

CURRICULUM VITAE
ALEXANDRA GIATROMANOLAKI MD, PhD
PROFESSOR OF PATHOLOGY
DEMOCRITUS UNIVERSITY OF THRACE

PERSONAL INFORMATION

SURNAME	ALEXANDRA
NAME	GIATROMANOLAKI
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TEL.	6945901718

CURRENT POSITION(S)

2000 -2024	Professor and Head, Department of Pathology, Department of Medicine, School of Health Sciences, Democritus University of Thrace, Alexandroupolis, Greece
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PREVIOUS POSITION(S)

1996 -1998	Position Consultant and Head, Department of Pathology, Saint Nikolaos General Hospital, Crete, Greece
1998 -2012	Position Assist. and Associate Professor, Department of Pathology, Democritus University of Thrace, Alexandroupolis, Greece
2012 - 2024	Position Professor – Head, Department of Pathology, Democritus University of Thrace, Alexandroupolis, Greece

EDUCATION

1984 -1990	Medical Degree, University of Patras, Greece
1990-1994	Specialization in Pathology – Red Cross Hospital Athens, Greece
1994 -1996	Research Fellow, Department of Cellular Science, University of Oxford, UK
1994-1997	PhD in Medicine, National Kapodistrian University of Athens, Greece
2006-2007	Post-doctoral studies in hematological pathology, John Radcliffe Hospital, University of Oxford, UK,

CONFERENCES/WORKSHOPS

8 SELECTED RECENT LECTURES

<ul style="list-style-type: none"> • 4th International Meeting on Lung Cancer, Athens 13-15 September 2023. Lecture : Tumor microenvironment in NSCLC
<ul style="list-style-type: none"> • 6th Annual meeting on Cancer Biology and new molecules in cancer therapeutics. Athens, Greece. 24-26 November, 2022, <i>Lecture: Histopathological Biomarkers of immunotherapy: state of the art</i>
<ul style="list-style-type: none"> • 2nd Webinar of the Hellenic Oncological Society of Disapora. Therapeutic interventions and the Tumor Immune Microenvironment. 23 November 2022 Lecture : The immune contexture and immunity in NSCLC
<ul style="list-style-type: none"> ▪ 7th Symposium on Advances in Cancer Immunology and Immunotherapy. Athens, Greece. December 2-4 December, 2021. Lecture: The intratumoral immune landscape in breast cancer
<ul style="list-style-type: none"> ▪ 5th Annual meeting on Cancer Biology and new molecules in cancer therapeutics. Athens, Greece. 25-27 November, 2021. Lecture: State of the art of immunotherapy biomarkers
<ul style="list-style-type: none"> ▪ Summer School on Immuno-oncology 1-3 July 2021, web scientific event. Lecture: Routine biomarkers in routine practice
<ul style="list-style-type: none"> ▪ 7^ο Συνέδριο Εκπαίδευσης και Έρευνας, Αλεξανδρούπολη, 31/3/23 έως 2/4/23 <i>Ομιλία: Ανοσολογική αντίδραση στον καρκίνο – κλινικές εφαρμογές</i>
<ul style="list-style-type: none"> ▪ 8^η Πανελλήνια διημερίδα Παθολογικής Ανατομικής. Αθήνα 18-19 μαρτίου 2022. Εισήγηση: Μοριακή Παθολογική Ανατομική στην Ελλάδα – Το παρόν και το μέλλον

MEMBERSHIPS & REVIEWING ACTIVITIES

2009 - 2023	Reviewer in International Journals, including Br J Cancer, Cancer, Int J Cancer, J Pathol.
1990 - 2023	<p><i>Member of the Following Societies:</i></p> <ol style="list-style-type: none"> 1. <i>Hellenic Society of Pathology (E.E.P.A.)</i> 2. <i>Athens Society of Medical Studies</i> 3. <i>Evros Medical Council</i> 4. <i>European Society of Pathology</i> 5. <i>European School of Oncology: ex-Member of the Scientific Committee</i> 6. <i>Pathologic Society of Great Britain and Ireland, UK</i> 7. <i>Association of Clinical Pathologists, UK</i> 8. <i>Tumour and Angiogenesis Research Group</i> 9. <i>European Association of Haematopathology</i>

TEACHING ACTIVITIES

2000 - 2024	Responsible for the Teaching of the obligatory lesson “Pathology 1 and 2 for the Medical Students of the Medical School, Democritus University of Thrace
2010 - 2024	Teaching in many Master Degree classes (Translational Research, Biomedicine, Bioethics etc.), Medical School, Democritus University of Thrace and Other Universities

SUPERVISION OF GRADUATE STUDENTS & POSTDOCTORAL FELLOWS

2008 - 2024	Democritus University of Thrace, Greece: <ul style="list-style-type: none"> • Supervised 4 post-doctoral Research Scientists, • Supervisor of 6 PhD students accomplished their Thesis – currently 3 are ongoing • Member of the 3/7-member supervising committee for 37 PhD Thesis • Supervised 15 MSc students for their Thesis in various MSc Courses • Supervised 30 Graduation Thesis for the School of Molecular Biology and Genetics

FELLOWSHIPS and AWARDS

1997	Fellowship του Consiglio Nazionale delle Ricerche στο Instituto di Fisiopatologia Respiratoria, Palermo – Italy
2022 and 2023	Award for the distinction regarding the inclusion in the Stanford list (Democritus University of Thrace)

RESEARCH GRANTS

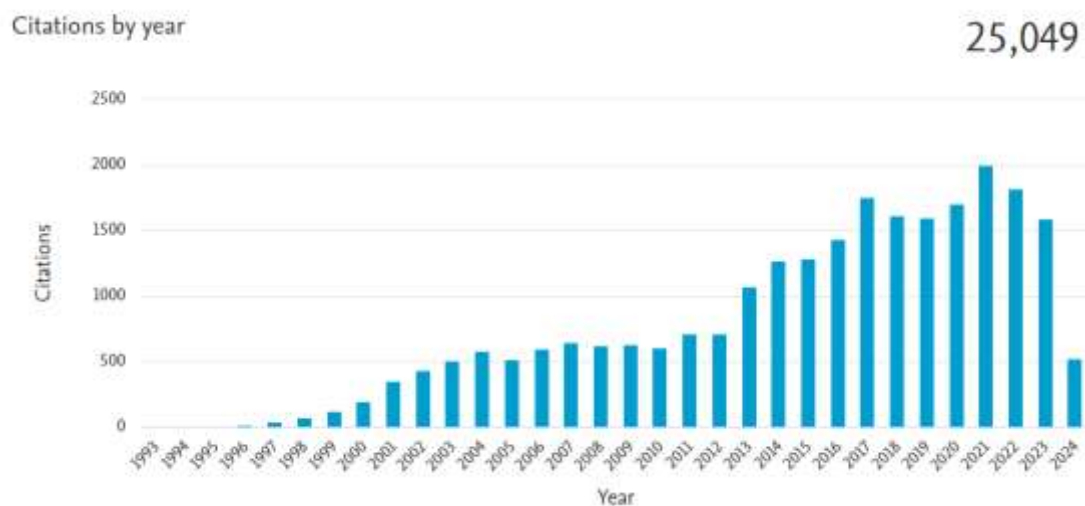
Project Title	Funding source	Period	Role of the PI
ARISTEAI I	ESPA 2007-2013	2012-2015	Responsible for WPs. Targeting Autophago-Lysosomal Kinetics for the treatment of cancer and the prevention of anti-cancer therapy toxicities
ARISTEIA II	ESPA 2007-2013	2014-2015	PI. Targeting tumor stroma and cancer cell metabolic co-operation for Lung Cancer Therapy
ΕΣΠΑ 2014-2020 / ΟΠΣ 5050187	European Social Fund- ESF) Operational Programme Human Resources Development, Education and Lifelong Learning 2014-2020.	2007-2013	PI. Tumor microenvironment in lung cancer and its effect on immune response repression

SCIENTIFIC ACHIEVEMENTS

University of Steanford Analysis of top 2% scientists
 Data for "Updated science-wide author databases of standardized citation indicators"
 Published: 08-10-2020|Version 2|DOI:10.17632/btchxktzyw.2
 Contributors: Jeroen Baas, Kevin Boyack, John Ioannidis
 PLoS Biol 18(10): e3000918. <https://data.mendeley.com/datasets/btchxktzyw/2>
 International:
 All Sciences: Ranking 35.723 (among the top 150.000 scientists)
 Biology/Medicine Ranking 19.074 (among the top 63.573 scientists)
 Cancer Ranking 1.687 (among the top 4.734 scientists)

PUBLICATIONS

Total No of publications in PUBMED 390
Citations 25.049
H-index 67



1: Kontomanolis EN, Symeonidis P, Nikolettos K, Perros P, Rody A, Tsikouras P, Nikolettos N, Giatromanolaki A. ARID1 and BRG1 Expression in Endometrial Cancer. *In Vivo*. 2024 May-Jun;38(3):1260-1265. doi: 10.21873/invivo.13563. PMID: 38688602; PMCID: PMC11059895.

2: Giatromanolaki A, Michos GD, Xanthopoulou E, Koukourakis MI. HLA-class-I expression loss, tumor microenvironment and breast cancer prognosis. *Cell Immunol*. 2024 Mar 5;399-400:104816. doi: 10.1016/j.cellimm.2024.104816. Epub ahead of print. PMID: 38507936.

3: Koukourakis IM, Gkegka AG, Giatromanolaki A, Koukourakis MI. Neoplasia-related and treatment-induced lymphopenia: impact on the outcome of chemoradiotherapy in laryngeal cancer. *Int J Radiat Biol*. 2024;100(5):736-743. doi: 10.1080/09553002.2024.2316608. Epub 2024 Feb 23. PMID: 38394349.

4: Kontomanolis E, Tsigalou C, Mitrakas A, Gkegka AG, Efraimidou E, Karamanidis D, Nikolettos K, Panagiotis T, Nikolettos N, Giatromanolaki A, Koukourakis MI.

Cytokine Plasma Levels in Breast Cancer Patients, Before and After Surgery. *J Interferon Cytokine Res.* 2024 Mar;44(3):135-142. doi: 10.1089/jir.2023.0157. Epub 2024 Feb 20. PMID: 38386538.

5: Giannopoulou E, Karakasi MV, Kouroupi M, Giatromanolaki A, Tsikouras P, Pavlidis P. Safety and efficacy of ovarian tissue autotransplantation: A systematic literature review. *Folia Med (Plovdiv).* 2023 Jun 30;65(3):362-370. doi: 10.3897/folmed.65.e89198. PMID: 38351810.

6: Papiris SA, Louvrier C, Fabre A, Kaklamanis L, Tsangaris I, Frantzeskaki F, Dimeas IE, Debray MP, Karakontaki F, Kallieri M, Kolilekas L, Daniil Z, Giatromanolaki A, Kannengiesser C, Borie R, Nathan N, Griese M, Manali ED. *CSF2RB* mutation-related hereditary pulmonary alveolar proteinosis: the "long and winding road" into adulthood. *ERJ Open Res.* 2023 Dec 18;9(6):00703-2023. doi: 10.1183/23120541.00703-2023. PMID: 38111540; PMCID: PMC10726220.

7: Koukourakis IM, Xanthopoulou E, Sgouras TI, Kouroupi M, Giatromanolaki A, Kouloulis V, Tiniakos D, Zygogianni A. Preoperative chemoradiotherapy induces multiple pathways related to anti-tumour immunity in rectal cancer. *Br J Cancer.* 2023 Nov;129(11):1852-1862. doi: 10.1038/s41416-023-02459-9. Epub 2023 Oct 14. PMID: 37838813; PMCID: PMC10667544.

8: Bekiaridou K, Kambouri K, Giatromanolaki A, Foutzitzis S, Kouroupi M, Aggelidou M, Deftereos S. Predicting Complicated Appendicitis in Children: Pros and Cons of a New Score Combining Clinical Signs, Laboratory Values, and Ultrasound Images (CLU Score). *Diagnostics (Basel).* 2023 Jul 5;13(13):2275. doi: 10.3390/diagnostics13132275. PMID: 37443669; PMCID: PMC10340468.

9: Xanthopoulou ET, Koukourakis IM, Kakouratos C, Nanos C, Kalaitzis C, Giatromanolaki A, Koukourakis MI. Irradiation-induced IFN-type-I pathway activation in prostate cancer cell lines. *Cytokine.* 2023 Sep;169:156252. doi: 10.1016/j.cyto.2023.156252. Epub 2023 Jun 8. PMID: 37301190.

10: Mitrakas AG, Giatromanolaki A, Koukourakis MI. Hypoxia and acidity regulate immune checkpoint molecule and IFN- β expression in non-small cell lung cancer cell lines. *J Recept Signal Transduct Res.* 2023 Dec;43(2):31-36. doi: 10.1080/10799893.2023.2204944. Epub 2023 Apr 26. PMID: 37099383.

11: Xanthopoulou ET, Kakouratos C, Nanos C, Gkegka AG, Kalaitzis C, Giatromanolaki A, Koukourakis MI. HIF1 α -dependent and independent pathways regulate the expression of PD-L1 in prostate cancer. *Med Oncol.* 2023 Apr 17;40(5):151. doi: 10.1007/s12032-023-02017-6. PMID: 37067635; PMCID: PMC10110727.

12: Gkegka AG, Koukourakis MI, Lambropoulou M, Giatromanolaki A. Tumor Microenvironment and Immune Response in Lip Cancer. *Cancers (Basel).* 2023 Feb 25;15(5):1478. doi: 10.3390/cancers15051478. PMID: 36900270; PMCID: PMC10001350.

13: Giannopoulou E, Karakasi MV, Kouroupi M, Ieronimaki AI, Papakonstantinou E, Giatromanolaki A, Tsikouras P, Pavlidis P. Ovarian Morphometric and Histologic Characteristics and Correlation with Clinical Factors: A Cross-Sectional Study. *J Pers Med.* 2023 Jan 28;13(2):232. doi: 10.3390/jpm13020232. PMID: 36836466; PMCID: PMC9961882.

- 14: Kottakis G, Kambouri K, Giatromanolaki A, Valsami G, Kostomitsopoulos N, Tsaroucha A, Pitiakoudis M. Effects of the Antioxidant Quercetin in an Experimental Model of Ulcerative Colitis in Mice. *Medicina (Kaunas)*. 2022 Dec 31;59(1):87. doi: 10.3390/medicina59010087. PMID: 36676712; PMCID: PMC9861512.
- 15: Gkegka AG, Koukourakis MI, Katotomichelakis M, Giatromanolaki A. Cancer Microenvironment Defines Tumor-Infiltrating Lymphocyte Density and Tertiary Lymphoid Structure Formation in Laryngeal Cancer. *Head Neck Pathol*. 2023 Jun;17(2):422-432. doi: 10.1007/s12105-022-01517-7. Epub 2022 Dec 31. PMID: 36586079; PMCID: PMC10293152.
- 16: Bekiaridou K, Kambouri K, Giatromanolaki A, Foutzitzis S, Kouroupi M, Chrysafis I, Deftereos S. The Prognostic Value of Ultrasound Findings in Preoperatively Distinguishing between Uncomplicated and Complicated Types of Pediatric Acute Appendicitis Based on Correlation with Intraoperative and Histopathological Findings. *Diagnostics (Basel)*. 2022 Sep 26;12(10):2315. doi: 10.3390/diagnostics12102315. PMID: 36292004; PMCID: PMC9600393.
- 17: Anestopoulos I, Kyriakou S, Tragkola V, Paraskevaidis I, Tzika E, Mitsiogianni M, Deligiorgi MV, Petrakis G, Trafalis DT, Botaitis S, Giatromanolaki A, Koukourakis MI, Franco R, Pappa A, Panayiotidis MI. Targeting the epigenome in malignant melanoma: Facts, challenges and therapeutic promises. *Pharmacol Ther*. 2022 Dec;240:108301. doi: 10.1016/j.pharmthera.2022.108301. Epub 2022 Oct 23. PMID: 36283453.
- 18: Giatromanolaki A, Chatzipantelis P, Contrafouris CA, Koukourakis MI. Tertiary Lymphoid Structures, Immune Response, and Prognostic Relevance in Non-Small Cell Lung Cancer. *Cancer Invest*. 2023 Jan;41(1):48-57. doi: 10.1080/07357907.2022.2136684. Epub 2022 Nov 2. PMID: 36239379.
- 19: Tsolou A, Koparanis D, Lamprou I, Giatromanolaki A, Koukourakis MI. Increased glucose influx and glycogenesis in lung cancer cells surviving after irradiation. *Int J Radiat Biol*. 2023;99(4):692-701. doi: 10.1080/09553002.2022.2113837. Epub 2022 Aug 30. PMID: 35976051.
- 20: Koukourakis IM, Gkegka AG, Xanthopoulou E, Nanos C, Giatromanolaki A, Koukourakis MI. Prognostic and Predictive Relevance of Tumor-Infiltrating Lymphocytes in Squamous Cell Head-Neck Cancer Patients Treated with Radical Radiotherapy/Chemo-Radiotherapy. *Curr Oncol*. 2022 Jun 15;29(6):4274-4284. doi: 10.3390/curroncol29060342. PMID: 35735451; PMCID: PMC9222114.
- 21: Giatromanolaki A, Gkegka AG, Pouliliou S, Biziota E, Kakolyris S, Koukourakis M. Hypoxia and anaerobic metabolism relate with immunologically cold breast cancer and poor prognosis. *Breast Cancer Res Treat*. 2022 Jul;194(1):13-23. doi: 10.1007/s10549-022-06609-0. Epub 2022 Apr 28. PMID: 35482128.
- 22: Giatromanolaki A, Mitrakas A, Anestopoulos I, Kontosis A, Koukourakis IM, Pappa A, Panayiotidis MI, Koukourakis MI. Expression of CD47 and SIRP α Macrophage Immune-Checkpoint Pathway in Non-Small-Cell Lung Cancer. *Cancers (Basel)*. 2022 Apr 1;14(7):1801. doi: 10.3390/cancers14071801. PMID: 35406573; PMCID: PMC8997641.
- 23: Koukourakis MI, Giatromanolaki A. Tumor draining lymph nodes, immune response, and radiotherapy: Towards a revival of therapeutic principles. *Biochim*

- Biophys Acta Rev Cancer. 2022 May;1877(3):188704. doi: 10.1016/j.bbcan.2022.188704. Epub 2022 Feb 25. PMID: 35227831.
- 24: Koukourakis IM, Giatromanolaki A, Mitrakas A, Koukourakis MI. Loss of HLA-class-I expression in non-small-cell lung cancer: Association with prognosis and anaerobic metabolism. *Cell Immunol.* 2022 Mar;373:104495. doi: 10.1016/j.cellimm.2022.104495. Epub 2022 Feb 15. PMID: 35183853.
- 25: Lamprou I, Kakouratos C, Tsolou A, Pavlidis P, Xanthopoulou ET, Nanos C, Tsaroucha A, Sivridis E, Giatromanolaki A, Koukourakis MI. Lipophagy-Related Protein Perilipin-3 and Resistance of Prostate Cancer to Radiation Therapy. *Int J Radiat Oncol Biol Phys.* 2022 Jun 1;113(2):401-414. doi: 10.1016/j.ijrobp.2022.01.033. Epub 2022 Feb 1. PMID: 35121129.
- 26: Koukourakis MI, Kavazis C, Giagtzidis A, Mamalis P, Tsaroucha A, Botaitis S, Giatromanolaki A, Pitiakoudis M. Postoperative hypofractionated-accelerated radiotherapy (HypoAR) for locally advanced rectal cancer. *Jpn J Clin Oncol.* 2022 May 5;52(5):493-498. doi: 10.1093/jjco/hyab216. PMID: 35079795.
- 27: Kougioumtzis IE, Barmpitsioti A, Tottas S, Giatromanolaki A, Drosos GI. Giant Neurofibroma of the Left Median Nerve Associated With Damage of the Ipsilateral Distal Radius. *Cureus.* 2021 Dec 9;13(12):e20294. doi: 10.7759/cureus.20294. PMID: 35024252; PMCID: PMC8742247.
- 28: Chatzipantelis P, Koukourakis M, Balaska K, Giatromanolaki A. Endometrial Stromal Expression of ER, PR, and B-Catenin Toward Differentiating Hyperplasia Diagnoses. *Int J Surg Pathol.* 2022 Aug;30(5):492-498. doi: 10.1177/10668969211065110. Epub 2021 Dec 6. PMID: 34866456.
- 29: Tsochantaridis I, Voulgaridou GP, Giatromanolaki A, Koukourakis MI, Panayiotidis MI, Pappa A. Profiling of Aldehyde Dehydrogenase Isoforms in *In Vitro* Formed Tumorspheres. *Anticancer Res.* 2021 Nov;41(11):5481-5488. doi: 10.21873/anticancer.15361. PMID: 34732418.
- 30: Koukourakis IM, Panteliadou M, Giakzidis AG, Nanos C, Abatzoglou I, Giatromanolaki A, Koukourakis MI. Long-Term Results of Postoperative Hypofractionated Accelerated Breast and Lymph Node Radiotherapy (HypoAR) with Hypofractionated Boost. *Curr Oncol.* 2021 Sep 7;28(5):3474-3487. doi: 10.3390/curroncol28050300. PMID: 34590607; PMCID: PMC8482084.
- 31: Fasoulakis Z, Galazios G, Koukourakis M, Nikolettos N, Giatromanolaki A, Koutlaki N, N Kontomanolis E. Expression of Delta Like Ligand 4 (DLL4) in endometrial carcinomas and tumor vasculature. *J BUON.* 2021 Jul-Aug;26(4):1327-1332. PMID: 34564988.
- 32: Kakouratos C, Kalamida D, Lamprou I, Xanthopoulou E, Nanos C, Giatromanolaki A, Koukourakis MI. Apalutamide radio-sensitisation of prostate cancer. *Br J Cancer.* 2021 Nov;125(10):1377-1387. doi: 10.1038/s41416-021-01528-1. Epub 2021 Sep 1. PMID: 34471256; PMCID: PMC8575888.
- 33: Lamprou I, Tsolou A, Kakouratos C, Mitrakas AG, Xanthopoulou ET, Kassela K, Karakasiliotis I, Zois CE, Giatromanolaki A, Koukourakis MI. Suppressed PLIN3 frequently occurs in prostate cancer, promoting docetaxel resistance via intensified autophagy, an event reversed by chloroquine. *Med Oncol.* 2021 Aug 19;38(10):116. doi: 10.1007/s12032-021-01566-y. PMID: 34410522; PMCID:

PMC8374126.

34: Giatromanolaki A, Harris AL, Koukourakis MI. The prognostic and therapeutic implications of distinct patterns of argininosuccinate synthase 1 (ASS1) and arginase-2 (ARG2) expression by cancer cells and tumor stroma in non-small-cell lung cancer. *Cancer Metab.* 2021 Aug 3;9(1):28. doi: 10.1186/s40170-021-00264-7. PMID: 34344457; PMCID: PMC8336070.

35: Chrysanthopoulou A, Gkaliagkousi E, Lazaridis A, Arelaki S, Pateinakis P, Ntinopoulou M, Mitsios A, Antoniadou C, Argyriou C, Georgiadis GS, Papadopoulos V, Giatromanolaki A, Ritis K, Skendros P. Angiotensin II triggers release of neutrophil extracellular traps, linking thromboinflammation with essential hypertension. *JCI Insight.* 2021 Sep 22;6(18):e148668. doi: 10.1172/jci.insight.148668. PMID: 34324440; PMCID: PMC8492353.

36: Giatromanolaki A, Anastopoulos I, Panayiotidis MI, Mitrakas A, Pappa A, Koukourakis MI. Prognostic Relevance of the Relative Presence of CD4, CD8 and CD20 Expressing Tumor Infiltrating Lymphocytes in Operable Non-small Cell Lung Cancer Patients. *Anticancer Res.* 2021 Aug;41(8):3989-3995. doi: 10.21873/anticancer.15196. PMID: 34281863.

37: Koukourakis IM, Giakzidis AG, Kouroupi M, Giatromanolaki A, Abatzoglou I, Karpouzis A, Koukourakis MI. Cutaneous squamous-cell carcinoma of the head-neck area refractory to chemo-radiotherapy: benefit from anti-PD-1 immunotherapy. *BJR Case Rep.* 2021 Feb 4;7(3):20200170. doi: 10.1259/bjrcr.20200170. PMID: 34131497; PMCID: PMC8171141.

38: Kambouri K, Chatzipantelis P, Foutzitzi S, Dimitriadou C, Aggelidou M, Giatromanolaki A, Deftereos S. Dermatofibrosarcoma protuberans in a child, that's why soft tissue lesions are not always innocent in children. *Clin Case Rep.* 2021 Apr 4;9(5):e04080. doi: 10.1002/ccr3.4080. PMID: 34084498; PMCID: PMC8142409.

39: Giatromanolaki A, Kouroupi M, Kontomanolis EN, Koukourakis MI. Regulatory tumor-infiltrating lymphocytes prevail in endometrial tumors with low vascular survival ability. *Immunobiology.* 2021 May;226(3):152078. doi: 10.1016/j.imbio.2021.152078. Epub 2021 Mar 6. PMID: 33725493.

40: Klionsky DJ, ...Giatromanolaki A, . *Autophagy.* 2021 Jan;17(1):1-382. doi: 10.1080/15548627.2020.1797280. Epub 2021 Feb 8. PMID: 33634751; PMCID: PMC7996087.

41: Diakosavvas M, Fasoulakis ZN, Kouroupi M, Theodora M, Inagamova L, Tsatsaris G, Nikolaou P, Frangia-Tsivou K, Giatromanolaki A, Kontomanolis EN. Primary Malignant Melanoma of the Cervix: A Case Report and a Review of the Literature. *Case Rep Oncol Med.* 2020 Sep 3;2020:7206786. doi: 10.1155/2020/7206786. PMID: 33628550; PMCID: PMC7898279.

42: Koukourakis MI, Giatromanolaki A. Lymphopenia and intratumoral lymphocytic balance in the era of cancer immuno-radiotherapy. *Crit Rev Oncol Hematol.* 2021 Mar;159:103226. doi: 10.1016/j.critrevonc.2021.103226. Epub 2021 Jan 19. PMID: 33482348.

43: Tsochantaridis I, Roupas A, Voulgaridou GP, Giatromanolaki A, Koukourakis MI, Panayiotidis MI, Pappa A. Aldehyde Dehydrogenase 1B1 Is Associated with

Altered Cell Morphology, Proliferation, Migration and Chemosensitivity in Human Colorectal Adenocarcinoma Cells. *Biomedicines*. 2021 Jan 6;9(1):44. doi: 10.3390/biomedicines9010044. PMID: 33419031; PMCID: PMC7825346.

44: Koukou OI, Pappas LD, Chloropoulou P, Kouroupi MA, Koukos KI, Karpathiou G, Galanos AA, Drosos GI, Magnisalis E, Giatromanolaki AN, Verettas DA. The Effect of Strontium Ranelate on Fracture Healing: An Animal Study. *Biomed Res Int*. 2020 Nov 24;2020:1085324. doi: 10.1155/2020/1085324. PMID: 33415138; PMCID: PMC7768587.

45: Giatromanolaki A, Tsolou A, Daridou E, Kouroupi M, Chlichlia K, Koukourakis MI. iNOS Expression by Tumor-Infiltrating Lymphocytes, PD-L1 and Prognosis in Non-Small-Cell Lung Cancer. *Cancers (Basel)*. 2020 Nov 5;12(11):3276. doi: 10.3390/cancers12113276. PMID: 33167430; PMCID: PMC7694334.

46: Effraimidou E, Kofina K, Giatromanolaki A, Chatzipantelis P, Karanikas M, Lyratzopoulos N. Primary ectopic Merkel cell carcinoma without skin involvement-report of a case with prolonged survival. *J Surg Case Rep*. 2020 Oct 27;2020(10):rjaa390. doi: 10.1093/jscr/rjaa390. PMID: 33163153; PMCID: PMC7605217.

47: Giatromanolaki A, Koukourakis IM, Chatzipantelis P, Kouroupi M, Balaska K, Koukourakis MI. Rectal cancer induces a regulatory lymphocytic phenotype in the tumor-draining lymph nodes to promote cancer cell installation. *Immunol Res*. 2020 Dec;68(6):363-372. doi: 10.1007/s12026-020-09161-5. Epub 2020 Nov 4. PMID: 33150567.

48: Giatromanolaki A, Kouroupi M, Balaska K, Koukourakis MI. A Novel Lipofuscin-detecting Marker of Senescence Relates With Hypoxia, Dysregulated Autophagy and With Poor Prognosis in Non-small-cell-lung Cancer. *In Vivo*. 2020 Nov-Dec;34(6):3187-3193. doi: 10.21873/invivo.12154. PMID: 33144423; PMCID: PMC7811663.

49: Giatromanolaki A, Kouroupi M, Pouliliou S, Mitrakas A, Hasan F, Pappa A, Koukourakis MI. Ectonucleotidase CD73 and CD39 expression in non-small cell lung cancer relates to hypoxia and immunosuppressive pathways. *Life Sci*. 2020 Oct 15;259:118389. doi: 10.1016/j.lfs.2020.118389. Epub 2020 Sep 6. PMID: 32898522.

50: Chatzipantelis P, Giatromanolaki A. Early histopathologic changes in primary biliary cholangitis: does 'minimal change' primary biliary cholangitis exist? A pathologist's view. *Eur J Gastroenterol Hepatol*. 2021 Dec 1;33(12):e7-e12. doi: 10.1097/MEG.0000000000001876. PMID: 32804848.

51: Chatzipantelis P, Koukourakis M, Kouroupi M, Giatromanolaki A. P16 detection in benign, precursor epithelial lesions and carcinomas of head and neck. *Pathol Res Pract*. 2020 Aug;216(8):153035. doi: 10.1016/j.prp.2020.153035. Epub 2020 Jun 13. PMID: 32703498.

52: Koukourakis MI, Giatromanolaki A. Tumor microenvironment, immune response and post-radiotherapy tumor clearance. *Clin Transl Oncol*. 2020 Dec;22(12):2196-2205. doi: 10.1007/s12094-020-02378-8. Epub 2020 May 22. PMID: 32445035.

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