Leonardo Barrios

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Chromosomal aberration dynamics through the cell cycle. DNA Repair, 2020, 89, 102838.	1.3	4
2	Cell Internalization in Fluidic Culture Conditions Is Improved When Microparticles Are Specifically Targeted to the Human Epidermal Growth Factor Receptor 2 (HER2). Pharmaceutics, 2019, 11, 177.	2.0	2
3	Permanently hydrophilic, piezoelectric PVDF nanofibrous scaffolds promoting unaided electromechanical stimulation on osteoblasts. Nanoscale, 2019, 11, 8906-8917.	2.8	109
4	Cytocompatibility assessment of Tiâ€Zrâ€Pdâ€Siâ€(Nb) alloys with low Young's modulus, increased hardness, and enhanced osteoblast differentiation for biomedical applications. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 834-842.	1.6	9
5	Assessment of Metallic Alloys Biocompatibility. , 2018, , 461-475.		0
6	Membrane reorganization after photochemical internalization to release transferrin-biofunctionalized polystyrene microparticles. Scientific Reports, 2018, 8, 17617.	1.6	5
7	Electrical stimulation of cells through photovoltaic microcell arrays. Nano Energy, 2018, 51, 571-578.	8.2	13
8	Cell Death Mechanisms in Tumoral and Non-Tumoral Human Cell Lines Triggered by Photodynamic Treatments: Apoptosis, Necrosis and Parthanatos. Scientific Reports, 2017, 7, 41340.	1.6	60
9	Electromechanical Nanogenerator–Cell Interaction Modulates Cell Activity. Advanced Materials, 2017, 29, 1605048.	11.1	116
10	The RENEB operational basis: complement of established biodosimetric assays. International Journal of Radiation Biology, 2017, 93, 15-19.	1.0	26
11	Amphiphilic gemini pyridinium-mediated incorporation of Zn(II)meso-tetrakis(4-carboxyphenyl)porphyrin into water-soluble gold nanoparticles for photodynamic therapy. Colloids and Surfaces B: Biointerfaces, 2017, 158, 602-609.	2.5	32
12	Mechanical properties, corrosion performance and cell viability studies on newly developed porous Fe-Mn-Si-Pd alloys. Journal of Alloys and Compounds, 2017, 724, 1046-1056.	2.8	37
13	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
14	RENEB – Running the European Network of biological dosimetry and physical retrospective dosimetry. International Journal of Radiation Biology, 2017, 93, 2-14.	1.0	52
15	RENEB intercomparisons applying the conventional Dicentric Chromosome Assay (DCA). International Journal of Radiation Biology, 2017, 93, 20-29.	1.0	77
16	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
17	Uncertainty of fast biological radiation dose assessment for emergency response scenarios. International Journal of Radiation Biology, 2017, 93, 127-135.	1.0	20
18	RENEB accident simulation exercise. International Journal of Radiation Biology, 2017, 93, 75-80.	1.0	10

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19	RENEB biodosimetry intercomparison analyzing translocations by FISH. International Journal of Radiation Biology, 2017, 93, 30-35.	1.0	22
20	Integration of new biological and physical retrospective dosimetry methods into EU emergency response plans – joint RENEB and EURADOS inter-laboratory comparisons. International Journal of Radiation Biology, 2017, 93, 99-109.	1.0	48
21	The harmonization process to set up and maintain an operational biological and physical retrospective dosimetry network: QA QM applied to the RENEB network. International Journal of Radiation Biology, 2017, 93, 81-86.	1.0	12
22	Biodegradable FeMnSi Sputter-Coated Macroporous Polypropylene Membranes for the Sustained Release of Drugs. Nanomaterials, 2017, 7, 155.	1.9	2
23	Study of Galfenol direct cytotoxicity and remote microactuation in cells. Biomaterials, 2017, 139, 67-74.	5.7	11
24	Analysis of α-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
25	Polysilicon-chromium-gold intracellular chips for multi-functional biomedical applications. Nanoscale, 2016, 8, 8773-8783.	2.8	9
26	Novel Fe–Mn–Si–Pd alloys: insights into mechanical, magnetic, corrosion resistance and biocompatibility performances. Journal of Materials Chemistry B, 2016, 4, 6402-6412.	2.9	37
27	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
28	A New Model for Biological Dose Assessment in Cases of Heterogeneous Exposures to Ionizing Radiation. Radiation Research, 2016, 185, 151.	0.7	11
29	Effect of Surface Modifications of Ti40Zr10Cu38Pd12 Bulk Metallic Glass and Ti-6Al-4V Alloy on Human Osteoblasts In Vitro Biocompatibility. PLoS ONE, 2016, 11, e0156644.	1.1	19
30	A New Porphyrin for the Preparation of Functionalized Waterâ€6oluble Gold Nanoparticles with Low Intrinsic Toxicity. ChemistryOpen, 2015, 4, 127-136.	0.9	36
31	Surface modification of microparticles causes differential uptake responses in normal and tumoral human breast epithelial cells. Scientific Reports, 2015, 5, 11371.	1.6	68
32	Nanostructured Tiâ€Zrâ€Pdâ€Siâ€(Nb) bulk metallic composites: Novel biocompatible materials with superior mechanical strength and elastic recovery. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 1569-1579.	1.6	8
33	Traceability of human sperm samples by direct tagging with polysilicon microbarcodes. Reproductive BioMedicine Online, 2015, 31, 162-170.	1.1	6
34	Realising the European network of biodosimetry: RENEBstatus 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	Technological development of intracellular polysilicon–chromium–gold chips for orthogonal chemical functionalization. Sensors and Actuators B: Chemical, 2015, 209, 212-224.	4.0	7

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37	Barcode tagging of human oocytes and embryos to prevent mix-ups in assisted reproduction technologies. Human Reproduction, 2014, 29, 18-28.	0.4	22
38	Multibiodose Radiation Emergency Triage Categorization Software. Health Physics, 2014, 107, 83-89.	0.3	9
39	Validation of Semi-automatic Scoring of Dicentric Chromosomes after Simulation of Three Different Irradiation Scenarios. Health Physics, 2014, 106, 764-771.	0.3	22
40	Identification of bovine embryos cultured in groups by attachment of barcodes to the zona pellucida. Reproduction, Fertility and Development, 2014, 26, 645.	0.1	4
41	In vitro biocompatibility assessment of Ti40Cu38Zr10Pd12 bulk metallic glass. Journal of Materials Science: Materials in Medicine, 2014, 25, 163-172.	1.7	19
42	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
43	Optimized immobilization of lectins using self-assembled monolayers on polysilicon encoded materials for cell tagging. Colloids and Surfaces B: Biointerfaces, 2014, 116, 104-113.	2.5	16
44	A New Model of Biodosimetry to Integrate Low and High Doses. PLoS ONE, 2014, 9, e114137.	1.1	25
45	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
46	Biomolecule screening for efficient attachment of biofunctionalized microparticles to the zona pellucida of mammalian oocytes and embryos. Biomedical Microdevices, 2013, 15, 801-809.	1.4	3
47	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
48	On the biodegradability, mechanical behavior, and cytocompatibility of amorphous Mg ₇₂ Zn ₂₃ Ca ₅ and crystalline Mg ₇₀ Zn ₂₃ Ca ₅ Pd ₂ alloys as temporary implant materials. Journal of Biomedical Materials Research - Part A, 2013, 101A, 502-517.	2.1	24
49	Direct embryo tagging and identification system by attachment of biofunctionalized polysilicon barcodes to the zona pellucida of mouse embryos. Human Reproduction, 2013, 28, 1519-1527.	0.4	19
50	Novel Ti–Zr–Hf–Fe Nanostructured Alloy for Biomedical Applications. Materials, 2013, 6, 4930-4945.	1.3	30
51	142 ZONA PELLUCIDA TAGGING WITH BARCODES ALLOWS THE TRACEABILITY OF BOVINE EMBRYOS CULTURED IN GROUP. Reproduction, Fertility and Development, 2013, 25, 218.	0.1	2
52	Realising the European Network of Biodosimetry (RENEB). Radiation Protection Dosimetry, 2012, 151, 621-625.	0.4	54
53	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
54	The Zona Pellucida Porosity: Three-Dimensional Reconstruction of Four Types of Mouse Oocyte Zona Pellucida Using a Dual Beam Microscope. Microscopy and Microanalysis, 2012, 18, 1442-1449.	0.2	11

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55	Detection of Circulating Cancer Cells Using Electrocatalytic Gold Nanoparticles. Small, 2012, 8, 3605-3612.	5.2	57
56	Enhancing microparticle internalization by nonphagocytic cells through the use of noncovalently conjugated polyethyleneimine. International Journal of Nanomedicine, 2012, 7, 5671.	3.3	8
57	Simple Monitoring of Cancer Cells Using Nanoparticles. Nano Letters, 2012, 12, 4164-4171.	4.5	94
58	Improved mechanical performance and delayed corrosion phenomena in biodegradable Mg–Zn–Ca alloys through Pd-alloying. Journal of the Mechanical Behavior of Biomedical Materials, 2012, 6, 53-62.	1.5	72
59	Induction of Incomplete and Complex Chromosome Aberrations by 30ÂkVp X Rays. Radiation Research, 2011, 175, 201-207.	0.7	7
60	Biological and physical methods for risk estimation in interventional radiology: A detrimental effect approach. , 2011, 2011, 108-11.		1
61	Chemical Functionalization of Polysilicon Microparticles for Single-Cell Studies. Langmuir, 2011, 27, 8302-8308.	1.6	7
62	A novel embryo identification system by direct tagging of mouse embryos using silicon-based barcodes. Human Reproduction, 2011, 26, 96-105.	0.4	26
63	Focus ion beam micromachined glass pipettes for cell microinjection. Biomedical Microdevices, 2010, 12, 311-316.	1.4	2
64	Internalization and cytotoxicity analysis of silicon-based microparticles in macrophages and embryos. Biomedical Microdevices, 2010, 12, 371-379.	1.4	22
65	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
66	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
67	Intracellular Polysilicon Barcodes for Cell Tracking. Small, 2009, 5, 2433-2439.	5.2	43
68	Persistence of Radiation-Induced Chromosome Aberrations in a Long-Term Cell Culture. Radiation Research, 2009, 171, 425-437.	0.7	18
69	Mitotic delay in lymphocytes from BRCA1 heterozygotes unable to reduce the radiation-induced chromosomal damage. DNA Repair, 2008, 7, 1907-1911.	1.3	13
70	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
71	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
72	Radiation effects in interventional radiology using biological and physical dosimetry methods: A		3

ng biological a case-control study. , 2008, 2008, 2809-12. 72 рі ıy 3

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73	RBE of X Rays of Different Energies: A Cytogenetic Evaluation by FISH. Radiation Research, 2008, 170, 93-100.	0.7	25
74	Analysis of Î ³ -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
75	Review of translocations detected by FISH for retrospective biological dosimetry applications. Radiation Protection Dosimetry, 2005, 113, 396-402.	0.4	91
76	A cytogenetic follow-up of some highly irradiated victims of the Chernobyl accident. Radiation Protection Dosimetry, 2005, 113, 152-161.	0.4	44
77	Assessment by cytogenetic analysis of the radioprotection properties of propolis extract. Radiation Protection Dosimetry, 2005, 115, 461-464.	0.4	18
78	Biological Dosimetry in a Group of Radiologists by the Analysis of Dicentrics and Translocations. Radiation Research, 2005, 164, 612-617.	0.7	22
79	Translocation yields in peripheral blood lymphocytes from control populations. International Journal of Radiation Biology, 2005, 81, 139-145.	1.0	54
80	Effect of DMSO on radiation-induced chromosome aberrations analysed by FISH. Cytogenetic and Genome Research, 2004, 104, 168-172.	0.6	4
81	Analysis of Translocations in Stable Cells and their Implications in Retrospective Biological Dosimetry. Radiation Research, 2004, 162, 31-38.	0.7	19
82	Analysis ofαâ€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
83	Suitability of FISH Painting Techniques for the Detection of Partial-Body Irradiations for Biological Dosimetry. Radiation Research, 2002, 157, 461-468.	0.7	28
84	Cytogenetic sensitivity of three Fanconi anemia heterozygotes to bleomycin and ionizing radiation. Cancer Genetics and Cytogenetics, 2001, 124, 80-83.	1.0	16
85	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
86	The influence of recombinant human granulocyte colony-stimulating factor on granulopoiesis in mice recovering from cyclophosphamide treatment. Methods and Findings in Experimental and Clinical Pharmacology, 2000, 22, 275.	0.8	5
87	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
88	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
89	Biological dosimetry in simulated in vitro partial irradiations. International Journal of Radiation Biology, 1997, 71, 435-440.	1.0	41
90	Interspecific micronucleus model for the study of induced chromosome aberrations in human male		0

germ cells. , 1997, , 122-131.

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91	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
92	Establishment and validation of a dose-effect curve for Î ³ -rays by cytogenetic analysis. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1995, 326, 65-69.	0.4	32
93	Human origin of micronuclei in human × hamster two-cell embryos. Cytogenetic and Genome Research, 1995, 70, 41-44.	0.6	5
94	Occupational Exposure to Radiation Induces an Adaptive Response in Human Lymphocytes. International Journal of Radiation Biology, 1995, 67, 187-191.	1.0	73
95	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
96	Sequential and Combined G-Banding for Identifying Breakpoints in Sister Chromatid Exchanges. Biotechnic and Histochemistry, 1992, 67, 106-109.	0.7	4
97	Induction of premature centromere division affecting all chromosomes under culture conditions of fragile site expression. Cancer Genetics and Cytogenetics, 1992, 58, 152-154.	1.0	5
98	A method to extract DNA for molecular studies from cells fixed in carnoy. Cancer Genetics and Cytogenetics, 1992, 59, 217-218.	1.0	2
99	Chromosomal instability in breast cancer patients. Human Genetics, 1991, 88, 39-41.	1.8	17
100	Telomere association of chromosomes induced by aphidicolin in a normal individual. Human Genetics, 1990, 84, 424-6.	1.8	8
101	Cytogenetic effects of radiotherapy: Frequency and types of chromosome aberrations. International Journal of Radiation Oncology Biology Physics, 1990, 19, 371-375.	0.4	11
102	Chromosome instability in bladder carcinoma patients. Cancer Genetics and Cytogenetics, 1990, 49, 107-111.	1.0	15
103	Expression of folate-sensitive fragile sites in lymphocyte chromosomes. Human Genetics, 1989, 81, 243-6.	1.8	10
104	Cytogenetic effects of radiotherapy breakpoint distribution in induced chromosome aberrations. Cancer Genetics and Cytogenetics, 1989, 41, 61-70.	1.0	104
105	Can sister chromatid intercrossings be considered as prelesions?. Human Genetics, 1988, 79, 179-180.	1.8	3
106	Concurrence of the triple-X syndrome and expression of the fragile site Xq27.3. Human Genetics, 1988, 78, 293-293.	1.8	7
107	Chromosome abnormalities in peripheral blood lymphocytes from untreated Hodgkin's patients. Human Genetics, 1988, 78, 320-324.	1.8	49
108	Constitutional del(3)(p14–p21) in a patient with bladder carcinoma. Cancer Genetics and Cytogenetics, 1986, 21, 171-173.	1.0	3

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109	Pharmacological Screening of Panamanian Medicinal Plants. Part 1. International Journal of Crude Drug Research, 1985, 23, 17-25.	0.3	16