Stephane Angers

List of Publications by Year
in descending order

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108 papers	14,490 citations	41323 49 h-index	28275 105 g-index
137 all docs	137 docs citations	137 times ranked	21912 citing authors

#	Article	IF	Citations
1	High-Resolution CRISPR Screens Reveal Fitness Genes and Genotype-Specific Cancer Liabilities. Cell, 2015, 163, 1515-1526.	13.5	1,339
2	Proximal events in Wnt signal transduction. Nature Reviews Molecular Cell Biology, 2009, 10, 468-477.	16.1	982
3	Gli Proteins in Development and Disease. Annual Review of Cell and Developmental Biology, 2011, 27, 513-537.	4.0	603
4	High-Density Proximity Mapping Reveals the Subcellular Organization of mRNA-Associated Granules and Bodies. Molecular Cell, 2018, 69, 517-532.e11.	4.5	583
5	Molecular architecture and assembly of the DDB1â€“CUL4A ubiquitin ligase machinery. Nature, 2006, 443, 590-593.	13.7	580
6	DIMERIZATION: An Emerging Concept for G Proteinâ€“Coupled Receptor Ontogeny and Function. Annual Review of Pharmacology and Toxicology, 2002, 42, 409-435.	4.2	553
7	Wnt signaling in development and tissue homeostasis. Development (Cambridge), 2018, 145, .	1.2	528
8	Pharmacological chaperones rescue cell-surface expression and function of misfolded V2 vasopressin receptor mutants. Journal of Clinical Investigation, 2000, 105, 887-895.	3.9	502
9	Â-Arrestin-mediated activation of MAPK by inverse agonists reveals distinct active conformations for G protein-coupled receptors. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 11406-11411.	3.3	482
10	Detection of beta 2-adrenergic receptor dimerization in living cells using bioluminescence resonance energy transfer (BRET). Proceedings of the National Academy of Sciences of the United States of America, 2000, 97, 3684-3689.	3.3	467
11	Quantitative Assessment of Î²1- and Î²2-Adrenergic Receptor Homo- and Heterodimerization by Bioluminescence Resonance Energy Transfer. Journal of Biological Chemistry, 2002, 277, 44925-44931.	1.6	434
12	Visualization of a short-range Wnt gradient in the intestinal stem-cell niche. Nature, 2016, 530, 340-343.	13.7	425
13	Wilms Tumor Suppressor WTX Negatively Regulates WNT/Â-Catenin Signaling. Science, 2007, 316, 1043-1046.	6.0	379
14	The KLHL12â€“Cullin-3 ubiquitin ligase negatively regulates the Wntâ€“Î²-catenin pathway by targeting Dishevelled for degradation. Nature Cell Biology, 2006, 8, 348-357.	4.6	346
15	YAP1 is amplified and up-regulated in hedgehog-associated medulloblastomas and mediates Sonic hedgehog-driven neural precursor proliferation. Genes and Development, 2009, 23, 2729-2741.	2.7	332
16	CRISPR screens identify genomic ribonucleotides as a source of PARP-trapping lesions. Nature, 2018, 559, 285-289.	13.7	297
17	Glutamate Transporter Coupling to Na,K-ATPase. Journal of Neuroscience, 2009, 29, 8143-8155.	1.7	284
18	Monitoring of Ligand-independent Dimerization and Ligand-induced Conformational Changes of Melatonin Receptors in Living Cells by Bioluminescence Resonance Energy Transfer. Journal of Biological Chemistry, 2002, 277, 21522-21528.	1.6	277

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19	Homodimerization of the Î²2-Adrenergic Receptor as a Prerequisite for Cell Surface Targeting. Journal of Biological Chemistry, 2004, 279, 33390-33397.	1.6	262
20	Genome-wide CRISPR screens reveal a Wntâ€“FZD5 signaling circuit as a druggable vulnerability of RNF43-mutant pancreatic tumors. Nature Medicine, 2017, 23, 60-68.	15.2	261
21	Functional Enhancers Shape Extrachromosomal Oncogene Amplifications. Cell, 2019, 179, 1330-1341.e13.	13.5	206
22	Constitutive Agonist-independent CCR5 Oligomerization and Antibody-mediated Clustering Occurring at Physiological Levels of Receptors. Journal of Biological Chemistry, 2002, 277, 34666-34673.	1.6	183
23	A Bacterial Acetyltransferase Destroys Plant Microtubule Networks and Blocks Secretion. PLoS Pathogens, 2012, 8, e1002523.	2.1	178
24	ASCL1 Reorganizes Chromatin to Direct Neuronal Fate and Suppress Tumorigenicity of Glioblastoma Stem Cells. Cell Stem Cell, 2017, 21, 209-224.e7.	5.2	150
25	BioID-based Identification of Skp Cullin F-box (SCF)Î²-TrCP1/2 E3 Ligase Substrates*. Molecular and Cellular Proteomics, 2015, 14, 1781-1795.	2.5	148
26	Gradient of Developmental and Injury Response transcriptional states defines functional vulnerabilities underpinning glioblastoma heterogeneity. Nature Cancer, 2021, 2, 157-173.	5.7	147
27	Genome-Wide CRISPR-Cas9 Screens Expose Genetic Vulnerabilities and Mechanisms of Temozolomide Sensitivity in Glioblastoma Stem Cells. Cell Reports, 2019, 27, 971-986.e9.	2.9	139
28	New Regulators of Wnt/Î²-Catenin Signaling Revealed by Integrative Molecular Screening. Science Signaling, 2008, 1, ra12.	1.6	135
29	The Ubiquitin-Specific Protease USP34 Regulates Axin Stability and Wnt/Î²-Catenin Signaling. Molecular and Cellular Biology, 2011, 31, 2053-2065.	1.1	128
30	Copper bioavailability is a KRAS-specific vulnerability in colorectal cancer. Nature Communications, 2020, 11, 3701.	5.8	128
31	Identifying chemogenetic interactions from CRISPR screens with drugZ. Genome Medicine, 2019, 11, 52.	3.6	127
32	Inhibition of Tankyrases Induces Axin Stabilization and Blocks Wnt Signalling in Breast Cancer Cells. PLoS ONE, 2012, 7, e48670.	1.1	126
33	THE BRET2/ARRESTIN ASSAY IN STABLE RECOMBINANT CELLS: A PLATFORM TO SCREEN FOR COMPOUNDS THAT INTERACT WITH G PROTEIN-COUPLED RECEPTORS (GPCRS)*. Journal of Receptor and Signal Transduction Research, 2002, 22, 533-541.	1.3	112
34	A protein complex of SCRIB, NOS1AP and VANGL1 regulates cell polarity and migration, and is associated with breast cancer progression. Oncogene, 2012, 31, 3696-3708.	2.6	109
35	Functional Significance of Oligomerization of G-protein-coupled Receptors. Trends in Endocrinology and Metabolism, 2000, 11, 163-168.	3.1	108
36	Ptk7 promotes non-canonical Wnt/PCP-mediated morphogenesis and inhibits Wnt/Î²-catenin-dependent cell fate decisions during vertebrate development. Development (Cambridge), 2013, 140, 1807-1818.	1.2	93

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37	Î²2-Adrenergic Receptor Down-regulation. Journal of Biological Chemistry, 1999, 274, 28900-28908.	1.6	83
38	Metabolic Regulation of the Epigenome Drives Lethal Infantile Ependymoma. Cell, 2020, 181, 1329-1345.e24.	13.5	79
39	Wnt and Notch signaling govern self-renewal and differentiation in a subset of human glioblastoma stem cells. Genes and Development, 2019, 33, 498-510.	2.7	74
40	Tailored tetravalent antibodies potently and specifically activate Wnt/Frizzled pathways in cells, organoids and mice. ELife, 2019, 8, .	2.8	67
41	Essential role of the Dishevelled DEP domain in a Wnt-dependent human-cell-based complementation assay. Journal of Cell Science, 2016, 129, 3892-3902.	1.2	65
42	KIF14 negatively regulates Rap1aâ€“Radil signaling during breast cancer progression. Journal of Cell Biology, 2012, 199, 951-967.	2.3	64
43	Oligomeric Size of the M2 Muscarinic Receptor in Live Cells as Determined by Quantitative Fluorescence Resonance Energy Transfer. Journal of Biological Chemistry, 2010, 285, 16723-16738.	1.6	63
44	PRICKLE1 Contributes to Cancer Cell Dissemination through Its Interaction with mTORC2. Developmental Cell, 2016, 37, 311-325.	3.1	63
45	Systematic proteinâ€“protein interaction mapping for clinically relevant human <scp>GPCR</scp>s. Molecular Systems Biology, 2017, 13, 918.	3.2	63
46	Biochemical and biophysical demonstration of GPCR oligomerization in mammalian cells. Life Sciences, 2001, 68, 2243-2250.	2.0	62
47	Three-Dimensional Nanostructured Architectures Enable Efficient Neural Differentiation of Mesenchymal Stem Cells via Mechanotransduction. Nano Letters, 2018, 18, 7188-7193.	4.5	60
48	Calcium-sensing Receptor Modulates Cell Adhesion and Migration via Integrins. Journal of Biological Chemistry, 2011, 286, 40922-40933.	1.6	59
49	The Human PDZome: A Gateway to PSD95-Disc Large-Zonula Occludens (PDZ)-mediated Functions. Molecular and Cellular Proteomics, 2013, 12, 2587-2603.	2.5	59
50	The Pseudomonas syringae Type III Effector HopF2 Suppresses Arabidopsis Stomatal Immunity. PLoS ONE, 2014, 9, e114921.	1.1	57
51	Dishevelled is a NEK2 kinase substrate controlling dynamics of centrosomal linker proteins. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9304-9309.	3.3	55
52	High-throughput genome-wide phenotypic screening via immunomagnetic cell sorting. Nature Biomedical Engineering, 2019, 3, 796-805.	11.6	53
53	A selective peptide inhibitor of Frizzled 7 receptors disrupts intestinal stem cells. Nature Chemical Biology, 2018, 14, 582-590.	3.9	50
54	Progesterone Receptor Membrane Component 1 Is a Functional Part of the Glucagon-like Peptide-1 (GLP-1) Receptor Complex in Pancreatic Î² Cells. Molecular and Cellular Proteomics, 2014, 13, 3049-3062.	2.5	48

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55	Functional characterization of a novel serotonin receptor (5-HTap2) expressed in the CNS of Aplysia californica. Journal of Neurochemistry, 2002, 80, 335-345.	2.1	46
56	G Protein Î²Î³ Subunits Regulate Cell Adhesion through Rap1a and Its Effector Radil. Journal of Biological Chemistry, 2010, 285, 6538-6551.	1.6	45
57	Single-cell chromatin accessibility profiling of glioblastoma identifies an invasive cancer stem cell population associated with lower survival. ELife, 2021, 10, .	2.8	45
58	The PPFIA1-PP2A protein complex promotes trafficking of Kif7 to the ciliary tip and Hedgehog signaling. Science Signaling, 2014, 7, ra117.	1.6	44
59	Mink1 Regulates Î²-Catenin-Independent Wnt Signaling via Prickle Phosphorylation. Molecular and Cellular Biology, 2012, 32, 173-185.	1.1	43
60	Single-molecule dynamics of Dishevelled at the plasma membrane and Wnt pathway activation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16690-16701.	3.3	42
61	A synthetic anti-Frizzled antibody engineered for broadened specificity exhibits enhanced anti-tumor properties. MAbs, 2018, 10, 1157-1167.	2.6	39
62	Dual Regulatory Functions of SUFU and Targetome of GLI2 in SHH Subgroup Medulloblastoma. Developmental Cell, 2019, 48, 167-183.e5.	3.1	39
63	Recovery of Oligomers and Cooperativity When Monomers of the M2 Muscarinic Cholinergic Receptor Are Reconstituted into Phospholipid Vesicles. Biochemistry, 2007, 46, 7907-7927.	1.2	38
64	Ptch2 shares overlapping functions with Ptch1 in Smo regulation and limb development. Developmental Biology, 2015, 397, 191-202.	0.9	38
65	Ubiquitination and activation of a Rab GTPase promoted by a Î²2-Adrenergic Receptor/HACE1 complex. Journal of Cell Science, 2014, 127, 111-23.	1.2	36
66	Ca2+/Calmodulin-dependent protein Kinase II interacts with group I Metabotropic Glutamate and facilitates Receptor Endocytosis and ERK1/2 signaling: role of Î²-Amyloid. Molecular Brain, 2015, 8, 21.	1.3	36
67	Precise Temporal Regulation of Post-transcriptional Repressors Is Required for an Orderly Drosophila Maternal-to-Zygotic Transition. Cell Reports, 2020, 31, 107783.	2.9	35
68	A Par-1-Par-3-Centrosome Cell Polarity Pathway and Its Tuning for Isotropic Cell Adhesion. Current Biology, 2015, 25, 2701-2708.	1.8	34
69	The RNA-Binding Protein Rasputin/G3BP Enhances the Stability and Translation of Its Target mRNAs. Cell Reports, 2020, 30, 3353-3367.e7.	2.9	33
70	Modulation of the Î²-Catenin Signaling Pathway by the Dishevelled-Associated Protein Hipk1. PLoS ONE, 2009, 4, e4310.	1.1	32
71	YB-1 is elevated in medulloblastoma and drives proliferation in Sonic hedgehog-dependent cerebellar granule neuron progenitor cells and medulloblastoma cells. Oncogene, 2016, 35, 4256-4268.	2.6	32
72	SAPCD2 Controls Spindle Orientation and Asymmetric Divisions by Negatively Regulating the GÎ±i-LGN-NuMA Ternary Complex. Developmental Cell, 2016, 36, 50-62.	3.1	31

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73	Novel, Gel-free Proteomics Approach Identifies RNF5 and JAMP as Modulators of GPCR Stability. Molecular Endocrinology, 2013, 27, 1245-1266.	3.7	30
74	A Norrin/Wnt surrogate antibody stimulates endothelial cell barrier function and rescues retinopathy. EMBO Molecular Medicine, 2021, 13, e13977.	3.3	30
75	IPO11 mediates Î²catenin nuclear import in a subset of colorectal cancers. Journal of Cell Biology, 2020, 219, .	2.3	27
76	An aplysia dopamine1-like receptor: molecular and functional characterization. Journal of Neurochemistry, 2006, 96, 414-427.	2.1	26
77	Agonistâ€induced desensitisation of Î²₃â€adrenoceptors: Where, when, and how?. British Journal of Pharmacology, 2019, 176, 2539-2558.	2.7	26
78	Radil controls neutrophil adhesion and motility through Î²2-integrin activation. Molecular Biology of the Cell, 2012, 23, 4751-4765.	0.9	23
79	Role of Spinophilin in Group I Metabotropic Glutamate Receptor Endocytosis, Signaling, and Synaptic Plasticity. Journal of Biological Chemistry, 2016, 291, 17602-17615.	1.6	23
80	Structure-guided design fine-tunes pharmacokinetics, tolerability, and antitumor profile of multispecific frizzled antibodies. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 6812-6817.	3.3	23
81	A Novel Assay for Measurement of Membraneâ€Protein Surface Expression using a Î²â€lactamase Reporter. Traffic, 2013, 14, 778-784.	1.3	22
82	ARGLU1 is a transcriptional coactivator and splicing regulator important for stress hormone signaling and development. Nucleic Acids Research, 2019, 47, 2856-2870.	6.5	20
83	Evasion of p53 and G2/M checkpoints are characteristic of Hh-driven basal cell carcinoma. Oncogene, 2014, 33, 2674-2680.	2.6	19
84	The Identification of Novel Protein-Protein Interactions in Liver that Affect Glucagon Receptor Activity. PLoS ONE, 2015, 10, e0129226.	1.1	19
85	GÎ² 4 Î³ 1 as a modulator of M3 muscarinic receptor signalling and novel roles of GÎ² 1 subunits in the modulation of cellular signalling. Cellular Signalling, 2015, 27, 1597-1608.	1.7	18
86	Identification of Novel Smoothened Ligands Using Structure-Based Docking. PLoS ONE, 2016, 11, e0160365.	1.1	17
87	Nanostructured Architectures Promote the Mesenchymalâ€“Epithelial Transition for Invasive Cells. ACS Nano, 2020, 14, 5324-5336.	7.3	17
88	Separating the Anti-Inflammatory and Diabetogenic Effects of Glucocorticoids Through LXRÎ² Antagonism. Endocrinology, 2017, 158, 1034-1047.	1.4	15
89	The RanBP2/RanGAP1-SUMO complex gates Î²-arrestin2 nuclear entry to regulate the Mdm2-p53 signaling axis. Oncogene, 2021, 40, 2243-2257.	2.6	13
90	Nanoparticle Amplification Labeling for High-Performance Magnetic Cell Sorting. Nano Letters, 2022, 22, 4774-4783.	4.5	13

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91	Wnt signaling inhibition confers induced synthetic lethality to PARP inhibitors. EMBO Molecular Medicine, 2021, 13, e14002.	3.3	10
92	Emerging non-canonical functions for heterotrimeric G proteins in cellular signaling. Journal of Receptor and Signal Transduction Research, 2013, 33, 177-183.	1.3	9
93	Stepping stone: a cytohesin adaptor for membrane cytoskeleton restraint in the syncytial Drosophila embryo. Molecular Biology of the Cell, 2015, 26, 711-725.	0.9	9
94	Tandem Affinity Purification and Identification of Heterotrimeric G Protein-Associated Proteins. Methods in Molecular Biology, 2011, 756, 357-370.	0.4	7
95	Rapid On-Cell Selection of High-Performance Human Antibodies. ACS Central Science, 2022, 8, 102-109.	5.3	6
96	Reply: beyond receptor dimerization. Trends in Pharmacological Sciences, 2000, 21, 326.	4.0	5
97	New insights in the regulation of Rab GTPases by G protein-coupled receptors. Small GTPases, 2014, 5, e983872.	0.7	5
98	Tandem Affinity Purification to Identify Cytosolic and Nuclear GÎ²Î³-Interacting Proteins. Methods in Molecular Biology, 2015, 1234, 161-184.	0.4	5
99	Proteomic Analyses of Protein Complexes in the Wnt Pathway. Methods in Molecular Biology, 2008, 468, 223-230.	0.4	5
100	The F-box protein Bard (CG14317) targets the Smaug RNA-binding protein for destruction during the Drosophila maternal-to-zygotic transition. Genetics, 2021, , .	1.2	5
101	Ptk7 promotes non-canonical Wnt/PCP-mediated morphogenesis and inhibits Wnt/Î²-catenin-dependent cell fate decisions during vertebrate development. Development (Cambridge), 2013, 140, 2245-2245.	1.2	1
102	Oligomeric Size of the M2 Muscarinic Receptor in the Plasma Membrane of Live Cells as Determined by Quantitative FRET. Biophysical Journal, 2009, 96, 169a.	0.2	0
103	STEM-21. INVESTIGATING DOT1L AS AN EPIGENETIC VULNERABILITY IN BRAIN TUMOR STEM CELLS. Neuro-Oncology, 2019, 21, vi238-vi238.	0.6	0
104	GENE-31. IDENTIFICATION OF CORE AND CONTEXT-SPECIFIC FITNESS GENES IN GLIOBLASTOMA STEM CELLS VIA GENOME-WIDE CRISPR-Cas9 SCREENS. Neuro-Oncology, 2019, 21, vi104-vi104.	0.6	0
105	Abstract PR03: High-resolution detection of fitness genes and genotype-specific cancer vulnerabilities with CRISPR-Cas9 screens. , 2016, , .		0
106	Abstract IA06: Leveraging genome-wide CRISPR screens and synthetic lethal interactions for novel cancer therapeutics. , 2017, , .		0
107	The Functional Genomic Circuitry of Human Glioblastoma Stem Cells. SSRN Electronic Journal, 0, , .	0.4	0
108	Structure-guided engineering fine-tunes pharmacokinetics, tolerability and anti-tumor profile of anti-frizzled antibody. Acta Crystallographica Section A: Foundations and Advances, 2018, 74, a297-a297.	0.0	0