

# Gian Carlo Manicardi

## List of Publications by Year in descending order

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108  
papers

4,823  
citations

136885

32  
h-index

98753

67  
g-index

108  
all docs

108  
docs citations

108  
times ranked

3224  
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin of DNA damage in ejaculated human spermatozoa. <i>Reproduction</i> , 1999, 4, 31-37.	2.0	444
2	Nature of DNA Damage in Ejaculated Human Spermatozoa and the Possible Involvement of Apoptosis1. <i>Biology of Reproduction</i> , 2002, 66, 1061-1067.	1.2	377
3	Presence of Endogenous Nicks in DNA of Ejaculated Human Spermatozoa and its Relationship to Chromomycin A3 Accessibility1. <i>Biology of Reproduction</i> , 1995, 52, 864-867.	1.2	304
4	Effect of Deoxyribonucleic Acid Protamination on Fluorochrome Staining and in Situ Nick-Translation of Murine and Human Mature Spermatozoa1. <i>Biology of Reproduction</i> , 1993, 49, 1083-1088.	1.2	248
5	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, 2160-2165.	0.4	246
6	Abnormal spermatozoa in the ejaculate: abortive apoptosis and faulty nuclear remodelling during spermatogenesis. <i>Reproductive BioMedicine Online</i> , 2003, 7, 428-432.	1.1	236
7	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, 1112-1116.	0.4	208
8	Chromatin packaging and morphology in ejaculated human spermatozoa: evidence of hidden anomalies in normal spermatozoa. <i>Molecular Human Reproduction</i> , 1996, 2, 139-144.	1.3	134
9	Relationship between the Presence of Endogenous Nicks and Sperm Chromatin Packaging in Maturing and Fertilizing Mouse Spermatozoa1. <i>Biology of Reproduction</i> , 1995, 52, 1149-1155.	1.2	126
10	Semen Quality and Exposure to Persistent Organochlorine Pollutants. <i>Epidemiology</i> , 2006, 17, 450-458.	1.2	122
11	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, 269-277.	2.8	100
12	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.	1.7	98
13	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.	1.7	90
14	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, 33-39.	0.6	83
15	The significance of sperm nuclear DNA strand breaks on reproductive outcome. <i>Current Opinion in Obstetrics and Gynecology</i> , 2005, 17, 255-260.	0.9	82
16	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, 642-653.	1.2	80
17	The presence of abnormal spermatozoa in the ejaculate: Did apoptosis fail?. <i>Human Fertility</i> , 2004, 7, 99-103.	0.7	70
18	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, 217-222.	1.2	67

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19	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, 949-958.	1.1	63
20	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.	1.3	62
21	In-situ competition between protamine and fluorochromes for sperm DNA. <i>Molecular Human Reproduction</i> , 1998, 4, 127-132.	1.3	56
22	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, 1348-1353.	2.8	55
23	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.	0.4	50
24	Cytogenetic and molecular characterization of a highly repeated DNA sequence in the peach potato aphid <i>Myzus persicae</i> . <i>Chromosoma</i> , 1999, 108, 436-442.	1.0	49
25	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, 718-724.	2.8	47
26	Sperm Nuclear DNA Damage in the Human. <i>Advances in Experimental Medicine and Biology</i> , 2003, 518, 73-84.	0.8	44
27	NOR heteromorphism within a parthenogenetic lineage of the aphid <i>Megoura viciae</i> . <i>Chromosome Research</i> , 1999, 7, 157-162.	1.0	42
28	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.	0.7	42
29	Bis-(2-ethylexhyl) phthalate impairs spermatogenesis in zebrafish ( <i>Danio rerio</i> ). <i>Reproductive Biology</i> , 2013, 13, 195-202.	0.9	42
30	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.	1.6	38
31	Holocentric chromosomes. <i>PLoS Genetics</i> , 2020, 16, e1008918.	1.5	36
32	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, 91-96.	1.7	35
33	The cytogenetic architecture of the aphid genome. <i>Biological Reviews</i> , 2015, 90, 112-125.	4.7	35
34	Chromosomal localization of a highly repeated EcoRI DNA fragment in <i>Megoura viciae</i> (Homoptera). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i> 392-396.	1.0	34
35	Heterochromatin heterogeneity in the holocentric X chromatin of <i>Megoura viciae</i> (Homoptera). <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50</i>	0.9	32
36	The role of rDNA genes in X chromosome association in the aphid <i>Acyrtosiphon pisum</i> . <i>Genome</i> , 1999, 42, 381-386.	0.9	32

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37	Presence of a functional (TTAGG) n telomere-telomerase system in aphids. <i>Chromosome Research</i> , 2011, 19, 625-633.	1.0	32
38	Unlocking Holocentric Chromosomes: New Perspectives from Comparative and Functional Genomics?. <i>Current Genomics</i> , 2012, 13, 343-349.	0.7	32
39	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.	0.5	30
40	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, 246-250.	1.2	29
41	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.	0.5	28
42	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, 51-56.	1.0	28
43	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.	0.6	26
44	The Evolutionary History and Functional Divergence of Trehalase (treh) Genes in Insects. <i>Frontiers in Physiology</i> , 2019, 10, 62.	1.3	25
45	Chromosome banding in aphids: G, C, <i>Alu</i>, and <i>Hae</i>III banding patterns in <i>Megoura viciae</i> (Homoptera, Aphididae). <i>Genome</i> , 1991, 34, 661-665.	0.9	24
46	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.	1.2	24
47	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.	0.7	24
48	Xenoandrogenic Activity in Serum Differs across European and Inuit Populations. <i>Environmental Health Perspectives</i> , 2007, 115, 21-27.	2.8	23
49	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, 517-530.	1.1	22
50	Exposure to polybrominated diphenyl ethers and male reproductive function in Greenland, Poland and Ukraine. <i>Reproductive Toxicology</i> , 2014, 43, 1-7.	1.3	21
51	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.	0.5	20
52	Molecular and cytogenetic analysis of the goby <i>Gobius niger</i> (Teleostei, Gobiidae). <i>Genetica</i> , 2000, 110, 73-78.	0.5	19
53	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.	1.6	19
54	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, 765-773.	1.3	19

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55	Survey of Susceptibility to Abamectin of Pear Psylla (Hemiptera: Psyllidae) in Northern Italy. <i>Journal of Economic Entomology</i> , 2010, 103, 816-822.	0.8	18
56	Transposon-mediated insertional mutagenesis unmasks recessive insecticide resistance in the aphid <i>Myzus persicae</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	18
57	X-linked heterochromatin distribution in the holocentric chromosomes of the green apple aphid <i>Aphis pomi</i> . <i>Genetica</i> , 2005, 124, 93-98.	0.5	17
58	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.	0.7	17
59	Cytological and electrophoretic analysis of DNA methylation in the holocentric chromosomes of <i>Megoura viciae</i> (Homoptera, Aphididae). <i>Genome</i> , 1994, 37, 625-630.	0.9	16
60	Xenobiotic activity in serum and sperm chromatin integrity in European and inuit populations. <i>Molecular Reproduction and Development</i> , 2008, 75, 669-680.	1.0	16
61	Cytogenetic and molecular analysis of the holocentric chromosomes of the potato aphid <i>Macrosiphum euphorbiae</i> (Thomas, 1878). <i>Comparative Cytogenetics</i> , 2011, 5, 163-172.	0.3	16
62	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.	1.3	16
63	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.	1.2	16
64	Two new species of soil moss eutardigrades (Tardigrada) from Canada. <i>Canadian Journal of Zoology</i> , 1989, 67, 2282-2285.	0.4	15
65	Environmental hexachlorobenzene exposure and human male reproductive function. <i>Reproductive Toxicology</i> , 2015, 58, 8-14.	1.3	15
66	Karyotype variations in Italian populations of the peach-potato aphid <i>Myzus persicae</i> (Hemiptera: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.5	14
67	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, 547-553.	1.0	14
68	Cytogenetic and Molecular Analysis of Heterochromatic Areas in the Holocentric Chromosomes of Different Aphid Species. , 2002, , 47-56.		14
69	Silver staining as a new banding technique to identify aphid chromosomes. <i>Chromosome Research</i> , 1998, 6, 55-57.	1.0	13
70	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, 278-285.	0.5	13
71	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.	0.7	13
72	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, 259-274.	0.3	13

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73	Macrobiotus pseudohufelandi Iharos as a model for cytotoxic study in populations of eutardigrades (Tardigrada). <i>Experientia</i> , 1987, 43, 210-213.	1.2	12
74	Patterns of DNase I sensitivity in the holocentric chromosomes of the aphid <i>Megoura viciae</i> . <i>Genome</i> , 1998, 41, 169-172.	0.9	12
75	Cytogenetic and molecular analysis of the pufferfish <i>Tetraodon fluviatilis</i> (Osteichthyes). <i>Genetica</i> , 2001, 111, 433-438.	0.5	12
76	Potential role of the heat shock protein 90 (hsp90) in buffering mutations to favour cyclical parthenogenesis in the peach potato aphid <i>Myzus persicae</i> (Aphididae, Hemiptera). <i>Bulletin of Entomological Research</i> , 2019, 109, 426-434.	0.5	11
77	Distribution and molecular composition of heterochromatin in the holocentric chromosomes of the aphid <i>Rhopalosiphum padi</i> (Hemiptera: Aphididae). <i>Genetica</i> , 2010, 138, 1077-1084.	0.5	10
78	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, 163-171.	1.6	10
79	Cytogenetic analysis of the pufferfish <i>Tetraodon fluviatilis</i> (Osteichthyes). <i>Chromosome Research</i> , 2000, 8, 237-242.	1.0	9
80	Genomic and Cytogenetic Localization of the Carotenoid Genes in the Aphid Genome. <i>Cytogenetic and Genome Research</i> , 2016, 149, 207-217.	0.6	9
81	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.	0.3	8
82	Localization of the (TTAGGG) <sub>n</sub> telomeric repeat in the chromosomes of the pufferfish <i>Tetraodon fluviatilis</i> (Hamilton Buchanan) (Osteichthyes). <i>Caryologia</i> , 1999, 52, 155-157.	0.2	8
83	Cytogenetic Analysis of the Holocentric Chromosomes of the Aphid <i>Schizaphis Graminum</i> . <i>Hereditas</i> , 2004, 131, 185-190.	0.5	8
84	Starting at the end: telomeres and telomerase in arthropods. <i>Biomolecular Concepts</i> , 2012, 3, 465-470.	1.0	8
85	Afit: a bioinformatic tool for measuring aphid fitness and invasiveness. <i>Bulletin of Entomological Research</i> , 2017, 107, 458-465.	0.5	8
86	Analysis of insect holocentric chromosomes by atomic force microscopy. <i>Hereditas</i> , 2003, 138, 129-132.	0.5	7
87	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.	1.2	7
88	The role of rDNA genes in X chromosome association in the aphid <i>Acyrtosiphon pisum</i> . <i>Genome</i> , 1999, 42, 381-386.	0.9	7
89	New cases of hermaphroditism in tardigrades. <i>International Journal of Invertebrate Reproduction and Development</i> , 1986, 9, 363-366.	0.8	6
90	Nuclear DNA content in <i>Gastrotricha</i> . <i>Experientia</i> , 1995, 51, 356-359.	1.2	6

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91	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.	0.7	5
92	Comparative Gene Mapping as a Tool to Understand the Evolution of Pest Crop Insect Chromosomes. <i>International Journal of Molecular Sciences</i> , 2017, 18, 1919.	1.8	5
93	A cytochemical study of mature mouse spermatozoa after C-banding treatment. <i>European Journal of Histochemistry</i> , 1993, 37, 155-9.	0.6	5
94	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.	0.6	4
95	Patterns of DNase I sensitivity in the holocentric chromosomes of the aphid <i>Megoura viciae</i> . <i>Genome</i> , 1998, 41, 169-172.	0.9	4
96	Basic and Clinical Aspects of Sperm Chromomycin A3 Assay. , 2011, , 171-179.		3
97	Comparative Analysis of Intra- and Inter-Specific Genomic Variability in the Peach Potato Aphid, <i>Myzus persicae</i> . <i>Insects</i> , 2019, 10, 368.	1.0	3
98	Cytogenetic analysis on the holocentric chromosomes of the cabbage aphid <i>Brevicoryne brassicae</i> . <i>Caryologia</i> , 2003, 56, 143-147.	0.2	2
99	A novel in vitro sperm head decondensation protocol for rapid flow cytometric measurement of deoxyribonucleic acid content. <i>Fertility and Sterility</i> , 2013, 99, 1857-1861.	0.5	2
100	Chromatin Damage and Male Infertility. , 2007, , 303-315.		2
101	Session 16: New Approaches for Sperm DNA Testing. <i>Human Reproduction</i> , 2010, 25, i24-i26.	0.4	1
102	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.	1.6	1
103	Relation between serum xenobiotic induced receptor activities and DNA damage and sperm apoptotic markers in European and Inuit populations. <i>Toxicology Letters</i> , 2008, 180, S189-S190.	0.4	0
104	Relationship between apoptotic markers in semen from fertile men and demographic, hormonal and seminal characteristics. <i>Asian Journal of Andrology</i> , 2012, 14, 890-896.	0.8	0
105	Xenobiotic Activities in Serum of Inuit and European Populations: Effects on Semen DNA Quality Markers. <i>Epidemiology</i> , 2006, 17, S332.	1.2	0
106	Chapter 8. Safety of Sperm for Use in Intra-Cytoplasmic Sperm Injection. <i>Issues in Toxicology</i> , 2007, , 85-93.	0.2	0
107	Basic and Clinical Aspects of Sperm Chromomycin A3 Assay. , 2013, , 283-293.		0
108	The foraging Gene Is Involved in the Presence of Wings and Explorative Behaviours in Parthenogenetic Females of the Aphid <i>Myzus persicae</i> . <i>Life</i> , 2022, 12, 369.	1.1	0