

# Frederik De Smet

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

6,573  
citations

172207

29  
h-index

243296

44  
g-index

55  
all docs

55  
docs citations

55  
times ranked

10511  
citing authors

#	ARTICLE	IF	CITATIONS
1	VEGF is a modifier of amyotrophic lateral sclerosis in mice and humans and protects motoneurons against ischemic death. <i>Nature Genetics</i> , 2003, 34, 383-394.	9.4	794
2	Gene prioritization through genomic data fusion. <i>Nature Biotechnology</i> , 2006, 24, 537-544.	9.4	787
3	Heterozygous Deficiency of PHD2 Restores Tumor Oxygenation and Inhibits Metastasis via Endothelial Normalization. <i>Cell</i> , 2009, 136, 839-851.	13.5	727
4	The netrin receptor UNC5B mediates guidance events controlling morphogenesis of the vascular system. <i>Nature</i> , 2004, 432, 179-186.	13.7	486
5	Gain of function of mutant p53 by coaggregation with multiple tumor suppressors. <i>Nature Chemical Biology</i> , 2011, 7, 285-295.	3.9	450
6	Mechanisms of Vessel Branching. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009, 29, 639-649.	1.1	328
7	VEGF: A modifier of the del22q11 (DiGeorge) syndrome?. <i>Nature Medicine</i> , 2003, 9, 173-182.	15.2	288
8	Single-cell profiling of myeloid cells in glioblastoma across species and disease stage reveals macrophage competition and specialization. <i>Nature Neuroscience</i> , 2021, 24, 595-610.	7.1	288
9	FGF-dependent metabolic control of vascular development. <i>Nature</i> , 2017, 545, 224-228.	13.7	256
10	An Integrated Gene Expression Landscape Profiling Approach to Identify Lung Tumor Endothelial Cell Heterogeneity and Angiogenic Candidates. <i>Cancer Cell</i> , 2020, 37, 21-36.e13.	7.7	253
11	Branching morphogenesis and antiangiogenesis candidates: tip cells lead the way. <i>Nature Reviews Clinical Oncology</i> , 2009, 6, 315-326.	12.5	195
12	Monocyte-driven atypical cytokine storm and aberrant neutrophil activation as key mediators of COVID-19 disease severity. <i>Nature Communications</i> , 2021, 12, 4117.	5.8	170
13	Single-Cell RNA Sequencing Maps Endothelial Metabolic Plasticity in Pathological Angiogenesis. <i>Cell Metabolism</i> , 2020, 31, 862-877.e14.	7.2	169
14	Inhibition of Tumor Angiogenesis and Growth by a Small-Molecule Multi-FGF Receptor Blocker with Allosteric Properties. <i>Cancer Cell</i> , 2013, 23, 477-488.	7.7	138
15	Molecular Mechanism of SSR128129E, an Extracellularly Acting, Small-Molecule, Allosteric Inhibitor of FGF Receptor Signaling. <i>Cancer Cell</i> , 2013, 23, 489-501.	7.7	125
16	Role of Delta-like-4/Notch in the Formation and Wiring of the Lymphatic Network in Zebrafish. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010, 30, 1695-1702.	1.1	118
17	Role of neural guidance signals in blood vessel navigation. <i>Cardiovascular Research</i> , 2005, 65, 629-638.	1.8	85
18	Allosteric targeting of receptor tyrosine kinases. <i>Nature Biotechnology</i> , 2014, 32, 1113-1120.	9.4	73

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19	The neurovascular link in health and disease: an update. <i>Trends in Molecular Medicine</i> , 2009, 15, 439-451.	3.5	65
20	De novo design of a biologically active amyloid. <i>Science</i> , 2016, 354, .	6.0	63
21	Differential Endothelial Transcriptomics Identifies Semaphorin 3G as a Vascular Class 3 Semaphorin. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011, 31, 151-159.	1.1	60
22	Increased IL-10-producing regulatory T cells are characteristic of severe cases of COVID-19. <i>Clinical and Translational Immunology</i> , 2020, 9, e1204.	1.7	59
23	Structural hot spots for the solubility of globular proteins. <i>Nature Communications</i> , 2016, 7, 10816.	5.8	57
24	Nuclear inclusion bodies of mutant and wild-type p53 in cancer: a hallmark of p53 inactivation and proteostasis remodelling by p53 aggregation. <i>Journal of Pathology</i> , 2017, 242, 24-38.	2.1	54
25	Linking single-cell measurements of mass, growth rate, and gene expression. <i>Genome Biology</i> , 2018, 19, 207.	3.8	42
26	Role of synectin in lymphatic development in zebrafish and frogs. <i>Blood</i> , 2010, 116, 3356-3366.	0.6	36
27	Fibroblast Growth Factor Signaling Affects Vascular Outgrowth and Is Required for the Maintenance of Blood Vessel Integrity. <i>Chemistry and Biology</i> , 2014, 21, 1310-1317.	6.2	34
28	Endothelial oxygen sensors regulate tumor vessel abnormalization by instructing pericyte endothelial cells. <i>Journal of Molecular Medicine</i> , 2009, 87, 561-569.	1.7	33
29	Aggregation gatekeepers modulate protein homeostasis of aggregating sequences and affect bacterial fitness. <i>Protein Engineering, Design and Selection</i> , 2012, 25, 357-366.	1.0	33
30	Sequence-specific protein aggregation generates defined protein knockdowns in plants. <i>Plant Physiology</i> , 2016, 171, pp.00335.2016.	2.3	24
31	Immunogenic cell death and its therapeutic or prognostic potential in high-grade glioma. <i>Genes and Immunity</i> , 2022, 23, 1-11.	2.2	24
32	Sequence-dependent Internalization of Aggregating Peptides. <i>Journal of Biological Chemistry</i> , 2015, 290, 242-258.	1.6	22
33	Multiplexed Immunohistochemistry and Digital Pathology as the Foundation for Next-Generation Pathology in Melanoma: Methodological Comparison and Future Clinical Applications. <i>Frontiers in Oncology</i> , 2021, 11, 636681.	1.3	22
34	Balancing false positives and false negatives for the detection of differential expression in malignancies. <i>British Journal of Cancer</i> , 2004, 91, 1160-1165.	2.9	18
35	Next-Generation Pathology by Multiplexed Immunohistochemistry. <i>Trends in Biochemical Sciences</i> , 2021, 46, 80-82.	3.7	18
36	Immunocompetent Mouse Models in the Search for Effective Immunotherapy in Glioblastoma. <i>Cancers</i> , 2021, 13, 19.	1.7	18

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37	Mapping the Immune Landscape in Metastatic Melanoma Reveals Localized Cell-Cell Interactions That Predict Immunotherapy Response. <i>Cancer Research</i> , 2022, 82, 3275-3290.	0.4	17
38	Fishing and frogging for anti-angiogenic drugs. , 2006, 2, 228-229.		14
39	High dimensional profiling identifies specific immune types along the recovery trajectories of critically ill COVID19 patients. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 3987-4002.	2.4	13
40	Community-acquired pneumonia (CAP) hospitalizations and deaths: is there a role for quality improvement through inter-hospital comparisons?. <i>International Journal for Quality in Health Care</i> , 2016, 28, 22-32.	0.9	11
41	Establishing a Unified COVID-19 "Immunome" Integrating Coronavirus Pathogenesis and Host Immunopathology. <i>Frontiers in Immunology</i> , 2020, 11, 1642.	2.2	11
42	A Multi-Omics Analysis of Metastatic Melanoma Identifies a Germinal Center-Like Tumor Microenvironment in HLA-DR-Positive Tumor Areas. <i>Frontiers in Oncology</i> , 2021, 11, 636057.	1.3	8
43	Monocyte-Driven Atypical Cytokine Storm and Aberrant Neutrophil Activation as Key Mediators of COVID19 Disease Severity. <i>SSRN Electronic Journal</i> , 0, , .	0.4	3
44	Therapeutic Potential of Allosteric Modulation of FGF Receptors. , 2017, , 169-185.		0
45	OTHR-38. The development of patient-derived models of pediatric brain tumors. <i>Neuro-Oncology</i> , 2022, 24, i155-i155.	0.6	0
46	OTHR-39. Extraneural spreading of a diffuse leptomeningeal glioneuronal tumor in a child: patient-derived models show sensitivity to vinblastin and trametinib. <i>Neuro-Oncology</i> , 2022, 24, i155-i156.	0.6	0
47	HGG-56. Spatial mapping of the tumor micro-environment in pediatric glioma. <i>Neuro-Oncology</i> , 2022, 24, i74-i74.	0.6	0