

Laura Sanchez

List of Publications by Year in descending order

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119
papers

3,190
citations

136950

32
h-index

206112

48
g-index

124
all docs

124
docs citations

124
times ranked

3357
citing authors

#	ARTICLE	IF	CITATIONS
1	Genetic architecture of sex determination in fish: applications to sex ratio control in aquaculture. <i>Frontiers in Genetics</i> , 2014, 5, 340.	2.3	139
2	Identification of the Major Sex-Determining Region of Turbot (<i>Scophthalmus maximus</i>). <i>Genetics</i> , 2009, 183, 1443-1452.	2.9	109
3	Analysis of qPCR reference gene stability determination methods and a practical approach for efficiency calculation on a turbot (<i>Scophthalmus maximus</i>) gonad dataset. <i>BMC Genomics</i> , 2014, 15, 648.	2.8	105
4	A Microsatellite Genetic Map of the Turbot (<i>Scophthalmus maximus</i>). <i>Genetics</i> , 2007, 177, 2457-2467.	2.9	93
5	Cell senescence contributes to tissue regeneration in zebrafish. <i>Aging Cell</i> , 2020, 19, e13052.	6.7	77
6	Exploiting oxidative phosphorylation to promote the stem and immunoevasive properties of pancreatic cancer stem cells. <i>Nature Communications</i> , 2020, 11, 5265.	12.8	73
7	Localization of the repetitive telomeric sequence (TTAGGG) _n in four salmonid species. <i>Genome</i> , 1996, 39, 1035-1038.	2.0	71
8	Genetic structure of brown trout, <i>Salmo trutta</i> L., at the southern limit of the distribution range of the anadromous form. <i>Molecular Ecology</i> , 1999, 8, 1991-2001.	3.9	70
9	Cell senescence is an antiviral defense mechanism. <i>Scientific Reports</i> , 2016, 6, 37007.	3.3	70
10	Differential stocking incidence in brown trout (<i>Salmo trutta</i>) populations from Northwestern Spain. <i>Aquaculture</i> , 1993, 114, 203-216.	3.5	69
11	Induction of triploidy in the turbot (<i>Scophthalmus maximus</i>). <i>Aquaculture</i> , 2000, 188, 79-90.	3.5	68
12	Potential sources of error in parentage assessment of turbot (<i>Scophthalmus maximus</i>) using microsatellite loci. <i>Aquaculture</i> , 2004, 242, 119-135.	3.5	63
13	Phylogenetic analysis of flatfish (Order Pleuronectiformes) based on mitochondrial 16s rDNA sequences. <i>Scientia Marina</i> , 2005, 69, 531-543.	0.6	62
14	Allozyme and microsatellite diversity in natural and domestic populations of turbot (<i>Scophthalmus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Sciences, 2002, 59, 1460-1473.	1.4	60
15	Karyotypic characterization of turbot (<i>Scophthalmus maximus</i>) with conventional, fluorochrome and restriction endonuclease-banding techniques. <i>Marine Biology</i> , 1994, 120, 609-613.	1.5	59
16	Breast cancer metastasis to liver and lung is facilitated by Pit-1-CXCL12-CXCR4 axis. <i>Oncogene</i> , 2018, 37, 1430-1444.	5.9	58
17	Cytogenetical characterization of hatchery stocks and natural populations of Sea and Brown Trout from northwestern Spain. <i>Heredity</i> , 1991, 66, 9-17.	2.6	57
18	Gene expression analysis at the onset of sex differentiation in turbot (<i>Scophthalmus maximus</i>). <i>BMC Genomics</i> , 2015, 16, 973.	2.8	54

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19	Analysis of the structure and variability of nucleolar organizer regions of <i>Salmo trutta</i> by C-, Ag-, and restriction endonuclease banding. <i>Cytogenetic and Genome Research</i> , 1990, 54, 6-9.	1.1	52
20	Population analysis of an unusual NOR-site polymorphism in brown trout (<i>Salmo trutta</i> L.). <i>Heredity</i> , 2001, 86, 291-302.	2.6	50
21	A microsatellite marker tool for parentage analysis in Senegal sole (<i>Solea senegalensis</i>): Genotyping errors, null alleles and conformance to theoretical assumptions. <i>Aquaculture</i> , 2006, 261, 1194-1203.	3.5	45
22	Heteroleptic mononuclear compounds of ruthenium(II): synthesis, structural analyses, in vitro antitumor activity and in vivo toxicity on zebrafish embryos. <i>Dalton Transactions</i> , 2016, 45, 19127-19140.	3.3	45
23	Improving zebrafish embryo xenotransplantation conditions by increasing incubation temperature and establishing a proliferation index with ZFtool. <i>BMC Cancer</i> , 2018, 18, 3.	2.6	44
24	Gene diversity analysis in natural populations and cultured stocks of turbot (<i>Scophthalmus maximus</i>) Tj ETQq0 0 0,rgBT /Overlock 10 T	1.7	41
25	Characterization of an atypical NOR site polymorphism in brown trout (<i>Salmo trutta</i>) with Ag- and CMA3-staining, and fluorescent in situ hybridization. <i>Cytogenetic and Genome Research</i> , 1996, 75, 234-239.	1.1	40
26	A sex-associated sequence identified by RAPD screening in gynogenetic individuals of turbot (<i>Scophthalmus maximus</i>). <i>Molecular Biology Reports</i> , 2014, 41, 1501-1509.	2.3	40
27	Dinuclear Ru(II)(bipy) ₂ Derivatives: Structural, Biological, and in Vivo Zebrafish Toxicity Evaluation. <i>Inorganic Chemistry</i> , 2017, 56, 7127-7144.	4.0	40
28	Low stocking incidence in brown trout populations from northwestern Spain monitored by LDH-5* diagnostic marker. <i>Journal of Fish Biology</i> , 1995, 47, 170-176.	1.6	37
29	Gomesin inhibits melanoma growth by manipulating key signaling cascades that control cell death and proliferation. <i>Scientific Reports</i> , 2018, 8, 11519.	3.3	37
30	Localization of ribosomal genes in Pleuronectiformes using Ag-, CMA3-banding and in situ hybridization. <i>Heredity</i> , 2001, 86, 531-536.	2.6	36
31	A microsatellite marker tool for parentage assessment in gilthead seabream (<i>Sparus aurata</i>). <i>Aquaculture</i> , 2007, 272, S210-S216.	3.5	35
32	First description of a natural infection with spleen and kidney necrosis virus in zebrafish. <i>Journal of Fish Diseases</i> , 2018, 41, 1283-1294.	1.9	34
33	Marine guanidine alkaloids crambescidins inhibit tumor growth and activate intrinsic apoptotic signaling inducing tumor regression in a colorectal carcinoma zebrafish xenograft model. <i>Oncotarget</i> , 2016, 7, 83071-83087.	1.8	34
34	Quantitative analysis of the variability of nucleolar organizer regions in <i>Salmo trutta</i> . <i>Genome</i> , 1993, 36, 1119-1123.	2.0	32
35	Gynogenesis Assessment Using Microsatellite Genetic Markers in Turbot (<i>Scophthalmus maximus</i>). <i>Marine Biotechnology</i> , 2003, 5, 584-592.	2.4	31
36	CTCs-derived xenograft development in a triple negative breast cancer case. <i>International Journal of Cancer</i> , 2019, 144, 2254-2265.	5.1	31

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37	The development of cell senescence. <i>Experimental Gerontology</i> , 2019, 128, 110742.	2.8	31
38	Inhibition of Mitochondrial Dynamics Preferentially Targets Pancreatic Cancer Cells with Enhanced Tumorigenic and Invasive Potential. <i>Cancers</i> , 2021, 13, 698.	3.7	31
39	The size and composition of polymeric nanocapsules dictate their interaction with macrophages and biodistribution in zebrafish. <i>Journal of Controlled Release</i> , 2019, 308, 98-108.	9.9	30
40	Allozymic evidence of parapatric differentiation of brown trout (<i>Salmo trutta</i> L.) within an Atlantic river basin of the Iberian Peninsula. <i>Molecular Ecology</i> , 2001, 10, 1455-1469.	3.9	29
41	The multifaceted roles of gasdermins in cancer biology and oncologic therapies. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2021, 1876, 188635.	7.4	29
42	Assessment of the permeability and toxicity of polymeric nanocapsules using the zebrafish model. <i>Nanomedicine</i> , 2017, 12, 2069-2082.	3.3	28
43	The Potential of Zebrafish as a Model Organism for Improving the Translation of Genetic Anticancer Nanomedicines. <i>Genes</i> , 2017, 8, 349.	2.4	27
44	Modeling Cancer Using Zebrafish Xenografts: Drawbacks for Mimicking the Human Microenvironment. <i>Cells</i> , 2020, 9, 1978.	4.1	27
45	Acetaminophen affects the survivor, pigmentation and development of craniofacial structures in zebrafish (<i>Danio rerio</i>) embryos. <i>Biochemical Pharmacology</i> , 2020, 174, 113816.	4.4	27
46	POU1F1 transcription factor promotes breast cancer metastasis via recruitment and polarization of macrophages. <i>Journal of Pathology</i> , 2019, 249, 381-394.	4.5	26
47	Sex-dependent synaptic behaviour in triploid turbot, <i>Scophthalmus maximus</i> (Pisces, Scophthalmidae). <i>Heredity</i> , 2002, 89, 460-464.	2.6	25
48	Circulating Tumor Cells Characterization Revealed TIMP1 as a Potential Therapeutic Target in Ovarian Cancer. <i>Cells</i> , 2020, 9, 1218.	4.1	25
49	Dysregulated splicing factor SF3B1 unveils a dual therapeutic vulnerability to target pancreatic cancer cells and cancer stem cells with an anti-splicing drug. <i>Journal of Experimental and Clinical Cancer Research</i> , 2021, 40, 382.	8.6	25
50	Localization of rDNA genes in European eel (<i>Anguilla anguilla</i>) by FISH. <i>Genome</i> , 1996, 39, 1220-1223.	2.0	24
51	A population analysis of the structure and variability of NOR in <i>Salmo trutta</i> by Ag, CMA3 and ISH. <i>Genetica</i> , 2000, 108, 113-118.	1.1	24
52	Ribosomal genes in Coregonid fishes (<i>Coregonus lavaretus</i> , <i>C. albula</i> and <i>C. peled</i>) (Salmonidae): single and multiple nucleolus organizer regions. <i>Heredity</i> , 2001, 87, 672-679.	2.6	24
53	Synaptonemal complex analysis in spermatocytes and oocytes of turbot, <i>Scophthalmus maximus</i> (Pisces, Scophthalmidae). <i>Genome</i> , 2001, 44, 1143-1147.	2.0	23
54	Diversity in isochore structure among cold-blooded vertebrates based on GC content of coding and non-coding sequences. <i>Genetica</i> , 2007, 129, 281-289.	1.1	23

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55	Berenil-induced undercondensation in human heterochromatin. <i>Cytogenetic and Genome Research</i> , 1989, 50, 27-33.	1.1	22
56	Cytogenetic characterization of the AS cell line derived from the Atlantic salmon (<i>Salmo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7	1.1	22
57	A set of highly polymorphic microsatellites useful for kinship and population analysis in turbot (<i>Scophthalmus maximus</i> L.). <i>Aquaculture Research</i> , 2006, 37, 1578-1582.	1.8	22
58	Chromosomal heterochromatin differentiation in <i>Salmo trutta</i> with restriction enzymes. <i>Heredity</i> , 1991, 66, 241-249.	2.6	21
59	A population analysis of Robertsonian and Ag-NOR polymorphisms in brown trout (<i>Salmo trutta</i>). <i>Theoretical and Applied Genetics</i> , 1994, 89, 105-111.	3.6	19
60	A NOR-associated repetitive element present in the genome of two <i>Salmo</i> species (<i>salmo</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7	2.0	19
61	Analysis of a secondary contact between divergent lineages of brown trout <i>Salmo trutta</i> L. from Duero basin using microsatellites and mtDNA RFLPs. <i>Journal of Fish Biology</i> , 2007, 71, 195-213.	1.6	19
62	Glycosylated Cellâ€Penetrating Peptides (GCPPs). <i>ChemBioChem</i> , 2019, 20, 1400-1409.	2.6	19
63	Induction of G-bands on <i>Anguilla anguilla</i> chromosomes by the restriction endonucleases <i>HaeIII</i> , <i>Hinf</i> and <i>Mse</i>. <i>Cytogenetic and Genome Research</i> , 1994, 65, 79-81.	1.1	18
64	Experimental Models to Study Autism Spectrum Disorders: hiPSCs, Rodents and Zebrafish. <i>Genes</i> , 2020, 11, 1376.	2.4	18
65	Molecular analysis of a NOR site polymorphism in brown trout (<i>Salmo trutta</i>): organization of rDNA intergenic spacers. <i>Genome</i> , 1997, 40, 916-922.	2.0	17
66	Looking for a Better Characterization of Triple-Negative Breast Cancer by Means of Circulating Tumor Cells. <i>Journal of Clinical Medicine</i> , 2020, 9, 353.	2.4	17
67	Chromosomal characteristics of rDNA in European grayling <i>Thymallus thymallus</i> (Salmonidae). <i>Genetica</i> , 2003, 119, 219-224.	1.1	16
68	Susceptibility of Zebrafish to Vesicular Stomatitis Virus Infection. <i>Zebrafish</i> , 2018, 15, 124-132.	1.1	16
69	Cellular and Molecular Mechanisms Underlying Glioblastoma and Zebrafish Models for the Discovery of New Treatments. <i>Cancers</i> , 2021, 13, 1087.	3.7	16
70	Edelfosine nanoemulsions inhibit tumor growth of triple negative breast cancer in zebrafish xenograft model. <i>Scientific Reports</i> , 2021, 11, 9873.	3.3	16
71	New microsatellite markers in turbot (<i>Scophthalmus maximus</i>) derived from an enriched genomic library and sequence databases. <i>Molecular Ecology Notes</i> , 2005, 5, 62-64.	1.7	15
72	Zebrafish Models for the Safety and Therapeutic Testing of Nanoparticles with a Focus on Macrophages. <i>Nanomaterials</i> , 2021, 11, 1784.	4.1	15

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73	Characterization of a New HpaI Centromeric Satellite DNA in <i>Salmo salar</i> . <i>Genetica</i> , 2004, 121, 81-87.	1.1	14
74	Serotonin inhibits axonal regeneration of identifiable descending neurons after a complete spinal cord injury in lampreys. <i>DMM Disease Models and Mechanisms</i> , 2019, 12, .	2.4	14
75	Dissecting Breast Cancer Circulating Tumor Cells Competence via Modelling Metastasis in Zebrafish. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9279.	4.1	14
76	Sex-associated DNA markers from turbot. <i>Marine Biology Research</i> , 2011, 7, 378-387.	0.7	13
77	Inhibition of Gamma-Secretase Promotes Axon Regeneration After a Complete Spinal Cord Injury. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 173.	3.7	13
78	Brief communication. Analysis of the inheritance of NOR size variants in brown trout (<i>Salmo trutta</i>). <i>Journal of Heredity</i> , 1998, 89, 264-266.	2.4	12
79	Localization of 5S rRNA loci in three coregonid species (Salmonidae). <i>Genetica</i> , 2003, 119, 183-186.	1.1	12
80	Screening of repetitive motifs inside the genome of the flat oyster (<i>Ostrea edulis</i>): Transposable elements and short tandem repeats. <i>Marine Genomics</i> , 2015, 24, 335-341.	1.1	12
81	Developmentally-programmed cellular senescence is conserved and widespread in zebrafish. <i>Aging</i> , 2020, 12, 17895-17901.	3.1	12
82	Analysis of centromere size in human chromosomes 1, 9, 15, and 16 by electron microscopy. <i>Genome</i> , 1991, 34, 710-713.	2.0	11
83	In vivo toxicity assays in zebrafish embryos: a pre-requisite for xenograft preclinical studies. <i>Toxicology Mechanisms and Methods</i> , 2019, 29, 478-487.	2.7	11
84	Loss of Active Neurogenesis in the Adult Shark Retina. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 628721.	3.7	11
85	â€œA Zebra in the Waterâ€ Inspiring Science in Spain. <i>Zebrafish</i> , 2016, 13, 241-247.	1.1	10
86	Zebrafish Models of Autosomal Dominant Ataxias. <i>Cells</i> , 2021, 10, 421.	4.1	10
87	Restriction endonuclease/nick translation procedure on fixed chromosomes of the Atlantic salmon fish cell line. <i>Chromosome Research</i> , 1995, 3, 379-385.	2.2	9
88	Recombination Analysis of the Human Minisatellite Msh42 Suggests the Existence of Two Distinct Pathways for Initiation and Resolution of Recombination at Msh42 in Rat Testes Nuclear Extractsâ€. <i>Biochemistry</i> , 2002, 41, 2166-2176.	2.5	9
89	Lightâ€Controlled Cellular Internalization and Cytotoxicity of Nucleic Acidâ€Binding Agents: Studies in Vitro and in Zebrafish Embryos. <i>ChemBioChem</i> , 2016, 17, 37-41.	2.6	9
90	rRNA genes map to chromosomes 10, 11 and 12 in European whitefish (<i>Coregonus lavaretus</i>) and to chromosomes 1, 5, 9 and 10 in vendace (<i>Coregonus albula</i>). <i>Chromosome Research</i> , 2000, 8, 455-455.	2.2	8

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91	A comprehensive structural, lectin and immunohistochemical characterization of the zebrafish olfactory system. <i>Scientific Reports</i> , 2021, 11, 8865.	3.3	8
92	A new EcoRI family of satellite DNA in lampreys. <i>FEBS Letters</i> , 1996, 394, 187-190.	2.8	7
93	Danio Rerio as Model Organism for Adenoviral Vector Evaluation. <i>Genes</i> , 2019, 10, 1053.	2.4	7
94	Triazole-Based Half-Sandwich Ruthenium(II) Compounds: From <i>In Vitro</i> Antiproliferative Potential to <i>In Vivo</i> Toxicity Evaluation. <i>Inorganic Chemistry</i> , 2021, 60, 8011-8026.	4.0	7
95	Chromosomal evolution in salmonids: a comparison of Atlantic salmon, brown trout, and rainbow trout R-band chromosomes. <i>Genetica</i> , 1996, 98, 297-302.	1.1	6
96	Prothymosin $\hat{\pm}$, a mammalian c-myc-regulated acidic nuclear protein, provokes the decondensation of human chromosomes <i>in vitro</i> . <i>Cytogenetic and Genome Research</i> , 2001, 93, 171-174.	1.1	6
97	Zebrafish Models of Autosomal Recessive Ataxias. <i>Cells</i> , 2021, 10, 836.	4.1	6
98	What Zebrafish and Nanotechnology Can Offer for Cancer Treatments in the Age of Personalized Medicine. <i>Cancers</i> , 2022, 14, 2238.	3.7	6
99	rDNA RFLPs as genetic markers for resource management in brown trout. <i>Journal of Fish Biology</i> , 1999, 55, 221-225.	1.6	5
100	Conservation of Zebrafish MicroRNA-145 and Its Role during Neural Crest Cell Development. <i>Genes</i> , 2021, 12, 1023.	2.4	5
101	N-Heterocyclic Carbene Iron Complexes as Anticancer Agents: <i>In Vitro</i> and <i>In Vivo</i> Biological Studies. <i>Molecules</i> , 2021, 26, 5535.	3.8	5
102	Decline in Constitutive Proliferative Activity in the Zebrafish Retina with Ageing. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11715.	4.1	5
103	Replication banding in the chromosomes of the European eel (<i>Anguilla anguilla</i>). <i>Genetica</i> , 1996, 98, 107-110.	1.1	4
104	Brown trout 5S rDNA maps to chromosome 38. <i>Chromosome Research</i> , 2000, 8, 657-657.	2.2	4
105	Morphological Abnormalities and Gene Expression Changes Caused by High Incubation Temperatures in Zebrafish Xenografts with Human Cancer Cells. <i>Genes</i> , 2021, 12, 113.	2.4	4
106	Manganese(I) tricarbonyl complexes as potential anticancer agents. <i>Journal of Biological Inorganic Chemistry</i> , 2022, 27, 49-64.	2.6	4
107	Characterization of microsatellite markers derived from sequence databases for the European flounder (<i>Platichthys flesus</i>). <i>Molecular Ecology Notes</i> , 2005, 5, 664-665.	1.7	3
108	The hemoglobin Gly161 $\hat{\pm}$ 1Asp polymorphism in turbot (<i>Scophthalmus maximus</i>) is differentially distributed across European populations. <i>Fish Physiology and Biochemistry</i> , 2020, 46, 2367-2376.	2.3	3

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109	Evaluation of the In Vitro and In Vivo Efficacy of Ruthenium Polypyridyl Compounds against Breast Cancer. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8916.	4.1	3
110	ZFTool: A Software for Automatic Quantification of Cancer Cell Mass Evolution in Zebrafish. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7721.	2.5	3
111	Synaptonemal complex analysis in spermatocytes and oocytes of turbot, <i>Scophthalmus maximus</i> (Pisces, Scophthalmidae). <i>Genome</i> , 2001, 44, 1143-1147.	2.0	3
112	High Resolution Techniques for Study of Human Centromeric Heterochromatin. <i>Biotechnic & Histochemistry</i> , 1989, 64, 169-174.	0.4	2
113	G-like banding pattern in two salmonid species: <i>Oncorhynchus mykiss</i> and <i>Oncorhynchus kisutch</i> . <i>Chromosome Research</i> , 1996, 4, 471-473.	2.2	2
114	Chromosomal analysis of two established salmonid cell lines: CHSE-214 (<i>Oncorhynchus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 547 Td (t Animal, 1997, 33, 662-664.	1.5	2
115	Analysis of European eel (<i>Anguilla anguilla</i>) chromosomes after treatment with Tfil and Aval restriction endonucleases. <i>Journal of Applied Ichthyology</i> , 1998, 14, 113-115.	0.7	2
116	Novel microsatellites from the European plaice (<i>Pleuronectes platessa</i>) identification by data mining and cross-species amplification in other flatfishes. <i>Conservation Genetics</i> , 2009, 10, 1565-1568.	1.5	1
117	Ploidy in Acipenseriformes: Cytogenetic and Molecular Approaches. , 2007, , 405-420.		1
118	Embryonic nutritional hyperglycemia decreases cell proliferation in the zebrafish retina. <i>Histochemistry and Cell Biology</i> , 2022, 158, 401-409.	1.7	1
119	Differential digestion of the centromeric heterochromatic regions of the 5-azacytidine-decondensed human chromosomes 1, 9, 15, and 16 by NdeI and Sau3AI restriction endonucleases. <i>Genetica</i> , 1995, 96, 235-238.	1.1	0