

Joan F Barquinero

List of Publications by Year in descending order

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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 | Review of retrospective dosimetry techniques for external ionising radiation exposures. Radiation Protection Dosimetry, 2011, 147, 573-592. | 0.4 | 217 |
| 2 | International study of factors affecting human chromosome translocations. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2008, 652, 112-121. | 0.9 | 120 |
| 3 | Review of translocations detected by FISH for retrospective biological dosimetry applications. Radiation Protection Dosimetry, 2005, 113, 396-402. | 0.4 | 91 |
| 4 | 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 |
| 5 | 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 |
| 6 | Occupational Exposure to Radiation Induces an Adaptive Response in Human Lymphocytes. International Journal of Radiation Biology, 1995, 67, 187-191. | 1.0 | 73 |
| 7 | Manual versus automated γ -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 |
| 8 | 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 |
| 9 | Translocation yields in peripheral blood lymphocytes from control populations. International Journal of Radiation Biology, 2005, 81, 139-145. | 1.0 | 54 |
| 10 | Realising the European Network of Biodosimetry (RENEB). Radiation Protection Dosimetry, 2012, 151, 621-625. | 0.4 | 54 |
| 11 | RENEB – Running the European Network of biological dosimetry and physical retrospective dosimetry. International Journal of Radiation Biology, 2017, 93, 2-14. | 1.0 | 52 |
| 12 | Characterization of gene expression profiles at low and very low doses of ionizing radiation. DNA Repair, 2013, 12, 508-517. | 1.3 | 46 |
| 13 | A cytogenetic follow-up of some highly irradiated victims of the Chernobyl accident. Radiation Protection Dosimetry, 2005, 113, 152-161. | 0.4 | 44 |
| 14 | Biological Dosimetry Intercomparison Exercise: An Evaluation of Triage and Routine Mode Results by Robust Methods. Radiation Research, 2011, 175, 638-649. | 0.7 | 44 |
| 15 | 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 |
| 16 | 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 |
| 17 | Biological dosimetry in simulated in vitro partial irradiations. International Journal of Radiation Biology, 1997, 71, 435-440. | 1.0 | 41 |
| 18 | Realising the European network of biodosimetry: RENEB--status quo. Radiation Protection Dosimetry, 2015, 164, 42-45. | 0.4 | 41 |

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|----|---|-----|-----------|
| 19 | Differences in DNA Repair Capacity, Cell Death and Transcriptional Response after Irradiation between a Radiosensitive and a Radioresistant Cell Line. <i>Scientific Reports</i> , 2016, 6, 27043. | 1.6 | 36 |
| 20 | Biological Dosimetry by Automated Dicentric Scoring in a Simulated Emergency. <i>Radiation Research</i> , 2013, 179, 557-569. | 0.7 | 33 |
| 21 | Establishment and validation of a dose-effect curve for $\hat{3}$ -rays by cytogenetic analysis. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1995, 326, 65-69. | 0.4 | 32 |
| 22 | Cytogenetic biodosimetry for Fukushima travelers after the nuclear power plant accident: no evidence of enhanced yield of dicentrics. <i>Journal of Radiation Research</i> , 2012, 53, 876-881. | 0.8 | 29 |
| 23 | Suitability of FISH Painting Techniques for the Detection of Partial-Body Irradiations for Biological Dosimetry. <i>Radiation Research</i> , 2002, 157, 461-468. | 0.7 | 28 |
| 24 | Cytogenetic Analyses by Fluorescence In Situ Hybridization (FISH) in Hospital Workers Occupationally Exposed to Low Levels of Ionizing Radiation. <i>Radiation Research</i> , 2001, 155, 417-423. | 0.7 | 27 |
| 25 | Effect of americium-241 particles on the dose-response of chromosome aberrations in human lymphocytes analysed by fluorescence in situ hybridization. <i>International Journal of Radiation Biology</i> , 2004, 80, 155-164. | 1.0 | 27 |
| 26 | RBE of X Rays of Different Energies: A Cytogenetic Evaluation by FISH. <i>Radiation Research</i> , 2008, 170, 93-100. | 0.7 | 25 |
| 27 | Web-based scoring of the dicentric assay, a collaborative biodosimetric scoring strategy for population triage in large scale radiation accidents. <i>Radiation and Environmental Biophysics</i> , 2014, 53, 241-254. | 0.6 | 25 |
| 28 | A New Model of Biodosimetry to Integrate Low and High Doses. <i>PLoS ONE</i> , 2014, 9, e114137. | 1.1 | 25 |
| 29 | Decreased sensitivity to the cytogenetic effects of bleomycin in individuals occupationally exposed to ionizing radiation. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 1996, 354, 81-86. | 0.4 | 24 |
| 30 | Comparison of X-ray dose-response curves obtained by chromosome painting using conventional and PAINT nomenclatures. <i>International Journal of Radiation Biology</i> , 1999, 75, 1557-1566. | 1.0 | 24 |
| 31 | Cells bearing chromosome aberrations lacking one telomere are selectively blocked at the G2/M checkpoint. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2009, 670, 53-58. | 0.4 | 24 |
| 32 | Suitability of scoring PCC rings and fragments for dose assessment after high-dose exposures to ionizing radiation. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2013, 757, 1-7. | 0.9 | 24 |
| 33 | Radiosensitization induced by the anti-epidermal growth factor receptor monoclonal antibodies cetuximab and nimotuzumab in A431 cells. <i>Cancer Biology and Therapy</i> , 2012, 13, 71-76. | 1.5 | 23 |
| 34 | Automatic analysis of silver-stained comets by CellProfiler software. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2012, 748, 60-64. | 0.9 | 23 |
| 35 | Biological Dosimetry in a Group of Radiologists by the Analysis of Dicentrics and Translocations. <i>Radiation Research</i> , 2005, 164, 612-617. | 0.7 | 22 |
| 36 | Validation of Semi-automatic Scoring of Dicentric Chromosomes after Simulation of Three Different Irradiation Scenarios. <i>Health Physics</i> , 2014, 106, 764-771. | 0.3 | 22 |

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|----|---|-----|-----------|
| 37 | Investigation of the influence of calibration practices on cytogenetic laboratory performance for dose estimation. <i>International Journal of Radiation Biology</i> , 2017, 93, 118-126. | 1.0 | 22 |
| 38 | RENEB biodosimetry intercomparison analyzing translocations by FISH. <i>International Journal of Radiation Biology</i> , 2017, 93, 30-35. | 1.0 | 22 |
| 39 | Cytogenetic effects of radioiodine therapy: a 20-year follow-up study. <i>Radiation and Environmental Biophysics</i> , 2016, 55, 203-213. | 0.6 | 21 |
| 40 | Twenty years of FISH-based translocation analysis for retrospective ionizing radiation biodosimetry. <i>International Journal of Radiation Biology</i> , 2018, 94, 248-258. | 1.0 | 21 |
| 41 | Induction of complete and incomplete chromosome aberrations by bleomycin in human lymphocytes. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2008, 637, 134-141. | 0.4 | 20 |
| 42 | An application of compound Poisson modelling to biological dosimetry. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011, 467, 897-910. | 1.0 | 20 |
| 43 | Assessment of simulated high-dose partial-body irradiation by PCC-R assay. <i>Journal of Radiation Research</i> , 2013, 54, 863-871. | 0.8 | 20 |
| 44 | Uncertainty of fast biological radiation dose assessment for emergency response scenarios. <i>International Journal of Radiation Biology</i> , 2017, 93, 127-135. | 1.0 | 20 |
| 45 | Cell to Cell Variability of Radiation-Induced Foci: Relation between Observed Damage and Energy Deposition. <i>PLoS ONE</i> , 2016, 11, e0145786. | 1.1 | 20 |
| 46 | Analysis of Translocations in Stable Cells and their Implications in Retrospective Biological Dosimetry. <i>Radiation Research</i> , 2004, 162, 31-38. | 0.7 | 19 |
| 47 | In vitro cytogenetic and genotoxic effects of curcumin on human peripheral blood lymphocytes. <i>Food and Chemical Toxicology</i> , 2012, 50, 3229-3233. | 1.8 | 19 |
| 48 | Biological dosimetry assessments of a serious radiation accident in Bulgaria in 2011. <i>Radiation Protection Dosimetry</i> , 2013, 155, 418-422. | 0.4 | 19 |
| 49 | Retrospective biodosimetry using translocation frequency in a stable cell of occupationally exposed to ionizing radiation. <i>Journal of Radiation Research</i> , 2015, 56, 709-716. | 0.8 | 19 |
| 50 | Analysis of α -particle induced chromosome aberrations in human lymphocytes, using α -centromeric and α -telomeric probes. <i>International Journal of Radiation Biology</i> , 2004, 80, 737-744. | 1.0 | 18 |
| 51 | Assessment by cytogenetic analysis of the radioprotection properties of propolis extract. <i>Radiation Protection Dosimetry</i> , 2005, 115, 461-464. | 0.4 | 18 |
| 52 | Persistence of Radiation-Induced Chromosome Aberrations in a Long-Term Cell Culture. <i>Radiation Research</i> , 2009, 171, 425-437. | 0.7 | 18 |
| 53 | Concentration-Dependent Protection by Ethanol Extract of Propolis against 3 -Ray-Induced Chromosome Damage in Human Blood Lymphocytes. <i>Evidence-based Complementary and Alternative Medicine</i> , 2011, 2011, 1-7. | 0.5 | 18 |
| 54 | RENEB/EURADOS field exercise 2019: robust dose estimation under outdoor conditions based on the dicentric chromosome assay. <i>International Journal of Radiation Biology</i> , 2021, 97, 1181-1198. | 1.0 | 17 |

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|----|--|-----|-----------|
| 55 | Cytogenetic sensitivity of three Fanconi anemia heterozygotes to bleomycin and ionizing radiation. <i>Cancer Genetics and Cytogenetics</i> , 2001, 124, 80-83. | 1.0 | 16 |
| 56 | Web based scoring is useful for validation and harmonisation of scoring criteria within RENEb. <i>International Journal of Radiation Biology</i> , 2017, 93, 110-117. | 1.0 | 16 |
| 57 | Non-disjunction and Chromosome Loss in Gamma-Irradiated Human Lymphocytes: A Fluorescence <i>In Situ</i> Hybridization Analysis Using Centromere-Specific Probes. <i>Radiation Research</i> , 2001, 155, 424-431. | 0.7 | 15 |
| 58 | Cytogenetic damage induced by radiotherapy. Evaluation of protection by amifostine and analysis of chromosome aberrations persistence. <i>International Journal of Radiation Biology</i> , 2008, 84, 243-251. | 1.0 | 15 |
| 59 | The use of caffeine to assess high dose exposures to ionising radiation by dicentric analysis. <i>Radiation Protection Dosimetry</i> , 2012, 149, 392-398. | 0.4 | 15 |
| 60 | Comparison of methods to quantify histone H2AX phosphorylation and its usefulness for prediction of radiosensitivity. <i>International Journal of Radiation Biology</i> , 2015, 91, 915-924. | 1.0 | 15 |
| 61 | 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. <i>Environment International</i> , 2021, 146, 106200. | 4.8 | 15 |
| 62 | Radiation effects analysis in a group of interventional radiologists using biological and physical dosimetry methods. <i>European Journal of Radiology</i> , 2010, 75, 259-264. | 1.2 | 14 |
| 63 | Interlaboratory comparison of dicentric chromosome assay using electronically transmitted images. <i>Radiation Protection Dosimetry</i> , 2013, 154, 18-25. | 0.4 | 14 |
| 64 | Mitotic delay in lymphocytes from BRCA1 heterozygotes unable to reduce the radiation-induced chromosomal damage. <i>DNA Repair</i> , 2008, 7, 1907-1911. | 1.3 | 13 |
| 65 | A mouse model of cytogenetic analysis to evaluate caesium-137 radiation dose exposure and contamination level in lymphocytes. <i>Radiation and Environmental Biophysics</i> , 2016, 55, 61-70. | 0.6 | 13 |
| 66 | RENEb Inter-Laboratory comparison 2017: limits and pitfalls of ILCs. <i>International Journal of Radiation Biology</i> , 2021, 97, 888-905. | 1.0 | 13 |
| 67 | Analysis of $\hat{\gamma}$ -rays induced chromosome aberrations: A fingerprint evaluation with a combination of pan-centromeric and pan-telomeric probes. <i>International Journal of Radiation Biology</i> , 2006, 82, 869-875. | 1.0 | 12 |
| 68 | Biodosimetry estimation using the ratio of the longest:shortest length in the premature chromosome condensation (PCC) method applying autocapture and automatic image analysis. <i>Journal of Radiation Research</i> , 2014, 55, 862-865. | 0.8 | 12 |
| 69 | A note on Poisson goodness-of-fit tests for ionizing radiation induced chromosomal aberration samples. <i>International Journal of Radiation Biology</i> , 2018, 94, 656-663. | 1.0 | 12 |
| 70 | Assessment in vitro of cytogenetic and genotoxic effects of propolis on human lymphocytes. <i>Food and Chemical Toxicology</i> , 2012, 50, 216-221. | 1.8 | 11 |
| 71 | A New Model for Biological Dose Assessment in Cases of Heterogeneous Exposures to Ionizing Radiation. <i>Radiation Research</i> , 2016, 185, 151. | 0.7 | 11 |
| 72 | Capabilities of the RENEb network for research and large scale radiological and nuclear emergency situations. <i>International Journal of Radiation Biology</i> , 2017, 93, 136-141. | 1.0 | 11 |

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|----|--|-----|-----------|
| 73 | From Energy Deposition of Ionizing Radiation to Cell Damage Signaling: Benchmarking Simulations by Measured Yields of Initial DNA Damage after Ion Microbeam Irradiation. <i>Radiation Research</i> , 2019, 191, 566. | 0.7 | 11 |
| 74 | Cytogenetic damage analysis in mice chronically exposed to low-dose internal tritium beta-particle radiation. <i>Oncotarget</i> , 2018, 9, 27397-27411. | 0.8 | 11 |
| 75 | Influence of chromatin condensation on the number of direct DSB damages induced by ions studied using a Monte Carlo code. <i>Radiation Protection Dosimetry</i> , 2014, 161, 469-473. | 0.4 | 10 |
| 76 | RENEB accident simulation exercise. <i>International Journal of Radiation Biology</i> , 2017, 93, 75-80. | 1.0 | 10 |
| 77 | Lessons from past radiation accidents: Critical review of methods addressed to individual dose assessment of potentially exposed people and integration with medical assessment. <i>Environment International</i> , 2021, 146, 106175. | 4.8 | 10 |
| 78 | Sister chromatid exchange, (SCE), High-Frequency Cells (HFCs) and SCE distribution patterns in peripheral blood lymphocytes of Spanish adult smokers compared to non-smokers. <i>Food and Chemical Toxicology</i> , 2014, 66, 107-112. | 1.8 | 9 |
| 79 | Comparative study of micronucleus assays and dicentric plus ring chromosomes for dose assessment in particular cases of partial-body exposure. <i>International Journal of Radiation Biology</i> , 2019, 95, 1058-1071. | 1.0 | 9 |
| 80 | Analysis of $\hat{I}\pm$ -particle-induced chromosomal aberrations by chemically-induced PCC. Elaboration of dose-effect curves. <i>International Journal of Radiation Biology</i> , 2016, 92, 493-501. | 1.0 | 8 |
| 81 | Induction of Incomplete and Complex Chromosome Aberrations by $30\hat{A}kVp$ X Rays. <i>Radiation Research</i> , 2011, 175, 201-207. | 0.7 | 7 |
| 82 | Transmission of persistent ionizing radiation-induced foci through cell division in human primary cells. <i>Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis</i> , 2017, 797-799, 15-25. | 0.4 | 7 |
| 83 | Establishment and validation of surface model for biodosimetry based on \hat{I}^3 -H2AX foci detection. <i>International Journal of Radiation Biology</i> , 2022, 98, 1-10. | 1.0 | 6 |
| 84 | RBE-LET relationship for proton and alpha irradiations studied with a nanodosimetric approach. <i>Radiation Protection Dosimetry</i> , 2014, 161, 449-453. | 0.4 | 5 |
| 85 | Effect of DMSO on radiation-induced chromosome aberrations analysed by FISH. <i>Cytogenetic and Genome Research</i> , 2004, 104, 168-172. | 0.6 | 4 |
| 86 | Polymorphisms in MDM2 and TP53 Genes and Risk of Developing Therapy-Related Myeloid Neoplasms. <i>Scientific Reports</i> , 2019, 9, 150. | 1.6 | 4 |
| 87 | Chromosomal aberration dynamics through the cell cycle. <i>DNA Repair</i> , 2020, 89, 102838. | 1.3 | 4 |
| 88 | Radiation effects in interventional radiology using biological and physical dosimetry methods: A case-control study. , 2008, 2008, 2809-12. | | 3 |
| 89 | Suitability of the \hat{I}^3 -H2AX Assay for Human Radiation Biodosimetry. , 2012, , . | | 2 |
| 90 | Frequency of dicentrics and contamination levels in Ukrainian children and adolescents from areas near Chernobyl 20 years after the nuclear plant accident. <i>International Journal of Radiation Biology</i> , 2013, 89, 944-949. | 1.0 | 2 |

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|----|---|-----|-----------|
| 91 | 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 |
| 92 | Redox Status, Dose and Antioxidant Intake in Healthcare Workers Occupationally Exposed to Ionizing Radiation. Antioxidants, 2020, 9, 778. | 2.2 | 2 |
| 93 | Uncertainty calculation methods in dose assessment for dicentric chromosome assay. International Journal of Radiation Biology, 2020, 96, 606-613. | 1.0 | 2 |
| 94 | Biological and physical methods for risk estimation in interventional radiology: A detrimental effect approach. , 2011, 2011, 108-11. | | 1 |
| 95 | 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 |
| 96 | Biological Dosimetry, Statistical Challenges: Biological Dosimetry After High-Dose Exposures to Ionizing Radiation. Trends in Mathematics, 2017, , 67-70. | 0.1 | 1 |
| 97 | 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 |
| 98 | 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 |
| 99 | Assessment methods for inter-laboratory comparisons of the dicentric assay. International Journal of Radiation Biology, 2023, 99, 431-438. | 1.0 | 0 |