Frederic J De Sauvage

List of Publications by Year
in descending order

142	38,398	3531	11052
papers	citations	90 h-index	137 g-index

146	146	146	45986
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Frequency and Genomic Aspects of Intrinsic Resistance to Vismodegib in Locally Advanced Basal Cell Carcinoma. Clinical Cancer Research, 2022, 28, 1422-1432.	7.0	6
2	Tissue regeneration: Reserve or reverse?. Science, 2021, 371, 784-786.	12.6	46
3	Gremlin 1+ fibroblastic niche maintains dendritic cell homeostasis in lymphoid tissues. Nature Immunology, 2021, 22, 571-585.	14.5	44
4	IL-1R1â€“dependent signaling coordinates epithelial regeneration in response to intestinal damage. Science Immunology, 2021, 6, .	11.9	31
5	The great escape: tumour cell plasticity in resistance to targeted therapy. Nature Reviews Drug Discovery, 2020, 19, 39-56.	46.4	439
6	Distinct Mesenchymal Cell Populations Generate the Essential Intestinal BMP Signaling Gradient. Cell Stem Cell, 2020, 26, 391-402.e5.	11.1	211
7	Lgr5+Âtelocytes are a signaling source at the intestinal villus tip. Nature Communications, 2020, 11, 1936.	12.8	105
8	Modeling Colorectal Cancer Progression Through Orthotopic Implantation of Organoids. Methods in Molecular Biology, 2020, 2171, 331-346.	0.9	5
9	Atoh1 ⁺ secretory progenitors possess renewal capacity independent of Lgr5 ⁺ cells during colonic regeneration. EMBO Journal, 2019, 38, .	7.8	56
10	A Clinically Applicable Gene-Expression Classifier Reveals Intrinsic and Extrinsic Contributions to Consensus Molecular Subtypes in Primary and Metastatic Colon Cancer. Clinical Cancer Research, 2019, 25, 4431-4442.	7.0	40
11	Cellular Plasticity in Intestinal Homeostasis and Disease. Cell Stem Cell, 2019, 24, 54-64.	11.1	118
12	NRG1 is a critical regulator of differentiation in TP63-driven squamous cell carcinoma. ELife, 2019, 8, .	6.0	9
13	A selective peptide inhibitor of Frizzled 7 receptors disrupts intestinal stem cells. Nature Chemical Biology, 2018, 14, 582-590.	8.0	50
14	Grking the Smoothened signal. Science Signaling, 2018, 11, .	3.6	4
15	A cell identity switch allows residual BCC to survive Hedgehog pathway inhibition. Nature, 2018, 562, 429-433.	27.8	105
16	Subtle Changes in the Levels of BCL-2 Proteins Cause Severe Craniofacial Abnormalities. Cell Reports, 2018, 24, 3285-3295.e4.	6.4	35
17	Parasitic helminths induce fetal-like reversion in the intestinal stem cell niche. Nature, 2018, 559, 109-113.	27.8	223
18	Stem cell plasticity enables hair regeneration following Lgr5+ cell loss. Nature Cell Biology, 2017, 19, 666-676.	10.3	61

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19	A distinct role for Lgr5+ stem cells in primary and metastatic colon cancer. Nature, 2017, 543, 676-680.	27.8	587
20	Abstract LB-136: Characterization of residual Basal Cell Carcinoma after vismodegib treatment. , 2017, , .		0
21	Replacement of Lost Lgr5-Positive Stem Cells through Plasticity of Their Enterocyte-Lineage Daughters. Cell Stem Cell, 2016, 18, 203-213.	11.1	451
22	Comprehensive genomic analysis of malignant pleural mesothelioma identifies recurrent mutations, gene fusions and splicing alterations. Nature Genetics, 2016, 48, 407-416.	21.4	730
23	Genomic analysis identifies new drivers and progression pathways in skin basal cell carcinoma. Nature Genetics, 2016, 48, 398-406.	21.4	370
24	Targeting PTPRK-RSPO3 colon tumours promotes differentiation and loss of stem-cell function. Nature, 2016, 529, 97-100.	27.8	203
25	Efficacy of Hedgehog Pathway Inhibitors in Basal Cell Carcinoma. Molecular Cancer Therapeutics, 2015, 14, 633-641.	4.1	64
26	Genomic Analysis of Smoothened Inhibitor Resistance in Basal Cell Carcinoma. Cancer Cell, 2015, 27, 327-341.	16.8	316
27	Regulation of the oncoprotein Smoothened by small molecules. Nature Chemical Biology, 2015, 11, 246-255.	8.0	107
28	Translational value of mouse models in oncology drug development. Nature Medicine, 2015, 21, 431-439.	30.7	242
29	Opposing Activities of Notch and Wnt Signaling Regulate Intestinal Stem Cells and Gut Homeostasis. Cell Reports, 2015, 11, 33-42.	6.4	165
30	Randomized Phase Ib/II Study of Gemcitabine Plus Placebo or Vismodegib, a Hedgehog Pathway Inhibitor, in Patients With Metastatic Pancreatic Cancer. Journal of Clinical Oncology, 2015, 33, 4284-4292.	1.6	431
31	Stromal Indian Hedgehog Signaling Is Required for Intestinal Adenoma Formation in Mice. Gastroenterology, 2015, 148, 170-180.e6.	1.3	33
32	A comprehensive transcriptional portrait of human cancer cell lines. Nature Biotechnology, 2015, 33, 306-312.	17.5	556
33	Spectrum of diverse genomic alterations define nonâ€“clear cell renal carcinoma subtypes. Nature Genetics, 2015, 47, 13-21.	21.4	310
34	Induction of ectopic taste buds by SHH reveals the competency and plasticity of adult lingual epithelium. Development (Cambridge), 2014, 141, 2993-3002.	2.5	68
35	Intestinal crypt homeostasis revealed at single-stem-cell level by in vivo live imaging. Nature, 2014, 507, 362-365.	27.8	431
36	Comparative Oncogenomics Identifies PSMB4 and SHMT2 as Potential Cancer Driver Genes. Cancer Research, 2014, 74, 3114-3126.	0.9	128

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37	Integrated exome and transcriptome sequencing reveals ZAK isoform usage in gastric cancer. Nature Communications, 2014, 5, 3830.	12.8	77
38	Lgr5+ Stem Cells Are Indispensable for Radiation-Induced Intestinal Regeneration. Cell Stem Cell, 2014, 14, 149-159.	11.1	449
39	Discovery and preclinical development of vismodegib. Expert Opinion on Drug Discovery, 2014, 9, 969-984.	5.0	52
40	Abstract 4428: Oncogenic ERBB3 mutations in human cancers. , 2014, , .		0
41	Lgr5-Expressing Cells Are Sufficient and Necessary for Postnatal Mammary Gland Organogenesis. Cell Reports, 2013, 3, 70-78.	6.4	175
42	Influence of tumour micro-environment heterogeneity on therapeutic response. Nature, 2013, 501, 346-354.	27.8	2,093
43	PTEN Loss Mitigates the Response of Medulloblastoma to Hedgehog Pathway Inhibition. Cancer Research, 2013, 73, 7034-7042.	0.9	51
44	A tumor-specific stem cell. Nature Genetics, 2013, 45, 7-9.	21.4	47
45	Oncogenic ERBB3 Mutations in Human Cancers. Cancer Cell, 2013, 23, 603-617.	16.8	318
46	Recapitulating human cancer in a mouse. Nature Biotechnology, 2013, 31, 392-395.	17.5	7
47	An oxysterol ligand for Smoothened. Nature Chemical Biology, 2012, 8, 139-140.	8.0	9
48	Genome and transcriptome sequencing of lung cancers reveal diverse mutational and splicing events. Genome Research, 2012, 22, 2315-2327.	5.5	177
49	Recurrent R-spondin fusions in colon cancer. Nature, 2012, 488, 660-664.	27.8	862
50	Direct histological processing of EUS biopsies enables rapid molecular biomarker analysis for interventional pancreatic cancer trials. Pancreatology, 2012, 12, 8-15.	1.1	49
51	The effects of hepatitis B virus integration into the genomes of hepatocellular carcinoma patients. Genome Research, 2012, 22, 593-601.	5.5	257
52	Comprehensive genomic analysis identifies SOX2 as a frequently amplified gene in small-cell lung cancer. Nature Genetics, 2012, 44, 1111-1116.	21.4	906
53	Abstract SY37-03: Targeting developmental pathways in colon cancer cells and stem cells. , 2012, , .		0
54	A reserve stem cell population in small intestine renders Lgr5-positive cells dispensable. Nature, 2011, 478, 255-259.	27.8	994

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55	TMEFF2 Is a PDGF-AA Binding Protein with Methylation-Associated Gene Silencing in Multiple Cancer Types Including Glioma. PLoS ONE, 2011, 6, e18608.	2.5	40
56	Targeting Superficial or Nodular Basal Cell Carcinoma with Topically Formulated Small Molecule Inhibitor of Smoothened. Clinical Cancer Research, 2011, 17, 3378-3387.	7.0	65
57	Small Molecule Inhibition of GDC-0449 Refractory Smoothened Mutants and Downstream Mechanisms of Drug Resistance. Cancer Research, 2011, 71, 435-444.	0.9	339
58	Hedgehog Fights Back: Mechanisms of Acquired Resistance against Smoothened Antagonists. Cancer Research, 2011, 71, 5057-5061.	0.9	151
59	Prostate-specific Klf6 inactivation impairs anterior prostate branching morphogenesis through increased activation of the Shh pathway.. Journal of Biological Chemistry, 2011, 286, 43587.	3.4	0
60	TRPS1 Targeting by miR-221/222 Promotes the Epithelial-to-Mesenchymal Transition in Breast Cancer. Science Signaling, 2011, 4, ra41.	3.6	252
61	miR-221/222 Targeting of Trichorhinophalangeal 1 (TRPS1) Promotes Epithelial-to-Mesenchymal Transition in Breast CancerA presentation from the Keystone Symposium on Epithelial Plasticity and Epithelial to Mesenchymal Transition, Vancouver, Canada, 21 to 26 January 2011. This Presentation also complements the Science Signaling Research Article by Stinson et al. published 14 June 2011.. Science Signaling, 2011, 4, pt5.	3.6	109
62	Canonical hedgehog signaling augments tumor angiogenesis by induction of VEGF-A in stromal perivascular cells. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 9589-9594.	7.1	100
63	Pharmacokineticâ€“Pharmacodynamic Analysis of Vismodegib in Preclinical Models of Mutational and Ligand-Dependent Hedgehog Pathway Activation. Clinical Cancer Research, 2011, 17, 4682-4692.	7.0	96
64	Abstract PL04-03: Targeting the hedgehog pathway in meduloblastoma and basal cell carcinoma. , 2011, , .		0
65	Second generation 2-pyridyl biphenyl amide inhibitors of the hedgehog pathway. Bioorganic and Medicinal Chemistry Letters, 2010, 20, 6748-6753.	2.2	14
66	Vive la science ! Vive le hÃ©risson !. EMBO Reports, 2010, 11, 566-568.	4.5	0
67	The mutation spectrum revealed by paired genome sequences from a lung cancer patient. Nature, 2010, 465, 473-477.	27.8	453
68	Diverse somatic mutation patterns and pathway alterations in human cancers. Nature, 2010, 466, 869-873.	27.8	1,189
69	A mouse knockout library for secreted and transmembrane proteins. Nature Biotechnology, 2010, 28, 749-755.	17.5	316
70	Hedgehog signaling regulates the generation of ameloblast progenitors in the continuously growing mouse incisor. Development (Cambridge), 2010, 137, 3753-3761.	2.5	155
71	Hedgehog Pathway Antagonist 5E1 Binds Hedgehog at the Pseudo-active Site. Journal of Biological Chemistry, 2010, 285, 26570-26580.	3.4	120
72	IL-27 supports germinal center function by enhancing IL-21 production and the function of T follicular helper cells. Journal of Experimental Medicine, 2010, 207, 2895-2906.	8.5	185

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73	Kinetics of Hedgehog-Dependent Full-Length Gli3 Accumulation in Primary Cilia and Subsequent Degradation. Molecular and Cellular Biology, 2010, 30, 1910-1922.	2.3	230
74	Clinical Experience With Hedgehog Pathway Inhibitors. Journal of Clinical Oncology, 2010, 28, 5321-5326.	1.6	171
75	Abstract 305: Frequent PIK3R1 somatic mutations promote oncogenic signaling. , 2010, , .		0
76	Antibody-Drug Conjugates for the Treatment of Nonâ€“Hodgkin's Lymphoma: Target and Linker-Drug Selection. Cancer Research, 2009, 69, 2358-2364.	0.9	229
77	Paracrine Hedgehog Signaling in Cancer. Cancer Research, 2009, 69, 6007-6010.	0.9	195
78	Hedgehog signaling is restricted to the stromal compartment during pancreatic carcinogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 4254-4259.	7.1	366
79	Prostate-specific Klf6 Inactivation Impairs Anterior Prostate Branching Morphogenesis through Increased Activation of the Shh Pathway. Journal of Biological Chemistry, 2009, 284, 21057-21065.	3.4	24
80	Smoothened Mutation Confers Resistance to a Hedgehog Pathway Inhibitor in Medulloblastoma. Science, 2009, 326, 572-574.	12.6	774
81	The Mammalian Cos2 Homolog Kif7 Plays an Essential Role in Modulating Hh Signal Transduction during Development. Current Biology, 2009, 19, 1320-1326.	3.9	219
82	Somatic Mutations in p85Î± Promote Tumorigenesis through Class IA PI3K Activation. Cancer Cell, 2009, 16, 463-474.	16.8	291
83	The structure of SHH in complex with HHIP reveals a recognition role for the Shh pseudo active site in signaling. Nature Structural and Molecular Biology, 2009, 16, 691-697.	8.2	132
84	Structural Ties between Cholesterol Transport and Morphogen Signaling. Cell, 2009, 138, 1055-1056.	28.9	42
85	Hedgehog Signaling Is Dispensable for Adult Murine Hematopoietic Stem Cell Function and Hematopoiesis. Cell Stem Cell, 2009, 4, 559-567.	11.1	157
86	Mechanisms of Hedgehog pathway activation in cancer and implications for therapy. Trends in Pharmacological Sciences, 2009, 30, 303-312.	8.7	615
87	Inhibition of the Hedgehog Pathway in Advanced Basal-Cell Carcinoma. New England Journal of Medicine, 2009, 361, 1164-1172.	27.0	1,054
88	Treatment of Medulloblastoma with Hedgehog Pathway Inhibitor GDC-0449. New England Journal of Medicine, 2009, 361, 1173-1178.	27.0	951
89	Pronounced thrombocytosis in transgenic mice expressing reduced levels of Mpl in platelets and terminally differentiated megakaryocytes. Blood, 2009, 113, 1768-1777.	1.4	57
90	A paracrine requirement for hedgehog signalling in cancer. Nature, 2008, 455, 406-410.	27.8	904

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91	Interleukin-22 mediates early host defense against attaching and effacing bacterial pathogens. Nature Medicine, 2008, 14, 282-289.	30.7	1,670
92	Kinome siRNA Screen Identifies Regulators of Ciliogenesis and Hedgehog Signal Transduction. Science Signaling, 2008, 1, ra7.	3.6	79
93	Cutting Edge: IL-27 Is a Potent Inducer of IL-10 but Not FoxP3 in Murine T Cells. Journal of Immunology, 2008, 180, 2752-2756.	0.8	197
94	Abstract LB-138: Efficacy data of GDC-0449, a systemic Hedgehog pathway antagonist, in a first-in-human, first-in-class Phase I study with locally advanced, multifocal or metastatic basal cell carcinoma patients. Cancer Research, 2008, 68, LB-138-LB-138.	0.9	8
95	IL-31â€“IL-31R interactions negatively regulate type 2 inflammation in the lung. Journal of Experimental Medicine, 2007, 204, 481-487.	8.5	75
96	Highly efficient somatic-mutation identification using Escherichia coli mismatch-repair detection. Nature Methods, 2007, 4, 713-715.	19.0	6
97	Regulation of myeloid progenitor cell proliferation/survival by IL-31 receptor and IL-31. Experimental Hematology, 2007, 35, 78-86.	0.4	24
98	Interleukin-27R (WSX-1/T-Cell Cytokine Receptor) Gene-Deficient Mice Display Enhanced Resistance to Leishmania donovani Infection but Develop Severe Liver Immunopathology. American Journal of Pathology, 2006, 168, 158-169.	3.8	126
99	Structure of SAP18:Â A Ubiquitin Fold in Histone Deacetylase Complex Assemblyâ€¡. Biochemistry, 2006, 45, 11974-11982.	2.5	12
100	Notch signaling is required for normal prostatic epithelial cell proliferation and differentiation. Developmental Biology, 2006, 290, 66-80.	2.0	132
101	Interleukin 27 limits autoimmune encephalomyelitis by suppressing the development of interleukin 17â€“producing T cells. Nature Immunology, 2006, 7, 929-936.	14.5	763
102	Targeting the Hedgehog pathway in cancer. Nature Reviews Drug Discovery, 2006, 5, 1026-1033.	46.4	724
103	The Hedgehog Signaling Pathway in Cancer. Clinical Cancer Research, 2006, 12, 5924-5928.	7.0	225
104	IL-27 Limits IL-2 Production during Th1 Differentiation. Journal of Immunology, 2006, 176, 237-247.	0.8	196
105	Positive and Negative Regulation of the IL-27 Receptor during Lymphoid Cell Activation. Journal of Immunology, 2005, 174, 7684-7691.	0.8	154
106	Loss of the Serine/Threonine Kinase Fused Results in Postnatal Growth Defects and Lethality Due to Progressive Hydrocephalus. Molecular and Cellular Biology, 2005, 25, 7054-7068.	2.3	111
107	Maternal Embryonic Leucine Zipper Kinase/Murine Protein Serine-Threonine Kinase 38 Is a Promising Therapeutic Target for Multiple Cancers. Cancer Research, 2005, 65, 9751-9761.	0.9	159
108	Suppressor of Fused Regulates Gli Activity through a Dual Binding Mechanism. Molecular and Cellular Biology, 2004, 24, 8627-8641.	2.3	117

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109	Activity-Dependent Internalization of Smoothened Mediated by Â-Arrestin 2 and GRK2. Science, 2004, 306, 2257-2260.	12.6	264
110	Compromised Humoral and Delayed-Type Hypersensitivity Responses in IL-23-Deficient Mice. Journal of Immunology, 2004, 172, 2827-2833.	0.8	182
111	The endothelial-cell-derived secreted factor Egfl7 regulates vascular tube formation. Nature, 2004, 428, 754-758.	27.8	349
112	IL-27 regulates IL-12 responsiveness of naive CD4+ T cells through Stat1-dependent and -independent mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 15047-15052.	7.1	416
113	Interleukin-23 Promotes a Distinct CD4 T Cell Activation State Characterized by the Production of Interleukin-17. Journal of Biological Chemistry, 2003, 278, 1910-1914.	3.4	1,595
114	Inhibition of Epithelial Ductal Branching in the Prostate by Sonic Hedgehog Is Indirectly Mediated by Stromal Cells. Journal of Biological Chemistry, 2003, 278, 18506-18513.	3.4	83
115	A Novel Type I Cytokine Receptor Is Expressed on Monocytes, Signals Proliferation, and Activates STAT-3 and STAT-5. Journal of Biological Chemistry, 2002, 277, 16831-16836.	3.4	66
116	Requirement for mitogen-activated protein kinase activation in the response of embryonic stem cellâ€“derived hematopoietic cells to thrombopoietin in vitro. Blood, 2002, 99, 1174-1182.	1.4	16
117	Downregulation of Hedgehog Signaling Is Required for Organogenesis of the Small Intestine in Xenopus. Developmental Biology, 2001, 229, 188-202.	2.0	45
118	Activation of Expression of Hedgehog Target Genes in Basal Cell Carcinomas. Journal of Investigative Dermatology, 2001, 116, 739-742.	0.7	139
119	The seven-transmembrane receptor Smoothened cell-autonomously induces multiple ventral cell types. Nature Neuroscience, 2000, 3, 41-46.	14.8	138
120	Gli regulation by the opposing activities of Fused and Suppressor of Fused. Nature Cell Biology, 2000, 2, 310-312.	10.3	133
121	Development of Th1-type immune responses requires the type I cytokine receptor TCCR. Nature, 2000, 407, 916-920.	27.8	352
122	Embryonic stem cell differentiation to hematopoietic cells. Experimental Hematology, 2000, 28, 1363-1372.	0.4	11
123	Characterization of Novel Neutralizing Monoclonal Antibodies Specific to Human Neurturin. Hybridoma, 2000, 19, 303-315.	0.6	8
124	Smoothened Activates GÎ±i-mediated Signaling in Frog Melanophores. Journal of Biological Chemistry, 2000, 275, 26322-26327.	3.4	98
125	Role of the Distal Half of the c-Mpl Intracellular Domain in Control of Platelet Production by Thrombopoietin In Vivo. Molecular and Cellular Biology, 2000, 20, 507-515.	2.3	51
126	Sonic hedgehog signaling by the Patchedâ€“Smoothened receptor complex. Current Biology, 1999, 9, 76-84.	3.9	290

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127	Hedgehog Signal Transduction: From Flies to Vertebrates. Experimental Cell Research, 1999, 253, 25-33.	2.6	113
128	Activating Smoothened mutations in sporadic basal-cell carcinoma. Nature, 1998, 391, 90-92.	27.8	1,209
129	Regulation of megakaryocytopoiesis and platelet production: Lessons from animal models. Translational Research, 1998, 131, 496-501.	2.3	23
130	Hematopoietic Deficiencies in câ€mpl and TPO Knockout Mice. Stem Cells, 1998, 16, 1-6.	3.2	95
131	Persephin, a Novel Neurotrophic Factor Related to GDNF and Neurturin. Neuron, 1998, 20, 245-253.	8.1	460
132	Distinct expression patterns of notch family receptors and ligands during development of the mammalian inner ear. Mechanisms of Development, 1998, 78, 159-163.	1.7	108
133	Role of c-mpl in Early Hematopoiesis. Blood, 1998, 92, 4-10.	1.4	342
134	Primary Role of the Liver in Thrombopoietin Production Shown by Tissue-Specific Knockout. Blood, 1998, 92, 2189-2191.	1.4	108
135	Human Platelets as a Model for the Binding and Degradation of Thrombopoietin. Blood, 1997, 89, 2782-2788.	1.4	141
136	Regulation of the Serum Concentration of Thrombopoietin in Thrombocytopenic NF-E2 Knockout Mice. Blood, 1997, 90, 1821-1827.	1.4	68
137	Normal Platelets and Megakaryocytes Are Produced In Vivo in the Absence of Thrombopoietin. Blood, 1997, 90, 3423-3429.	1.4	127
138	Physical Mapping and Genomic Structure of the HumanTNFR2Gene. Genomics, 1996, 35, 94-100.	2.9	65
139	The tumour-suppressor gene patched encodes a candidate receptor for Sonic hedgehog. Nature, 1996, 384, 129-134.	27.8	1,065
140	Stimulation of megakaryocytopoiesis and thrombopoiesis by the c-Mpl ligand. Nature, 1994, 369, 533-538.	27.8	1,329
141	Decreased sensitivity to tumour-necrosis factor but normal T-cell development in TNF receptor-2-deficient mice. Nature, 1994, 372, 560-563.	27.8	586
142	Molecular cloning of a retina-specific membrane guanylyl cyclase. Neuron, 1992, 9, 727-737.	8.1	232