

Gian Carlo Manicardi

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104
papers

4,104
citations

31
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62
g-index

108
ext. papers

4,397
ext. citations

3.3
avg, IF

4.74
L-index

#	Paper	IF	Citations
104	Origin of DNA damage in ejaculated human spermatozoa. <i>Reproduction</i> , 1999 , 4, 31-7		394
103	Nature of DNA damage in ejaculated human spermatozoa and the possible involvement of apoptosis. <i>Biology of Reproduction</i> , 2002 , 66, 1061-7	3.9	338
102	Presence of endogenous nicks in DNA of ejaculated human spermatozoa and its relationship to chromomycin A3 accessibility. <i>Biology of Reproduction</i> , 1995 , 52, 864-7	3.9	269
101	Interrelationships between seminal parameters and sperm nuclear DNA damage before and after density gradient centrifugation: implications for assisted conception. <i>Human Reproduction</i> , 2001 , 16, 2160-5	5.7	216
100	Effect of deoxyribonucleic acid protamination on fluorochrome staining and in situ nick-translation of murine and human mature spermatozoa. <i>Biology of Reproduction</i> , 1993 , 49, 1083-8	3.9	215
99	Abnormal spermatozoa in the ejaculate: abortive apoptosis and faulty nuclear remodelling during spermatogenesis. <i>Reproductive BioMedicine Online</i> , 2003 , 7, 428-32	4	204
98	The use of two density gradient centrifugation techniques and the swim-up method to separate spermatozoa with chromatin and nuclear DNA anomalies. <i>Human Reproduction</i> , 2000 , 15, 1112-6	5.7	170
97	Chromatin packaging and morphology in ejaculated human spermatozoa: evidence of hidden anomalies in normal spermatozoa. <i>Molecular Human Reproduction</i> , 1996 , 2, 139-44	4.4	121
96	Relationship between the presence of endogenous nicks and sperm chromatin packaging in maturing and fertilizing mouse spermatozoa. <i>Biology of Reproduction</i> , 1995 , 52, 1149-55	3.9	114
95	Semen quality and exposure to persistent organochlorine pollutants. <i>Epidemiology</i> , 2006 , 17, 450-8	3.1	104
94	Fertility and markers of male reproductive function in Inuit and European populations spanning large contrasts in blood levels of persistent organochlorines. <i>Environmental Health Perspectives</i> , 2008 , 116, 269-77	8.4	87
93	Fertility in four regions spanning large contrasts in serum levels of widespread persistent organochlorines: a cross-sectional study. <i>Environmental Health</i> , 2005 , 4, 26	6	85
92	Inter-population variations in concentrations, determinants of and correlations between 2,2,4,4,5,5-hexachlorobiphenyl (CB-153) and 1,1-dichloro-2,2-bis (p-chlorophenyl)-ethylene (p,p'DDE): a cross-sectional study of 3161 men and women from Inuit and European populations. <i>Environmental Health</i> , 2005 , 4, 27	6	81
91	Acetylcholinesterase mutation in an insecticide-resistant population of the codling moth <i>Cydia pomonella</i> (L.). <i>Insect Biochemistry and Molecular Biology</i> , 2006 , 36, 642-53	4.5	68
90	The significance of sperm nuclear DNA strand breaks on reproductive outcome. <i>Current Opinion in Obstetrics and Gynecology</i> , 2005 , 17, 255-60	2.4	65
89	DNA strand breaks in ejaculated human spermatozoa: comparison of susceptibility to the nick translation and terminal transferase assays. <i>The Histochemical Journal</i> , 1998 , 30, 33-9		63
88	Reduced senescence and retained nuclear DNA integrity in human spermatozoa prepared by density gradient centrifugation. <i>Journal of Assisted Reproduction and Genetics</i> , 2004 , 21, 217-22	3.4	59

87	Sperm DNA integrity in relation to exposure to environmental perfluoroalkyl substances - a study of spouses of pregnant women in three geographical regions. <i>Reproductive Toxicology</i> , 2012 , 33, 577-583 ^{3,4}		58
86	Relationships between sperm DNA fragmentation, sperm apoptotic markers and serum levels of CB-153 and p,p'DDE in European and Inuit populations. <i>Reproduction</i> , 2006 , 132, 949-58	3.8	54
85	The presence of abnormal spermatozoa in the ejaculate: did apoptosis fail?. <i>Human Fertility</i> , 2004 , 7, 99-103	1.9	53
84	Reproductive hormone levels in men exposed to persistent organohalogen pollutants: a study of inuit and three European cohorts. <i>Environmental Health Perspectives</i> , 2006 , 114, 1348-53	8.4	51
83	Cytogenetic and molecular characterization of a highly repeated DNA sequence in the peach potato aphid <i>Myzus persicae</i> . <i>Chromosoma</i> , 1999 , 108, 436-42	2.8	48
82	In-situ competition between protamine and fluorochromes for sperm DNA. <i>Molecular Human Reproduction</i> , 1998 , 4, 127-32	4.4	45
81	Impact of PCB and p,p'DDE contaminants on human sperm Y:X chromosome ratio: studies in three European populations and the Inuit population in Greenland. <i>Environmental Health Perspectives</i> , 2006 , 114, 718-24	8.4	41
80	NOR heteromorphism within a parthenogenetic lineage of the aphid <i>Megoura viciae</i> . <i>Chromosome Research</i> , 1999 , 7, 157-62	4.4	39
79	Androgen receptor gene CAG repeat length as a modifier of the association between persistent organohalogen pollutant exposure markers and semen characteristics. <i>Pharmacogenetics and Genomics</i> , 2007 , 17, 391-401	1.9	38
78	Bis-(2-ethylexhyl) phthalate impairs spermatogenesis in zebrafish (<i>Danio rerio</i>). <i>Reproductive Biology</i> , 2013 , 13, 195-202	2.3	35
77	The Interrelationships of the Gastrotricha Using Nuclear Small rRNA Subunit Sequence Data, with an Interpretation Based on Morphology. <i>Zoologischer Anzeiger</i> , 2003 , 242, 145-156	1.1	34
76	Sperm nuclear DNA damage in the human. <i>Advances in Experimental Medicine and Biology</i> , 2003 , 518, 73-84	3.6	33
75	Presence of a functional (TTAGG)(n) telomere-telomerase system in aphids. <i>Chromosome Research</i> , 2011 , 19, 625-33	4.4	31
74	Chromosomal localization of a highly repeated EcoRI DNA fragment in <i>Megoura viciae</i> (Homoptera, Aphididae) by nick translation and fluorescence in situ hybridization. <i>Chromosome Research</i> , 1996 , 4, 392-6	4.4	31
73	The role of rDNA genes in X chromosome association in the aphid <i>Acyrtosiphon pisum</i> . <i>Genome</i> , 1999 , 42, 381-6	2.4	30
72	Biochemical and molecular diagnosis of insecticide resistance conferred by esterase, MACE, kdr and super-kdr based mechanisms in Italian strains of the peach potato aphid, <i>Myzus persicae</i> (Sulzer). <i>Pesticide Biochemistry and Physiology</i> , 2008 , 90, 168-174	4.9	29
71	Use of the RFLP-PCR diagnostic test for characterizing MACE and kdr insecticide resistance in the peach potato aphid <i>Myzus persicae</i> . <i>Pest Management Science</i> , 2005 , 61, 91-6	4.6	29
70	Heterochromatin heterogeneity in the holocentric X chromatin of <i>Megoura viciae</i> (Homoptera, Aphididae). <i>Genome</i> , 1996 , 39, 465-70	2.4	29

69	The cytogenetic architecture of the aphid genome. <i>Biological Reviews</i> , 2015 , 90, 112-25	13.5	28
68	Unlocking holocentric chromosomes: new perspectives from comparative and functional genomics?. <i>Current Genomics</i> , 2012 , 13, 343-9	2.6	27
67	Use of the guanine-cytosine (GC) specific fluorochrome, chromomycin A3, as an indicator of poor sperm morphology. <i>Journal of Assisted Reproduction and Genetics</i> , 1996 , 13, 246-50	3.4	26
66	Chromosome analysis and molecular characterization of highly repeated DNAs in the aphid <i>Acyrtosiphon pisum</i> (Aphididae, Hemiptera). <i>Genetica</i> , 2000 , 108, 197-202	1.5	25
65	Sperm decondensation during fertilisation in the mouse: presence of DNase I hypersensitive sites in situ and a putative role for topoisomerase II. <i>Zygote</i> , 2000 , 8, 197-202	1.6	24
64	Chromosome banding in aphids: G, C, AluI, and HaeIII banding patterns in <i>Megoura viciae</i> (Homoptera, Aphididae). <i>Genome</i> , 1991 , 34, 661-665	2.4	23
63	Composition and epigenetic markers of heterochromatin in the aphid <i>Aphis nerii</i> (Hemiptera: Aphididae). <i>Cytogenetic and Genome Research</i> , 2011 , 133, 67-77	1.9	21
62	Cytogenetic and molecular characterization of the MBSAT1 satellite DNA in holokinetic chromosomes of the cabbage moth, <i>Mamestra brassicae</i> (Lepidoptera). <i>Chromosome Research</i> , 2003 , 11, 51-6	4.4	20
61	The vanishing clone: karyotypic evidence for extensive intraclonal genetic variation in the peach potato aphid, <i>Myzus persicae</i> (Hemiptera: Aphididae). <i>Biological Journal of the Linnean Society</i> , 2012 , 105, 350-358	1.9	19
60	Human cervical mucus can act in vitro as a selective barrier against spermatozoa carrying fragmented DNA and chromatin structural abnormalities. <i>Journal of Assisted Reproduction and Genetics</i> , 2004 , 21, 97-102	3.4	19
59	Exposure to polybrominated diphenyl ethers and male reproductive function in Greenland, Poland and Ukraine. <i>Reproductive Toxicology</i> , 2014 , 43, 1-7	3.4	18
58	Association between exposure to persistent organohalogen pollutants and epididymal and accessory sex gland function: multicentre study in Inuit and European populations. <i>Reproductive Toxicology</i> , 2006 , 22, 765-73	3.4	18
57	Xenoandrogenic activity in serum differs across European and Inuit populations. <i>Environmental Health Perspectives</i> , 2007 , 115 Suppl 1, 21-7	8.4	17
56	Relation between serum xenobiotic-induced receptor activities and sperm DNA damage and sperm apoptotic markers in European and Inuit populations. <i>Reproduction</i> , 2007 , 133, 517-30	3.8	17
55	X-linked heterochromatin distribution in the holocentric chromosomes of the green apple aphid <i>Aphis pomi</i> . <i>Genetica</i> , 2005 , 124, 93-8	1.5	17
54	Interactions between polymorphisms in the aryl hydrocarbon receptor signalling pathway and exposure to persistent organochlorine pollutants affect human semen quality. <i>Reproductive Toxicology</i> , 2014 , 49, 65-73	3.4	16
53	Continuous occurrence of intra-individual chromosome rearrangements in the peach potato aphid, <i>Myzus persicae</i> (Sulzer) (Hemiptera: Aphididae). <i>Genetica</i> , 2012 , 140, 93-103	1.5	16
52	Relationship among expression, amplification, and methylation of FE4 esterase genes in Italian populations of <i>Myzus persicae</i> (Sulzer) (Homoptera: Aphididae). <i>Pesticide Biochemistry and Physiology</i> , 2005 , 81, 51-58	4.9	15

51	Cytological and electrophoretic analysis of DNA methylation in the holocentric chromosomes of <i>Megoura viciae</i> (Homoptera, Aphididae). <i>Genome</i> , 1994 , 37, 625-30	2.4	15
50	The Evolutionary History and Functional Divergence of Trehalase () Genes in Insects. <i>Frontiers in Physiology</i> , 2019 , 10, 62	4.6	14
49	Fast chromosomal evolution and karyotype instability: recurrent chromosomal rearrangements in the peach potato aphid <i>Myzus persicae</i> (Hemiptera: Aphididae). <i>Biological Journal of the Linnean Society</i> , 2015 , 116, 519-529	1.9	14
48	Cytogenetic and molecular analysis of the holocentric chromosomes of the potato aphid <i>Macrosiphum euphorbiae</i> (Thomas, 1878). <i>Comparative Cytogenetics</i> , 2011 , 5, 163-72	1	14
47	Molecular and cytogenetic analysis of the goby <i>Gobius niger</i> (Teleostei, Gobiidae). <i>Genetica</i> , 2000 , 110, 73-8	1.5	14
46	Xenobiotic activity in serum and sperm chromatin integrity in European and inuit populations. <i>Molecular Reproduction and Development</i> , 2008 , 75, 669-80	2.6	13
45	Two new species of soil moss eutardigrades (Tardigrada) from Canada. <i>Canadian Journal of Zoology</i> , 1989 , 67, 2282-2285	1.5	13
44	Cytogenetic and Molecular Analysis of Heterochromatic Areas in the Holocentric Chromosomes of Different Aphid Species 2002 , 47-56		13
43	Recent changes in the distribution of carboxylesterase genes and associated chromosomal rearrangements in Greek populations of the tobacco aphid <i>Myzus persicae nicotianae</i> . <i>Biological Journal of the Linnean Society</i> , 2014 , 113, 455-470	1.9	12
42	Karyotype rearrangements and telomere analysis in <i>Myzus persicae</i> (Hemiptera, Aphididae) strains collected on <i>Lavandula</i> sp. plants. <i>Comparative Cytogenetics</i> , 2014 , 8, 259-74	1	12
41	A1-3 chromosomal translocations in Italian populations of the peach potato aphid <i>Myzus persicae</i> (Sulzer) not linked to esterase-based insecticide resistance. <i>Bulletin of Entomological Research</i> , 2013 , 103, 278-85	1.7	12
40	Karyotype variations in Italian populations of the peach-potato aphid <i>Myzus persicae</i> (Hemiptera: Aphididae). <i>Bulletin of Entomological Research</i> , 2012 , 102, 663-71	1.7	12
39	Environmental hexachlorobenzene exposure and human male reproductive function. <i>Reproductive Toxicology</i> , 2015 , 58, 8-14	3.4	11
38	Characterization of non-LTR retrotransposable TRAS elements in the aphids <i>Acyrtosiphon pisum</i> and <i>Myzus persicae</i> (Aphididae, Hemiptera). <i>Journal of Heredity</i> , 2013 , 104, 547-53	2.4	11
37	Survey of susceptibility to abamectin of pear psylla (Hemiptera: Psyllidae) in northern Italy. <i>Journal of Economic Entomology</i> , 2010 , 103, 816-22	2.2	11
36	Silver staining as a new banding technique to identify aphid chromosomes. <i>Chromosome Research</i> , 1998 , 6, 55-7	4.4	11
35	Patterns of DNase I sensitivity in the holocentric chromosomes of the aphid <i>Megoura viciae</i> . <i>Genome</i> , 1998 , 41, 169-172	2.4	11
34	<i>Macrobotus pseudohufelandi</i> Iharos as a model for cytotaxonomic study in populations of eutardigrades (Tardigrada). <i>Experientia</i> , 1987 , 43, 210-213		11

33	Distribution of heterochromatin and rDNA on the holocentric chromosomes of the aphids <i>Dysaphis plantaginea</i> and <i>Melanaphis pyraia</i> (Hemiptera: Aphididae). <i>European Journal of Entomology</i> , 2009 , 106, 153-157		9
32	Holocentric chromosomes. <i>PLoS Genetics</i> , 2020 , 16, e1008918	6	9
31	Non-linear association between androgen receptor CAG and GGN repeat lengths and reproductive parameters in fertile European and Inuit men. <i>Molecular and Cellular Endocrinology</i> , 2013 , 370, 163-71	4.4	8
30	Distribution and molecular composition of heterochromatin in the holocentric chromosomes of the aphid <i>Rhopalosiphum padi</i> (Hemiptera: Aphididae). <i>Genetica</i> , 2010 , 138, 1077-84	1.5	8
29	Cytogenetic analysis of the pufferfish <i>Tetraodon fluviatilis</i> (Osteichthyes). <i>Chromosome Research</i> , 2000 , 8, 237-42	4.4	8
28	Localization of the (TTAGGG) _n telomeric repeat in the chromosomes of the pufferfish <i>Tetraodon fluviatilis</i> (Hamilton Buchanan) (Osteichthyes). <i>Caryologia</i> , 1999 , 52, 155-157		8
27	Cytogenetic Analysis of the Holocentric Chromosomes of the Aphid <i>Schizaphis Graminum</i> . <i>Hereditas</i> , 2004 , 131, 185-190	2.4	7
26	Cytogenetic and molecular analysis of the pufferfish <i>Tetraodon fluviatilis</i> (Osteichthyes). <i>Genetica</i> , 2001 , 111, 433-8	1.5	7
25	The role of rDNA genes in X chromosome association in the aphid <i>Acyrtosiphon pisum</i> . <i>Genome</i> , 1999 , 42, 381-386	2.4	7
24	Analysis of the extent of synteny and conservation in the gene order in aphids: A first glimpse from the <i>Aphis glycines</i> genome. <i>Insect Biochemistry and Molecular Biology</i> , 2019 , 113, 103228	4.5	6
23	Starting at the end: telomeres and telomerase in arthropods. <i>Biomolecular Concepts</i> , 2012 , 3, 465-70	3.7	6
22	Analysis of insect holocentric chromosomes by atomic force microscopy. <i>Hereditas</i> , 2003 , 138, 129-32	2.4	6
21	Nuclear DNA content in <i>Gastrotricha</i> . <i>Experientia</i> , 1995 , 51, 356-359		6
20	DNA content in the nurse cell nuclei of viviparous and oviparous females of <i>Megoura viciae</i> (Homoptera, Aphididae). <i>Invertebrate Reproduction and Development</i> , 1995 , 28, 1-6	0.7	6
19	Genomic and Cytogenetic Localization of the Carotenoid Genes in the Aphid Genome. <i>Cytogenetic and Genome Research</i> , 2016 , 149, 207-217	1.9	6
18	Comparative Gene Mapping as a Tool to Understand the Evolution of Pest Crop Insect Chromosomes. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	5
17	New cases of hermaphroditism in tardigrades. <i>International Journal of Invertebrate Reproduction and Development</i> , 1986 , 9, 363-366		5
16	A cytochemical study of mature mouse spermatozoa after C-banding treatment. <i>European Journal of Histochemistry</i> , 1993 , 37, 155-9	2.1	5

15	Afit: a bioinformatic tool for measuring aphid fitness and invasiveness. <i>Bulletin of Entomological Research</i> , 2017 , 107, 458-465	1.7	4
14	Ecological genetics of Italian peach-potato aphid (<i>Myzus persicae</i>) populations in relation to geography, dispersal and insecticide resistance as studied using microsatellite and resistance markers. <i>Agricultural and Forest Entomology</i> , 2016 , 18, 376-389	1.9	4
13	Patterns of DNase I sensitivity in the holocentric chromosomes of the aphid <i>Megoura viciae</i> . <i>Genome</i> , 1998 , 41, 169-172	2.4	4
12	Occurrence of Rab1-like telomere clustering in the holocentric chromosomes of the peach potato aphid <i>Myzus persicae</i> (Hemiptera; Aphididae). <i>Cytogenetic and Genome Research</i> , 2014 , 144, 68-75	1.9	3
11	Basic and Clinical Aspects of Sperm Chromomycin A3 Assay 2011 , 171-179		3
10	Transposon-mediated insertional mutagenesis unmasks recessive insecticide resistance in the aphid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	3
9	Comparative Analysis of - and -Specific Genomic Variability in the Peach Potato Aphid,. <i>Insects</i> , 2019 , 10,	2.8	2
8	A novel in vitro sperm head decondensation protocol for rapid flow cytometric measurement of deoxyribonucleic acid content. <i>Fertility and Sterility</i> , 2013 , 99, 1857-61	4.8	2
7	Cytogenetic analysis on the holocentric chromosomes of the cabbage aphid <i>Brevicoryne brassicae</i> . <i>Caryologia</i> , 2003 , 56, 143-147		2
6	Chromatin Damage and Male Infertility 2007 , 303-315		2
5	Potential role of the heat shock protein 90 (hsp90) in buffering mutations to favour cyclical parthenogenesis in the peach potato aphid (Aphididae, Hemiptera). <i>Bulletin of Entomological Research</i> , 2019 , 109, 426-434	1.7	2
4	Evolutionary insights into the aphid genome: Aphid genomics between quality problems and intriguing perspectives. <i>International Review of Cell and Molecular Biology</i> , 2020 , 354, 215-230	6	0
3	Relationship between apoptotic markers in semen from fertile men and demographic, hormonal and seminal characteristics. <i>Asian Journal of Andrology</i> , 2012 , 14, 890-6	2.8	
2	Chapter 8:Safety of Sperm for Use in Intra-Cytoplasmic Sperm Injection. <i>Issues in Toxicology</i> , 2007 , 85-93	0.3	
1	Basic and Clinical Aspects of Sperm Chromomycin A3 Assay 2013 , 283-293		