Juan Luis Santos

List of Publications by Year
in descending order

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89 papers	2,921 citations	201674 27 h-index	197818 49 g-index
90 all docs	90 docs citations	90 times ranked	2177 citing authors

#	Article	IF	Citations
1	FANCM Limits Meiotic Crossovers. Science, 2012, 336, 1588-1590.	12.6	252
2	ASY1 mediates AtDMC1-dependent interhomolog recombination during meiosis in Arabidopsis. Genes and Development, 2007, 21, 2220-2233.	5.9	247
3	Chiasma formation in Arabidopsis thaliana accession Wassileskija and in two meiotic mutants. Chromosome Research, 2001, 9, 121-128.	2.2	159
4	Involvement of the cohesin Rad21 and SCP3 in monopolar attachment of sister kinetochores during mouse meiosis I. Journal of Cell Science, 2004, 117, 1221-1234.	2.0	149
5	Evidence for wheat-rye nucleolar competition (amphiplasty) in triticale by silver-staining procedure. Theoretical and Applied Genetics, 1984, 67, 207-213.	3.6	134
6	Squash procedure for protein immunolocalization in meiotic cells. Chromosome Research, 1998, 6, 639-642.	2.2	123
7	Absence of <scp>SUN</scp>1 and <scp>SUN</scp>2 proteins in ArabidopsisÂthaliana leads to a delay in meiotic progression and defects in synapsis and recombination. Plant Journal, 2015, 81, 329-346.	5.7	77
8	Evolution of a complex B-chromosome polymorphism in the grasshopper Eyprepocnemis plorans. Chromosoma, 1984, 89, 290-293.	2.2	76
9	Nucleolar organizer activity in wheat, rye and derivatives analyzed by a silver-staining procedure. Chromosoma, 1984, 89, 370-376.	2.2	67
10	Generating high variability of B chromosomes in Eyprepocnemis plorans (grasshopper). Heredity, 1993, 71, 352-362.	2.6	62
11	On the role of some ARGONAUTE proteins in meiosis and DNA repair in Arabidopsis thaliana. Frontiers in Plant Science, 2014, 5, 177.	3.6	60
12	A Puromycin-Sensitive Aminopeptidase Is Essential for Meiosis inArabidopsis thalianaÂ[W]. Plant Cell, 2004, 16, 2895-2909.	6.6	59
13	The effect of C-heterochromatin in chiasma terminalisation in Chorthippus biguttulus L. (Acrididae,) Tj ETQq1 1 0.784314 rgBT /Overl	2.2	53
14	Chromosome C-banding patterns in Spanish Acridoidea. Genetica, 1983, 61, 65-74.	1.1	53
15	Together yes, but not coupled: new insights into the roles of RAD51 and DMC1 in plant meiotic recombination. Plant Journal, 2012, 69, 921-933.	5.7	52
16	On the role of AtDMC1, AtRAD51 and its paralogs during Arabidopsis meiosis. Frontiers in Plant Science, 2014, 5, 23.	3.6	45
17	Sex chromosomes, synapsis, and cohesins: a complex affair. Chromosoma, 2006, 115, 250-259.	2.2	42
18	Involvement of the Cohesin Cofactor PDS5 (SPO76) During Meiosis and DNA Repair in Arabidopsis thaliana. Frontiers in Plant Science, 2015, 6, 1034.	3.6	42

#	Article	IF	Citations
19	Nucleolar activity and competition (Amphiplasty) in the genus Aegilops. Heredity, 1984, 53, 603-611.	2.6	41
20	DNA doubleâ€strand breaks, recombination and synapsis: the timing of meiosis differs in grasshoppers and flies. EMBO Reports, 2004, 5, 385-391.	4.5	39
21	The evolution of sex chromosomes in the genus Rumex (Polygonaceae): Identification of a new species with heteromorphic sex chromosomes. Chromosome Research, 2007, 15, 825-833.	2.2	37
22	Meiosis in haploid rye: extensive synapsis and low chiasma frequency. Heredity, 1994, 73, 580-588.	2.6	34
23	Looking for natural variation in chiasma frequency in Arabidopsis thaliana. Journal of Experimental Botany, 2012, 63, 887-894.	4.8	33
24	Meiotic sister chromatid cohesion in holocentric sex chromosomes of three heteropteran species is maintained in absence of axial elements. Chromosoma, 2000, 109, 35-43.	2.2	31
25	DNA double-strand breaks and homology search: inferences from a species with incomplete pairing and synapsis. Journal of Cell Science, 2005, 118, 2957-2963.	2.0	31
26	Accurate Chromosome Segregation at First Meiotic Division Requires AGO4, a Protein Involved in RNA-Dependent DNA Methylation inArabidopsis thaliana. Genetics, 2016, 204, 543-553.	2.9	31
27	An Analysis of Univalent Segregation in Meiotic Mutants ofArabidopsis thaliana: A Possible Role for Synaptonemal Complex. Genetics, 2007, 175, 505-511.	2.9	30
28	Chiasma interference and centromere co-orientation in a spontaneous translocation heterozygote of Euchorthippus pulvinatus gallicus (Acrididae; Orthoptera). Chromosoma, 1980, 78, 327-340.	2.2	29
29	Pairing and synapsis in wild type Arabidopsis thaliana. Chromosome Research, 2008, 16, 701-708.	2.2	27
30	B-chromosome polymorphism and interchromosomal chiasma interference in Eyprepocnemis plorans (Acrididae; Orthoptera). Chromosoma, 1982, 85, 349-359.	2.2	26
31	Loss of function of Arabidopsis microRNA-machinery genes impairs fertility, and has effects on homologous recombination and meiotic chromatin dynamics. Scientific Reports, 2017, 7, 9280.	3.3	26
32	Synaptic patterns of rye B chromosomes. IV. The B isochromosomes. Heredity, 1995, 74, 100-107.	2.6	25
33	Sex-dependent synaptic behaviour in triploid turbot, Scophthalmus maximus (Pisces, Scophthalmidae). Heredity, 2002, 89, 460-464.	2.6	25
34	Cytological evidence for preferences of identical over homologous but not-identical meiotic pairing. Chromosoma, 1981, 82, 447-451.	2.2	24
35	Synaptic patterns of rye B chromosomes. I: The standard type. Chromosome Research, 1993, 1, 145-152.	2.2	24
36	C-heterochromatin polymorphism and variation in chiasma localization in Euchorthippus pulvinatus gallicus (Acrididae, Orthoptera). Chromosoma, 1982, 85, 507-518.	2.2	23

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37	Sequential Loading of Cohesin Subunits during the First Meiotic Prophase of Grasshoppers. PLoS Genetics, 2007, 3, e28.	3.5	23
38	Chiasma frequencies and distributions in gomphocerine grasshoppers: a comparative study between sexes. Heredity, 1990, 64, 17-23.	2.6	22
39	Further insights on chromosomal pairing of autopolyploids: a triploid and tetraploids of rye. Chromosoma, 1995, 104, 298-307.	2.2	22
40	Spreading Synaptonemal Complexes from the Grasshopper Chorthippus Jacobsi: Pachytene and Zygotene Observations. Hereditas, 0, 118, 235-241.	1.4	22
41	Spontaneous translocations between B chromosomes and the normal complement in the grasshopper Eyprepocnemis plorans. Chromosoma, 1983, 88, 145-148.	2.2	21
42	Cytological basis of the B chromosome accumulation mechanism in the grasshopper Heteracris littoralis (Ramb). Heredity, 1989, 62, 91-95.	2.6	21
43	N-bands and nucleolus expression in Schistocerca gregaria and Locusta migratoria. Heredity, 1985, 54, 333-341.	2.6	20
44	Sex differences in chiasma frequency and distribution in natural populations of Eyprepocnemis plorans containing B-chromosomes. Heredity, 1987, 59, 237-243.	2.6	20
45	Relationship between incomplete synapsis and chiasma localization. Chromosoma, 2009, 118, 377-389.	2.2	20
46	Analysis of the Relationships between DNA Double-Strand Breaks, Synaptonemal Complex and Crossovers Using the Atfas1-4 Mutant. PLoS Genetics, 2015, 11, e1005301.	3.5	20
47	X and B chromosomes display similar meiotic characteristics in male grasshoppers. Cytogenetic and Genome Research, 2004, 106, 302-308.	1.1	19
48	Synaptic patterns of rye B chromosomes. II. The effect of the standard B chromosomes on the pairing of the A set. Theoretical and Applied Genetics, 1993, 87, 17-21.	3.6	18
49	The template choice decision in meiosis: is the sister important?. Chromosoma, 2011, 120, 447-454.	2.2	18
50	The Absence of the Arabidopsis Chaperone Complex CAF-1 Produces Mitotic Chromosome Abnormalities and Changes in the Expression Profiles of Genes Involved in DNA Repair. Frontiers in Plant Science, 2017, 8, 525.	3.6	18
51	Genotype-dependent effect of B-chromosomes on chiasma frequency in Eyprepocnemis plorans (Acrididae: Orthoptera). Genetica, 1982, 59, 223-227.	1.1	17
52	Nucleolar organiser activity in wheat-barley chromosome addition lines. Heredity, 1984, 52, 425-429.	2.6	17
53	Analysis of nucleolar activity in Agropyron elongatum, its amphiploid with Triticum aestivum and the chromosome addition lines. Theoretical and Applied Genetics, 1984, 68-68, 75-80.	3.6	17
54	Dynamic relocation of telomere complexes in mouse meiotic chromosomes. Chromosome Research, 2003, 11, 797-807.	2.2	17

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55	Synaptic patterns of rye B chromosomes. III. The deficient B. Chromosome Research, 1994, 2, 93-98.	2.2	16
56	Meiotic Behaviour of B Chromosomes in the Grasshopper Omocestus burri: A Case of Drive in Females. Hereditas, 2004, 118, 139-143.	1.4	16
57	The controversial telomeres of lily plants. Cytogenetic and Genome Research, 2005, 109, 144-147.	1.1	16
58	A Method for Fluorescencein SituHybridization against Synaptonemal Complex-Associated Chromatin of Plant Meiocytes. Experimental Cell Research, 1998, 239, 179-182.	2.6	14
59	Organization of repetitive DNA sequences at pachytene chromosomes of gilthead seabream Sparus aurata (Pisces, Perciformes). Chromosome Research, 2000, 8, 67-72.	2.2	14
60	On the diploidization mechanism of the genus Aegilops: meiotic behaviour of interspecific hybrids. Theoretical and Applied Genetics, 1999, 99, 1080-1086.	3.6	12
61	Synaptonemal complex analysis in oocytes and spermatocytes of threespine stickleback Gasterosteus aculeatus (Teleostei, Gasterosteidae). Genetica, 2002, 114, 53-56.	1.1	12
62	Meiotic effects of Robertsonian translocations in tuco-tucos of theCtenomys perrensisuperspecies (Rodentia: Ctenomyidae). Caryologia, 2007, 60, 233-244.	0.3	12
63	Chiasma localization and incomplete synapsis in two species of Tetrigidae (Orthoptera). Chromosome Research, 1997, 5, 69-71.	2.2	11
64	Interference relationships in grasshopper reciprocal translocation heterozygotes. Heredity, 1987, 59, 85-93.	2.6	10
65	Cohesin axis maturation and presence of RAD51 during first meiotic prophase in a true bug. Chromosoma, 2009, 118, 575-589.	2.2	10
66	Centromere co-orientation in a spontaneous translocation heterozygote of Euchorthippus pulvinatus gallicus (Acrididae, Orthoptera). Genetica, 1982, 58, 81-84.	1.1	9
67	Sex-dependent meiotic behaviour of B chromosomes in the grasshopper Eyprepocnemis plorans. Heredity, 1989, 62, 217-221.	2.6	9
68	The relationship between synapsis and chiasma distribution in grasshopper bivalents heterozygous for supernumerary segments. Heredity, 1993, 70, 135-141.	2.6	9
69	Synaptic behaviour and morphological modifications of the X and Y chromosomes during pachytene in three species of Ctenomys (Rodentia, Caviomorpha, Ctenomyidae). Genome, 2002, 45, 1110-1115.	2.0	8
70	Chiasma frequency and distribution in the presence and absence of supernumerary chromosome segments in the grasshopper, euchorthippus pulvinatus gallicus. Heredity, 1984, 53, 101-106.	2.6	7
71	The relationship between chiasma frequency and bivalent length: Effects of genotype and supernumerary chromosomes. Heredity, 1986, 56, 305-310.	2.6	7
72	Orientation behaviour of interchanges forming chiasmata in interstitial regions: A cytological approach. Heredity, 1987, 58, 15-24.	2.6	7

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73	Synaptonemal complex analysis of the X1X2Y trivalent in Mantis religiosa L. males: inferences on the origin and maintenance of the sex-determining mechanism. Chromosome Research, 1998, 6, 5-11.	2.2	7
74	Incomplete Synapsis and Chiasma Localization: The Chicken or the Egg?. Cytogenetic and Genome Research, 2010, 128, 139-151.	1.1	7
75	A quantitative study of chiasma terminalization in the grasshopper Chorthippus jucundus. Heredity, 1989, 62, 51-57.	2.6	6
76	Meiosis in primary trisomics of rye: considerations for models of chromosome pairing. Chromosome Research, 2001, 9, 13-23.	2.2	6
77	Dynamics of cohesin subunits in grasshopper meiotic divisions. Chromosoma, 2013, 122, 77-91.	2.2	6
78	Primary and secondary nucleolar organiser regions during spermatogenesis in the genus Pycnogaster. Heredity, 1988, 60, 197-204.	2.6	5
79	Evidence of a joint control of chiasma formation in spermatocytes and oocytes of a grasshopper. Heredity, 1990, 65, 419-422.	2.6	5
80	Latent NORs in the species Pycnogaster cucullata (Orthoptera). Heredity, 1990, 65, 7-10.	2.6	5
81	Understanding the cytological diploidization mechanism of polyploid wild wheats. Cytogenetic and Genome Research, 2005, 109, 205-209.	1.1	5
82	Meiosis inStethophyma(Mecostethus)Grossum(Orthoptera: Acrididae): An Exciting History. Journal of Orthoptera Research, 2010, 19, 267-273.	1.0	5
83	The effect of supernumerary segments on recombination in Euchorthippus pulvinatus (grasshopper): a comparative study between sexes and populations. Heredity, 1993, 70, 130-134.	2.6	4
84	X Chromosome Inactivation during Grasshopper Spermatogenesis. Genes, 2021, 12, 1844.	2.4	4
85	Synaptonemal complex analysis in spermatocytes and oocytes of turbot, Scophthalmus maximus (Pisces, Scophthalmidae). Genome, 2001, 44, 1143-1147.	2.0	3
86	Do Exogenous DNA Double-Strand Breaks Change Incomplete Synapsis and Chiasma Localization in the Grasshopper Stethophyma grossum?. PLoS ONE, 2016, 11, e0168499.	2.5	3
87	Organization of highly repeated sequences in surface-spread pachytene chromosomes of rye. Genome, 2000, 43, 945-948.	2.0	2
88	Differential meiotic behaviour of diploid and tetraploid cells in a partially asynaptic mutant. Chromosoma, 1990, 99, 231-236.	2.2	1
89	Searching for telomeric sequences in two Allium species. Genome, 2001, 44, 640-643.	2.0	1