

Nicolaas A P Franken

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

5,996
citations

185998

28
h-index

71532

76
g-index

80
all docs

80
docs citations

80
times ranked

10228
citing authors

#	ARTICLE	IF	CITATIONS
1	Gamma-H2AX Foci Decay Ratio as a Stronger Predictive Factor of Late Radiation Toxicity Than Dose-Volume Parameters in a Prospective Cohort of Prostate Cancer Patients. <i>International Journal of Radiation Oncology Biology Physics</i> , 2022, 112, 212-221.	0.4	4
2	A Comparison between Patient- and Physician-Reported Late Radiation Toxicity in Long-Term Prostate Cancer Survivors. <i>Cancers</i> , 2022, 14, 1670.	1.7	3
3	Non-Invasive Imaging and Scoring of Peritoneal Metastases in Small Preclinical Animal Models Using Ultrasound: A Preliminary Trial. <i>Biomedicines</i> , 2022, 10, 1610.	1.4	1
4	Simulating drug penetration during hyperthermic intraperitoneal chemotherapy. <i>Drug Delivery</i> , 2021, 28, 145-161.	2.5	19
5	Hyperthermia-Based Anti-Cancer Treatments. <i>Cancers</i> , 2021, 13, 1240.	1.7	38
6	PARP1-Inhibition Sensitizes Cervical Cancer Cell Lines for Chemoradiation and Thermoradiation. <i>Cancers</i> , 2021, 13, 2092.	1.7	4
7	Preclinical In Vivo-Models to Investigate HIPEC; Current Methodologies and Challenges. <i>Cancers</i> , 2021, 13, 3430.	1.7	14
8	Demonstration of treatment planning software for hyperthermic intraperitoneal chemotherapy in a rat model. <i>International Journal of Hyperthermia</i> , 2021, 38, 38-54.	1.1	8
9	The Temperature-Dependent Effectiveness of Platinum-Based Drugs Mitomycin-C and 5-FU during Hyperthermic Intraperitoneal Chemotherapy (HIPEC) in Colorectal Cancer Cell Lines. <i>Cells</i> , 2020, 9, 1775.	1.8	38
10	A Four-Inflow Construction to Ensure Thermal Stability and Uniformity during Hyperthermic Intraperitoneal Chemotherapy (HIPEC) in Rats. <i>Cancers</i> , 2020, 12, 3516.	1.7	7
11	HyCHEED System for Maintaining Stable Temperature Control during Preclinical Irreversible Electroporation Experiments at Clinically Relevant Temperature and Pulse Settings. <i>Sensors</i> , 2020, 20, 6227.	2.1	4
12	Radiosensitization by Hyperthermia: The Effects of Temperature, Sequence, and Time Interval in Cervical Cell Lines. <i>Cancers</i> , 2020, 12, 582.	1.7	25
13	Molecular and biological rationale of hyperthermia as radio- and chemosensitizer. <i>Advanced Drug Delivery Reviews</i> , 2020, 163-164, 84-97.	6.6	81
14	Response: Commentary: The Impact of the Time Interval Between Radiation and Hyperthermia on Clinical Outcome in Patients With Locally Advanced Cervical Cancer. <i>Frontiers in Oncology</i> , 2020, 10, 528.	1.3	12
15	Outcome of a rabbit model for late irradiation effects in mandibular oral mucosa and bone: A pilot study. <i>Journal of Clinical and Translational Research</i> , 2020, 6, 225-235.	0.3	1
16	Increased uptake of doxorubicin by cells undergoing heat stress does not explain its synergistic cytotoxicity with hyperthermia. <i>International Journal of Hyperthermia</i> , 2019, 36, 711-719.	1.1	20
17	Hyperthermia: The Optimal Treatment to Overcome Radiation Resistant Hypoxia. <i>Cancers</i> , 2019, 11, 60.	1.7	142
18	Variation in Clinical Application of Hyperthermic Intraperitoneal Chemotherapy: A Review. <i>Cancers</i> , 2019, 11, 78.	1.7	64

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19	The Impact of the Time Interval Between Radiation and Hyperthermia on Clinical Outcome in Patients With Locally Advanced Cervical Cancer. <i>Frontiers in Oncology</i> , 2019, 9, 412.	1.3	17
20	Enhancing the abscopal effect of radiation and immune checkpoint inhibitor therapies with magnetic nanoparticle hyperthermia in a model of metastatic breast cancer. <i>International Journal of Hyperthermia</i> , 2019, 36, 47-63.	1.1	35
21	Measurement and analysis of the impact of time-interval, temperature and radiation dose on tumour cell survival and its application in thermoradiotherapy plan evaluation. <i>International Journal of Hyperthermia</i> , 2018, 34, 30-38.	1.1	34
22	Enhancing radiosensitisation of BRCA2-proficient and BRCA2-deficient cell lines with hyperthermia and PARP1-inhibition. <i>International Journal of Hyperthermia</i> , 2018, 34, 39-48.	1.1	18
23	The clinical benefit of hyperthermia in pancreatic cancer: a systematic review. <i>International Journal of Hyperthermia</i> , 2018, 34, 969-979.	1.1	41
24	Re-irradiation plus hyperthermia for recurrent pediatric sarcoma; a simulation study to investigate feasibility. <i>International Journal of Oncology</i> , 2018, 54, 209-218.	1.4	1
25	The effect of time interval between radiotherapy and hyperthermia on planned equivalent radiation dose. <i>International Journal of Hyperthermia</i> , 2018, 34, 901-909.	1.1	23
26	The alfa and beta of tumours: a review of parameters of the linear-quadratic model, derived from clinical radiotherapy studies. <i>Radiation Oncology</i> , 2018, 13, 96.	1.2	301
27	Enhancement of Radiation Effectiveness in Cervical Cancer Cells by Combining Ionizing Radiation with Hyperthermia and Molecular Targeting Agents. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2420.	1.8	13
28	Targeting therapy-resistant cancer stem cells by hyperthermia. <i>International Journal of Hyperthermia</i> , 2017, 33, 419-427.	1.1	61
29	Prostate Cancer Patients with Late Radiation Toxicity Exhibit Reduced Expression of Genes Involved in DNA Double-Strand Break Repair and Homologous Recombination. <i>Cancer Research</i> , 2017, 77, 1485-1491.	0.4	15
30	A short time interval between radiotherapy and hyperthermia reduces in-field recurrence and mortality in women with advanced cervical cancer. <i>Radiation Oncology</i> , 2017, 12, 75.	1.2	60
31	3D radiobiological evaluation of combined radiotherapy and hyperthermia treatments. <i>International Journal of Hyperthermia</i> , 2017, 33, 160-169.	1.1	31
32	Sensitizing thermochemotherapy with a PARP1-inhibitor. <i>Oncotarget</i> , 2017, 8, 16303-16312.	0.8	14
33	Enhancing synthetic lethality of PARP-inhibitor and cisplatin in BRCA-proficient tumour cells with hyperthermia. <i>Oncotarget</i> , 2017, 8, 28116-28124.	0.8	23
34	Boosting the effects of hyperthermia-based anticancer treatments by HSP90 inhibition. <i>Oncotarget</i> , 2017, 8, 97490-97503.	0.8	20
35	Targeting DNA double strand break repair with hyperthermia and DNA-PKcs inhibition to enhance the effect of radiation treatment. <i>Oncotarget</i> , 2016, 7, 65504-65513.	0.8	38
36	Dynamics of chromosomal aberrations, induction of apoptosis, BRCA2 degradation and sensitization to radiation by hyperthermia. <i>International Journal of Molecular Medicine</i> , 2016, 38, 243-250.	1.8	6

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37	Analysis of enhancement at small and large radiation doses for effectiveness of inactivation in cultured cells by combining two agents with radiation. <i>International Journal of Radiation Biology</i> , 2016, 92, 521-526.	1.0	3
38	Biological modelling of the radiation dose escalation effect of regional hyperthermia in cervical cancer. <i>Radiation Oncology</i> , 2016, 11, 14.	1.2	37
39	Predicting Radiosensitivity with Gamma-H2AX Foci Assay after Single High-Dose-Rate and Pulsed Dose-Rate Ionizing Irradiation. <i>Radiation Research</i> , 2016, 185, 190.	0.7	26
40	Effects of hyperthermia on DNA repair pathways: one treatment to inhibit them all. <i>Radiation Oncology</i> , 2015, 10, 165.	1.2	220
41	Hyperthermia Selectively Targets Human Papillomavirus in Cervical Tumors via p53-Dependent Apoptosis. <i>Cancer Research</i> , 2015, 75, 5120-5129.	0.4	53
42	Enhancement of radiation effectiveness by hyperthermia and incorporation of halogenated pyrimidines at low radiation doses as compared with high doses: Implications for mechanisms. <i>International Journal of Radiation Biology</i> , 2014, 90, 313-317.	1.0	16
43	Decay of γ -H2AX foci correlates with potentially lethal damage repair and P53 status in human colorectal carcinoma cells. <i>Cellular and Molecular Biology Letters</i> , 2014, 19, 37-51.	2.7	12
44	Reduced Activity of Double-Strand Break Repair Genes in Prostate Cancer Patients With Late Normal Tissue Radiation Toxicity. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 88, 664-670.	0.4	39
45	Quantifying the Combined Effect of Radiation Therapy and Hyperthermia in Terms of Equivalent Dose Distributions. <i>International Journal of Radiation Oncology Biology Physics</i> , 2014, 88, 739-745.	0.4	60
46	Inhibition of homologous recombination by hyperthermia shunts early double strand break repair to non-homologous end-joining. <i>DNA Repair</i> , 2013, 12, 38-45.	1.3	42
47	In Regard to Ohri N et al. <i>International Journal of Radiation Oncology Biology Physics</i> , 2013, 86, 598.	0.4	3
48	Cell survival and radiosensitisation: Modulation of the linear and quadratic parameters of the LQ model. <i>International Journal of Oncology</i> , 2013, 42, 1501-1515.	1.4	88
49	Decay of γ -H2AX foci correlates with potentially lethal damage repair in prostate cancer cells. <i>Oncology Reports</i> , 2013, 29, 2175-2180.	1.2	16
50	Relative biological effectiveness of high linear energy transfer α -particles for the induction of DNA-double-strand breaks, chromosome aberrations and reproductive cell death in SW-1573 lung tumour cells. <i>Oncology Reports</i> , 2012, 27, 769-74.	1.2	38
51	Chromatin mobility is increased at sites of DNA double-strand breaks. <i>Journal of Cell Science</i> , 2012, 125, 2127-33.	1.2	125
52	Comparison of RBE values of high-LET α -particles for the induction of DNA-DSBs, chromosome aberrations and cell reproductive death. <i>Radiation Oncology</i> , 2011, 6, 64.	1.2	77
53	Mild hyperthermia inhibits homologous recombination, induces BRCA2 degradation, and sensitizes cancer cells to poly (ADP-ribose) polymerase-1 inhibition. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 9851-9856.	3.3	301
54	Radiosensitizing effect of the histone acetyltransferase inhibitor anacardic acid on various mammalian cell lines. <i>Oncology Letters</i> , 2010, 1, 765-769.	0.8	6

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55	Cyclopentenylcytosine does not enhance cisplatin-induced radiosensitization in human lung tumour cells. <i>Oncology Letters</i> , 2010, 1, 537-540.	0.8	2
56	PCC and COBRA-FISH a new tool to characterize primary cervical carcinomas: To assess hall-marks and stage specificity. <i>Cancer Letters</i> , 2010, 287, 67-74.	3.2	14
57	Transient inhibition of Calyculin A induced premature chromosome condensation by hyperthermia. <i>International Journal of Hyperthermia</i> , 2009, 25, 220-228.	1.1	0
58	Quantification of the Contribution of Hyperthermia to Results of Cervical Cancer Trials: In Regard to Plataniotis and Dale (Int J Radiat Oncol Biol Phys 2009;73:1538-1544). <i>International Journal of Radiation Oncology Biology Physics</i> , 2009, 75, 634.	0.4	3
59	Chromosome Fragments have the Potential to Predict Hyperthermia-induced Radio-sensitization in Two Different Human Tumor Cell Lines. <i>Journal of Radiation Research</i> , 2008, 49, 465-472.	0.8	6
60	Hyperthermia, cisplatin and radiation trimodality treatment: A promising cancer treatment? A review from preclinical studies to clinical application. <i>International Journal of Hyperthermia</i> , 2007, 23, 329-341.	1.1	58
61	Effect of 41 degrees C and 43 degrees C on cisplatin radiosensitization in two human carcinoma cell lines with different sensitivities for cisplatin. <i>Oncology Reports</i> , 2007, 18, 219-26.	1.2	19
62	Gadolinium enhances the sensitivity of SW-1573 cells for thermal neutron irradiation. <i>Oncology Reports</i> , 2006, 15, 715-20.	1.2	11
63	Clonogenic assay of cells in vitro. <i>Nature Protocols</i> , 2006, 1, 2315-2319.	5.5	3,193
64	Effects of cisplatin and $\hat{3}$ -irradiation on cell survival, the induction of chromosomal aberrations and apoptosis in SW-1573 cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2006, 594, 148-154.	0.4	28
65	Effect of hyperthermia on uptake and cytotoxicity of cisplatin in cultured murine mammary carcinoma cells. <i>Oncology Reports</i> , 2005, 14, 561-7.	1.2	14
66	Induction of the early response protein EGR-1 in human tumour cells after ionizing radiation is correlated with a reduction of repair of lethal lesions and an increase of repair of sublethal lesions. <i>International Journal of Oncology</i> , 2004, 24, 1027.	1.4	2
67	Effects of Gemcitabine on Cell Survival and Chromosome Aberrations after Pulsed Low Dose-rate Irradiation. <i>Journal of Radiation Research</i> , 2004, 45, 111-118.	0.8	11
68	Differential Response to Radiation of TP53-Inactivated Cells by Overexpression of Dominant-Negative Mutant TP53 or HPVE6. <i>Radiation Research</i> , 2004, 161, 504-510.	0.7	9
69	Repair of Potentially Lethal Damage does not Depend on Functional TP53 in Human Glioblastoma Cells. <i>Radiation Research</i> , 2004, 161, 511-516.	0.7	12
70	Induction of the early response protein EGR-1 in human tumour cells after ionizing radiation is correlated with a reduction of repair of lethal lesions and an increase of repair of sublethal lesions. <i>International Journal of Oncology</i> , 2004, 24, 1027-31.	1.4	4
71	Colour junctions as predictors of radiosensitivity: X-irradiation combined with gemcitabine in a lung carcinoma cell line. <i>Journal of Cancer Research and Clinical Oncology</i> , 2003, 129, 597-603.	1.2	10
72	Importance of TP53 and RB in the Repair of Potentially Lethal Damage and Induction of Color Junctions after Exposure to Ionizing Radiation. <i>Radiation Research</i> , 2002, 158, 707-714.	0.7	19

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73	Induction of chromosome aberrations in unirradiated chromatin after partial irradiation of a cell nucleus. <i>International Journal of Radiation Biology</i> , 2002, 78, 239-247.	1.0	24
74	Chromosome aberrations detected by FISH and correlation with cell survival after irradiation at various dose-rates and after bromodeoxyuridine radiosensitization. <i>International Journal of Radiation Biology</i> , 2002, 78, 203-210.	1.0	8
75	Radiosensitization by Bromodeoxyuridine and Hyperthermia: Analysis of Linear and Quadratic Parameters of Radiation Survival Curves of Two Human Tumor Cell Lines. <i>Journal of Radiation Research</i> , 2001, 42, 179-190.	0.8	26
76	Importance of cell proliferative state and potentially lethal damage repair on radiation effectiveness: Implications for combined tumor treatments (Review). <i>International Journal of Oncology</i> , 2001, 19, 247-56.	1.4	32
77	Wild-type p53-function is not required for hyperthermia-enhanced cytotoxicity of cisplatin. <i>International Journal of Hyperthermia</i> , 2001, 17, 337-346.	1.1	12
78	Inactivation of p53 and of pRb protects human colorectal carcinoma cells against hyperthermia-induced cytotoxicity and apoptosis. <i>Journal of Cancer Research and Clinical Oncology</i> , 1999, 125, 549-555.	1.2	29
79	Correlation between cell reproductive death and chromosome aberrations assessed by FISH for low and high doses of radiation and sensitization by iodo-deoxyuridine in human SW-1573 cells. <i>International Journal of Radiation Biology</i> , 1999, 75, 293-299.	1.0	32
80	Hyperthermia and incorporation of halogenated pyrimidines: Radiosensitization in cultured rodent and human tumor cells. <i>International Journal of Radiation Oncology Biology Physics</i> , 1997, 39, 489-496.	0.4	20