany, 17-21 September **2017**
3. **Zacharenia Nikitaki**, Vladimir Nikolov, Ifigeneia V. Mavragani, Ianik Plante, Dimitris Emfietzoglou, George Iliakis, Alexandros G. Georgakilas, *“Clustered DNA damage: Does Theory Co-localize with the Experiment?”*, COST Action CM1201 : Biomimetic Radical Chemistry, Bucharest-Romania, 27th - 29th September **2016**
4. **Zacharenia Nikitaki**, Georgia I. Terzoudi, George Iliakis and Alexandros G. Georgakilas, “*Current advances on the detection of complex DNA damage in cellular systems after exposure to ionizing radiation*”, COST Action CM1201 : Biomimetic Radical Chemistry & ClicGene meeting, Grenoble-France, 25th - 27th April **2016**
5. I. V. Mavragani, **Z. Nikitaki**, D. A. Laskaratou, V. Gika, V. Moskvin, A. Ntargaras, V. Kotsaris, G. Potsi, K. Skordylis, G. Terzoudi, R. D. Stewart, A. G. Georgakilas “*Identifying the key mechanisms in ionizing radiation-induced non-targeted effects*”, [14th International Workshop on Radiation Damage to DNA](https://www.acpsem.org.au/news/radiation-damage-to-dna-international-workshop-2016), Melbourne, Australia March 20 – 24, **2016**
6. **Zacharenia Nikitaki**, Ioannis Michalopoulos and Alexandros G Georgakilas, “*Bioinformatics: an inspiration tool for new insights in DNA damage repair*”, 10th Conference of the Hellenic Society for Computational Biology & Bioinformatics [(HSCBB15)](https://sites.google.com/site/hscbb15/), Biomedical Research Foundation Academy of Athens (BRFAA/IIBEAA), 09-11 October **2015**
7. Alexandros G. Georgakilas, **Zacharenia Nikitaki**, Athanasia Pavlopoulou, Maria Louka, Pantelis G. Bagos, Ioannis Michalopoulos, Constantinos E. Vorgias *“Mechanisms of response to ionizing radiation from bacteria to humans: A holistic approach”* , COST Action CM1201: Biomimetic Radical Chemistry, Inter-Working Group Meeting: WG2/WG4, Dublin-Ireland, 23-25 July **2015**
8. **Zacharenia Nikitaki** and Alexandros Georgakilas, “*Detection of Clustered DNA Lesions in Human Cells*”, İnnovation and Bioengineering in Molecular Medicine, Sanko University, Gaziantep-Turkey, 20-21 March **2015** (Invited Talk)

1. V I. Hatzi**, Z. Nikitaki**, D.A. Laskaratou, A. Mangelis, I.V. Mavragani, G.E. Pantelias, G.I. Terzoudi and A.G. Georgakilas, *“Role of Double Strand Break Repair Proteins in the Processing of Clustered DNA Lesions”*, [40th Annual Meeting of the European Radiation Research Society](http://www.irpa.net/page.asp?id=54558), Dublin, 1-5 September **2013**
2. **Z. Nikitaki**, V.I. Hatzi, D. Laskaratou, G.I. Terzoudi, G.E. Pantelias and Alexandros G. Georgakilas, “*Induction and repair of clustered DNA lesions in human tumor cells”*, 6th European Young Investigator Conference ([EYIC](http://mitr.p.lodz.pl/e_zagranica.php?id=174)), Słubice, Poland, 26 – 30 June **2013**