Joan F Barquinero

List of Publications by Year
in descending order

99 papers	2,435 citations	236833 25 h-index	254106 43 g-index
100 all docs	100 docs citations	100 times ranked	1633 citing authors

#	Article	IF	Citations
1	Assessment methods for inter-laboratory comparisons of the dicentric assay. International Journal of Radiation Biology, 2023, 99, 431-438.	1.0	0
2	Establishment and validation of surface model for biodosimetry based on Î³-H2AX foci detection. International Journal of Radiation Biology, 2022, 98, 1-10.	1.0	6
3	The SHAMISEN Project: Challenging historical recommendations for preparedness, response and surveillance of health and well-being in case of nuclear accidents: Lessons learnt from Chernobyl and Fukushima. Environment International, 2021, 146, 106200.	4.8	15
4	Lessons from past radiation accidents: Critical review of methods addressed to individual dose assessment of potentially exposed people and integration with medical assessment. Environment International, 2021, 146, 106175.	4.8	10
5	RENEB Inter-Laboratory comparison 2017: limits and pitfalls of ILCs. International Journal of Radiation Biology, 2021, 97, 888-905.	1.0	13
6	RENEB/EURADOS field exercise 2019: robust dose estimation under outdoor conditions based on the dicentric chromosome assay. International Journal of Radiation Biology, 2021, 97, 1181-1198.	1.0	17
7	Redox Status, Dose and Antioxidant Intake in Healthcare Workers Occupationally Exposed to Ionizing Radiation. Antioxidants, 2020, 9, 778.	2.2	2
8	Chromosomal aberration dynamics through the cell cycle. DNA Repair, 2020, 89, 102838.	1.3	4
9	Uncertainty calculation methods in dose assessment for dicentric chromosome assay. International Journal of Radiation Biology, 2020, 96, 606-613.	1.0	2
10	Polymorphisms in MDM2 and TP53 Genes and Risk of Developing Therapy-Related Myeloid Neoplasms. Scientific Reports, 2019, 9, 150.	1.6	4
11	Comparative study of micronucleus assays and dicentric plus ring chromosomes for dose assessment in particular cases of partial-body exposure. International Journal of Radiation Biology, 2019, 95, 1058-1071.	1.0	9
12	From Energy Deposition of Ionizing Radiation to Cell Damage Signaling: Benchmarking Simulations by Measured Yields of Initial DNA Damage after Ion Microbeam Irradiation. Radiation Research, 2019, 191, 566.	0.7	11
13	Twenty years of FISH-based translocation analysis for retrospective ionizing radiation biodosimetry. International Journal of Radiation Biology, 2018, 94, 248-258.	1.0	21
14	A note on Poisson goodness-of-fit tests for ionizing radiation induced chromosomal aberration samples. International Journal of Radiation Biology, 2018, 94, 656-663.	1.0	12
15	Cytogenetic damage analysis in mice chronically exposed to low-dose internal tritium beta-particle radiation. Oncotarget, 2018, 9, 27397-27411.	0.8	11
16	Transmission of persistent ionizing radiation-induced foci through cell division in human primary cells. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2017, 797-799, 15-25.	0.4	7
17	Investigation of the influence of calibration practices on cytogenetic laboratory performance for dose estimation. International Journal of Radiation Biology, 2017, 93, 118-126.	1.0	22
18	RENEB â€“ Running the European Network of biological dosimetry and physical retrospective dosimetry. International Journal of Radiation Biology, 2017, 93, 2-14.	1.0	52

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19	Web based scoring is useful for validation and harmonisation of scoring criteria within RENEB. International Journal of Radiation Biology, 2017, 93, 110-117.	1.0	16
20	Capabilities of the RENEB network for research and large scale radiological and nuclear emergency situations. International Journal of Radiation Biology, 2017, 93, 136-141.	1.0	11
21	Uncertainty of fast biological radiation dose assessment for emergency response scenarios. International Journal of Radiation Biology, 2017, 93, 127-135.	1.0	20
22	RENEB accident simulation exercise. International Journal of Radiation Biology, 2017, 93, 75-80.	1.0	10
23	RENEB biodosimetry intercomparison analyzing translocations by FISH. International Journal of Radiation Biology, 2017, 93, 30-35.	1.0	22
24	Biological Dosimetry, Statistical Challenges: Biological Dosimetry After High-Dose Exposures to Ionizing Radiation. Trends in Mathematics, 2017, , 67-70.	0.1	1
25	Analysis of the Possible Persistent Genotoxic Damage in Workers Linked to the Ardystil Syndrome. Genetic Testing and Molecular Biomarkers, 2016, 20, 94-97.	0.3	1
26	Analysis of Î±-particle-induced chromosomal aberrations by chemically-induced PCC. Elaboration of dose-effect curves. International Journal of Radiation Biology, 2016, 92, 493-501.	1.0	8
27	Cytogenetic effects of radioiodine therapy: a 20-year follow-up study. Radiation and Environmental Biophysics, 2016, 55, 203-213.	0.6	21
28	Automatic Detection of Mitosis and Nuclei From Cytogenetic Images by CellProfiler Software for Mitotic Index Estimation. Radiation Protection Dosimetry, 2016, 172, 218-222.	0.4	2
29	Differences in DNA Repair Capacity, Cell Death and Transcriptional Response after Irradiation between a Radiosensitive and a Radioresistant Cell Line. Scientific Reports, 2016, 6, 27043.	1.6	36
30	A mouse model of cytogenetic analysis to evaluate caesium137 radiation dose exposure and contamination level in lymphocytes. Radiation and Environmental Biophysics, 2016, 55, 61-70.	0.6	13
31	A New Model for Biological Dose Assessment in Cases of Heterogeneous Exposures to Ionizing Radiation. Radiation Research, 2016, 185, 151.	0.7	11
32	Cell to Cell Variability of Radiation-Induced Foci: Relation between Observed Damage and Energy Deposition. PLoS ONE, 2016, 11, e0145786.	1.1	20
33	Retrospective biodosimetry using translocation frequency in a stable cell of occupationally exposed to ionizing radiation. Journal of Radiation Research, 2015, 56, 709-716.	0.8	19
34	Realising the European network of biodosimetry: RENEB--status quo. Radiation Protection Dosimetry, 2015, 164, 42-45.	0.4	41
35	Comparison of methods to quantify histone H2AX phosphorylation and its usefulness for prediction of radiosensitivity. International Journal of Radiation Biology, 2015, 91, 915-924.	1.0	15
36	Inter- and intra-laboratory comparison of a multibiodosimetric approach to triage in a simulated, large scale radiation emergency. International Journal of Radiation Biology, 2014, 90, 193-202.	1.0	44

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37	Validation of Semi-automatic Scoring of Dicentric Chromosomes after Simulation of Three Different Irradiation Scenarios. Health Physics, 2014, 106, 764-771.	0.3	22
38	Web-based scoring of the dicentric assay, a collaborative biodosimetric scoring strategy for population triage in large scale radiation accidents. Radiation and Environmental Biophysics, 2014, 53, 241-254.	0.6	25
39	RBE-LET relationship for proton and alpha irradiations studied with a nanodosimetric approach. Radiation Protection Dosimetry, 2014, 161, 449-453.	0.4	5
40	Influence of chromatin condensation on the number of direct DSB damages induced by ions studied using a Monte Carlo code. Radiation Protection Dosimetry, 2014, 161, 469-473.	0.4	10
41	Biodosimetry estimation using the ratio of the longest:shortest length in the premature chromosome condensation (PCC) method applying autocapture and automatic image analysis. Journal of Radiation Research, 2014, 55, 862-865.	0.8	12
42	Sister chromatid exchange, (SCE), High-Frequency Cells (HFCs) and SCE distribution patterns in peripheral blood lymphocytes of Spanish adult smokers compared to non-smokers. Food and Chemical Toxicology, 2014, 66, 107-112.	1.8	9
43	A New Model of Biodosimetry to Integrate Low and High Doses. PLoS ONE, 2014, 9, e114137.	1.1	25
44	Analysis of radioinduced DNA damages using Monte Carlo calculations at nanometric scale for different irradiation configurations. Progress in Nuclear Science and Technology, 2014, 4, 413-417.	0.3	0
45	Manual versus automated Î³-H2AX foci analysis across five European laboratories: Can this assay be used for rapid biodosimetry in a large scale radiation accident?. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2013, 756, 170-173.	0.9	60
46	Automatic scoring of dicentric chromosomes as a tool in large scale radiation accidents. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2013, 756, 174-183.	0.9	76
47	Biological Dosimetry by Automated Dicentric Scoring in a Simulated Emergency. Radiation Research, 2013, 179, 557-569.	0.7	33
48	Frequency of dicentrics and contamination levels in Ukrainian children and adolescents from areas near Chernobyl 20 years after the nuclear plant accident. International Journal of Radiation Biology, 2013, 89, 944-949.	1.0	2
49	Suitability of scoring PCC rings and fragments for dose assessment after high-dose exposures to ionizing radiation. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2013, 757, 1-7.	0.9	24
50	Characterization of gene expression profiles at low and very low doses of ionizing radiation. DNA Repair, 2013, 12, 508-517.	1.3	46
51	Interlaboratory comparison of dicentric chromosome assay using electronically transmitted images. Radiation Protection Dosimetry, 2013, 154, 18-25.	0.4	14
52	Biological dosimetry assessments of a serious radiation accident in Bulgaria in 2011. Radiation Protection Dosimetry, 2013, 155, 418-422.	0.4	19
53	Assessment of simulated high-dose partial-body irradiation by PCC-R assay. Journal of Radiation Research, 2013, 54, 863-871.	0.8	20
54	Realising the European Network of Biodosimetry (RENEB). Radiation Protection Dosimetry, 2012, 151, 621-625.	0.4	54

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55	Cytogenetic biodosimetry for Fukushima travelers after the nuclear power plant accident: no evidence of enhanced yield of dicentrics. Journal of Radiation Research, 2012, 53, 876-881.	0.8	29
56	The use of caffeine to assess high dose exposures to ionising radiation by dicentric analysis. Radiation Protection Dosimetry, 2012, 149, 392-398.	0.4	15
57	Assessment in vitro of cytogenetic and genotoxic effects of propolis on human lymphocytes. Food and Chemical Toxicology, 2012, 50, 216-221.	1.8	11
58	In vitro cytogenetic and genotoxic effects of curcumin on human peripheral blood lymphocytes. Food and Chemical Toxicology, 2012, 50, 3229-3233.	1.8	19
59	Radiosensitization induced by the anti-epidermal growth factor receptor monoclonal antibodies cetuximab and nimotuzumab in A431 cells. Cancer Biology and Therapy, 2012, 13, 71-76.	1.5	23
60	Automatic analysis of silver-stained comets by CellProfiler software. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2012, 748, 60-64.	0.9	23
61	Suitability of the γ-H2AX Assay for Human Radiation Biodosimetry. , 2012, , .		2
62	Biological Dosimetry Intercomparison Exercise: An Evaluation of Triage and Routine Mode Results by Robust Methods. Radiation Research, 2011, 175, 638-649.	0.7	44
63	Induction of Incomplete and Complex Chromosome Aberrations by 30ÂkVp X Rays. Radiation Research, 2011, 175, 201-207.	0.7	7
64	Biological and physical methods for risk estimation in interventional radiology: A detrimental effect approach. , 2011, 2011, 108-11.		1
65	Review of retrospective dosimetry techniques for external ionising radiation exposures. Radiation Protection Dosimetry, 2011, 147, 573-592.	0.4	217
66	An application of compound Poisson modelling to biological dosimetry. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2011, 467, 897-910.	1.0	20
67	Concentration-Dependent Protection by Ethanol Extract of Propolis againstÎ³-Ray-Induced Chromosome Damage in Human Blood Lymphocytes. Evidence-based Complementary and Alternative Medicine, 2011, 2011, 1-7.	0.5	18
68	Radiation effects analysis in a group of interventional radiologists using biological and physical dosimetry methods. European Journal of Radiology, 2010, 75, 259-264.	1.2	14
69	Cells bearing chromosome aberrations lacking one telomere are selectively blocked at the G2/M checkpoint. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2009, 670, 53-58.	0.4	24
70	Persistence of Radiation-Induced Chromosome Aberrations in a Long-Term Cell Culture. Radiation Research, 2009, 171, 425-437.	0.7	18
71	Mitotic delay in lymphocytes from BRCA1 heterozygotes unable to reduce the radiation-induced chromosomal damage. DNA Repair, 2008, 7, 1907-1911.	1.3	13
72	Induction of complete and incomplete chromosome aberrations by bleomycin in human lymphocytes. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 2008, 637, 134-141.	0.4	20

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73	Cytogenetic damage induced by radiotherapy. Evaluation of protection by amifostine and analysis of chromosome aberrations persistence. International Journal of Radiation Biology, 2008, 84, 243-251.	1.0	15
74	International study of factors affecting human chromosome translocations. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2008, 652, 112-121.	0.9	120
75	Radiation effects in interventional radiology using biological and physical dosimetry methods: A case-control study. , 2008, 2008, 2809-12.		3
76	RBE of X Rays of Different Energies: A Cytogenetic Evaluation by FISH. Radiation Research, 2008, 170, 93-100.	0.7	25
77	Analysis of Î³-rays induced chromosome aberrations: A fingerprint evaluation with a combination of pan-centromeric and pan-telomeric probes. International Journal of Radiation Biology, 2006, 82, 869-875.	1.0	12
78	Review of translocations detected by FISH for retrospective biological dosimetry applications. Radiation Protection Dosimetry, 2005, 113, 396-402.	0.4	91
79	A cytogenetic follow-up of some highly irradiated victims of the Chernobyl accident. Radiation Protection Dosimetry, 2005, 113, 152-161.	0.4	44
80	Assessment by cytogenetic analysis of the radioprotection properties of propolis extract. Radiation Protection Dosimetry, 2005, 115, 461-464.	0.4	18
81	Biological Dosimetry in a Group of Radiologists by the Analysis of Dicentrics and Translocations. Radiation Research, 2005, 164, 612-617.	0.7	22
82	Translocation yields in peripheral blood lymphocytes from control populations. International Journal of Radiation Biology, 2005, 81, 139-145.	1.0	54
83	Effect of DMSO on radiation-induced chromosome aberrations analysed by FISH. Cytogenetic and Genome Research, 2004, 104, 168-172.	0.6	4
84	Analysis of Translocations in Stable Cells and their Implications in Retrospective Biological Dosimetry. Radiation Research, 2004, 162, 31-38.	0.7	19
85	Effect of americiumâ€241Î±â€particles on the doseâ€“response of chromosome aberrations in human lymphocytes analysed by fluorescencein situhybridization. International Journal of Radiation Biology, 2004, 80, 155-164.	1.0	27
86	Analysis ofÎ±â€particle induced chromosome aberrations in human lymphocytes, using panâ€centromeric and panâ€telomeric probes. International Journal of Radiation Biology, 2004, 80, 737-744.	1.0	18
87	Suitability of FISH Painting Techniques for the Detection of Partial-Body Irradiations for Biological Dosimetry. Radiation Research, 2002, 157, 461-468.	0.7	28
88	Cytogenetic sensitivity of three Fanconi anemia heterozygotes to bleomycin and ionizing radiation. Cancer Genetics and Cytogenetics, 2001, 124, 80-83.	1.0	16
89	Non-disjunction and Chromosome Loss in Gamma-Irradiated Human Lymphocytes: A FluorescenceIn SituHybridization Analysis Using Centromere-Specific Probes. Radiation Research, 2001, 155, 424-431.	0.7	15
90	Cytogenetic Analyses by FluorescenceIn SituHybridization (FISH) in Hospital Workers Occupationally Exposed to Low Levels of Ionizing Radiation. Radiation Research, 2001, 155, 417-423.	0.7	27

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91	Comparison of X-ray dose-response curves obtained by chromosome painting using conventional and PAINT nomenclatures. International Journal of Radiation Biology, 1999, 75, 1557-1566.	1.0	24
92	Relationship between the DNA content of human chromosomes and their involvement in radiation-induced structural aberrations, analysed by painting. International Journal of Radiation Biology, 1998, 74, 449-455.	1.0	43
93	DNA-proportional distribution of radiation-induced chromosome aberrations analysed by fluorescence in situ hybridization painting of all chromosomes of a human female karyotype. International Journal of Radiation Biology, 1998, 74, 315-323.	1.0	57
94	Biological dosimetry in simulated in vitro partial irradiations. International Journal of Radiation Biology, 1997, 71, 435-440.	1.0	41
95	Dose-response relationship for the induction of chromosomal abnormalities in gamma-irradiated human spermatozoa. Environmental and Molecular Mutagenesis, 1997, 29, 357-66.	0.9	1
96	Decreased sensitivity to the cytogenetic effects of bleomycin in individuals occupationally exposed to ionizing radiation. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1996, 354, 81-86.	0.4	24
97	Establishment and validation of a dose-effect curve for Î³-rays by cytogenetic analysis. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1995, 326, 65-69.	0.4	32
98	Occupational Exposure to Radiation Induces an Adaptive Response in Human Lymphocytes. International Journal of Radiation Biology, 1995, 67, 187-191.	1.0	73
99	Cytogenetic analysis of lymphocytes from hospital workers occupationally exposed to low levels of ionizing radiation. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1993, 286, 275-279.	0.4	79