

Jacco van Rheenen

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

80
papers

7,584
citations

38
h-index

87
g-index

91
ext. papers

9,201
ext. citations

14
avg, IF

5.83
L-index

#	Paper	IF	Citations
80	Intestinal crypt homeostasis results from neutral competition between symmetrically dividing Lgr5 stem cells. <i>Cell</i> , 2010 , 143, 134-44	56.2	1334
79	InVivo imaging reveals extracellular vesicle-mediated phenocopying of metastatic behavior. <i>Cell</i> , 2015 , 161, 1046-1057	56.2	546
78	Collagen-based cell migration models in vitro and in vivo. <i>Seminars in Cell and Developmental Biology</i> , 2009 , 20, 931-41	7.5	453
77	Intestinal crypt homeostasis revealed at single-stem-cell level by in vivo live imaging. <i>Nature</i> , 2014 , 507, 362-365	50.4	341
76	Intravital imaging of metastatic behavior through a mammary imaging window. <i>Nature Methods</i> , 2008 , 5, 1019-21	21.6	320
75	Cortactin regulates cofilin and N-WASp activities to control the stages of invadopodium assembly and maturation. <i>Journal of Cell Biology</i> , 2009 , 186, 571-87	7.3	289
74	Vessel co-option mediates resistance to anti-angiogenic therapy in liver metastases. <i>Nature Medicine</i> , 2016 , 22, 1294-1302	50.5	235
73	Plasticity between Epithelial and Mesenchymal States Unlinks EMT from Metastasis-Enhancing Stem Cell Capacity. <i>Cell Reports</i> , 2016 , 14, 2281-8	10.6	221
72	EGF-induced PIP2 hydrolysis releases and activates cofilin locally in carcinoma cells. <i>Journal of Cell Biology</i> , 2007 , 179, 1247-59	7.3	201
71	Tissue-resident memory CD8+ T cells continuously patrol skin epithelia to quickly recognize local antigen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 19739-44	11.5	186
70	Correcting confocal acquisition to optimize imaging of fluorescence resonance energy transfer by sensitized emission. <i>Biophysical Journal</i> , 2004 , 86, 2517-29	2.9	181
69	Surgical implantation of an abdominal imaging window for intravital microscopy. <i>Nature Protocols</i> , 2013 , 8, 583-94	18.8	180
68	Integrins control motile strategy through a Rho-cofilin pathway. <i>Journal of Cell Biology</i> , 2005 , 169, 515-26	6.3	161
67	PIP2 signaling in lipid domains: a critical re-evaluation. <i>EMBO Journal</i> , 2005 , 24, 1664-73	13	153
66	Reg4+ deep crypt secretory cells function as epithelial niche for Lgr5+ stem cells in colon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E5399-407	11.5	153
65	Cell motility and cytoskeletal regulation in invasion and metastasis. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2007 , 12, 143-52	2.4	148
64	Intravital microscopy through an abdominal imaging window reveals a pre-micrometastasis stage during liver metastasis. <i>Science Translational Medicine</i> , 2012 , 4, 158ra145	17.5	147

63	Imaging hallmarks of cancer in living mice. <i>Nature Reviews Cancer</i> , 2014 , 14, 406-18	31.3	146
62	A versatile toolkit to produce sensitive FRET biosensors to visualize signaling in time and space. <i>Science Signaling</i> , 2013 , 6, rs12	8.8	133
61	Genetic dissection of colorectal cancer progression by orthotopic transplantation of engineered cancer organoids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E2357-E2364	11.5	130
60	Quantifying exosome secretion from single cells reveals a modulatory role for GPCR signaling. <i>Journal of Cell Biology</i> , 2018 , 217, 1129-1142	7.3	124
59	Intravital microscopy: new insights into metastasis of tumors. <i>Journal of Cell Science</i> , 2011 , 124, 299-310	5.3	120
58	Identity and dynamics of mammary stem cells during branching morphogenesis. <i>Nature</i> , 2017 , 542, 313-317	31.4	112
57	Intravital imaging of cancer stem cell plasticity in mammary tumors. <i>Stem Cells</i> , 2013 , 31, 602-6	5.8	103
56	Spatial separation of HLA-DM/HLA-DR interactions within MHC and phagosome-induced immune escape. <i>Immunity</i> , 2005 , 22, 221-33	32.3	101
55	Imaging windows for long-term intravital imaging: General overview and technical insights. <i>Intravital</i> , 2014 , 3, e29917		100
54	A common cofilin activity cycle in invasive tumor cells and inflammatory cells. <i>Journal of Cell Science</i> , 2009 , 122, 305-11	5.3	98
53	Plasticity of Lgr5-Negative Cancer Cells Drives Metastasis in Colorectal Cancer. <i>Cell Stem Cell</i> , 2020 , 26, 569-578.e7	18	82
52	The mechanisms and physiological relevance of glycocalyx degradation in hepatic ischemia/reperfusion injury. <i>Antioxidants and Redox Signaling</i> , 2014 , 21, 1098-118	8.4	73
51	Potential impact of invasive surgical procedures on primary tumor growth and metastasis. <i>Clinical and Experimental Metastasis</i> , 2018 , 35, 319-331	4.7	65
50	A Vulnerability of a Subset of Colon Cancers with Potential Clinical Utility. <i>Cell</i> , 2016 , 165, 317-30	56.2	57
49	A CRISPR-Cas9-based reporter system for single-cell detection of extracellular vesicle-mediated functional transfer of RNA. <i>Nature Communications</i> , 2020 , 11, 1113	17.4	56
48	Studying extracellular vesicle transfer by a Cre-loxP method. <i>Nature Protocols</i> , 2016 , 11, 87-101	18.8	53
47	Intravital FRET imaging of tumor cell viability and mitosis during chemotherapy. <i>PLoS ONE</i> , 2013 , 8, e64029	3.7	48
46	Tissue clonality of dendritic cell subsets and emergency DCpoiesis revealed by multicolor fate mapping of DC progenitors. <i>Science Immunology</i> , 2019 , 4,	28	46

45	Glycosylated extracellular vesicles released by glioblastoma cells are decorated by CCL18 allowing for cellular uptake via chemokine receptor CCR8. <i>Journal of Extracellular Vesicles</i> , 2018 , 7, 1446660	16.4	46
44	A surgical orthotopic organoid transplantation approach in mice to visualize and study colorectal cancer progression. <i>Nature Protocols</i> , 2018 , 13, 235-247	18.8	42
43	Cancer cells copy migratory behavior and exchange signaling networks via extracellular vesicles. <i>EMBO Journal</i> , 2018 , 37,	13	38
42	The death receptor CD95 activates the cofilin pathway to stimulate tumour cell invasion. <i>EMBO Reports</i> , 2011 , 12, 931-7	6.5	38
41	A role for PtdIns(4,5)P2 and PIP5Kalpha in regulating stress-induced apoptosis. <i>Current Biology</i> , 2006 , 16, 1850-6	6.3	37
40	Long-distance modulation of bystander tumor cells by CD8 T cell-secreted IFN- γ . <i>Nature Cancer</i> , 2020 , 1, 291-301	15.4	36
39	Intravital imaging of cell signaling in mice. <i>Intravital</i> , 2012 , 1, 2-10		26
38	Intravital Insights into Heterogeneity, Metastasis, and Therapy Responses. <i>Trends in Cancer</i> , 2016 , 2, 205-216	12.5	25
37	Intravital characterization of tumor cell migration in pancreatic cancer. <i>Intravital</i> , 2016 , 5, e1261773		24
36	Integrin cytoplasmic domain-associated protein-1 (ICAP-1) interacts with the ROCK-I kinase at the plasma membrane. <i>Journal of Cellular Physiology</i> , 2006 , 208, 620-8	7	22
35	Implications of Extracellular Vesicle Transfer on Cellular Heterogeneity in Cancer: What Are the Potential Clinical Ramifications?. <i>Cancer Research</i> , 2016 , 76, 2071-5	10.1	21
34	LIM Kinase Inhibitor Pyr1 Reduces the Growth and Metastatic Load of Breast Cancers. <i>Cancer Research</i> , 2016 , 76, 3541-52	10.1	20
33	Sequential intravital imaging reveals in vivo dynamics of pancreatic tissue transplanted under the kidney capsule in mice. <i>Diabetologia</i> , 2016 , 59, 2387-2392	10.3	19
32	If you don't look, you won't see: intravital multiphoton imaging of primary and metastatic breast cancer. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2012 , 17, 125-9	2.4	19
31	Intravital imaging reveals conversion between distinct tumor vascular morphologies and localized vascular response to Sunitinib. <i>Intravital</i> , 2013 , 2, e24790		18
30	Targeting dormant tumor cells to prevent cancer recurrence. <i>FEBS Journal</i> , 2021 , 288, 6286-6303	5.7	18
29	Inflammation-Sensitive Myosin-X Functionally Supports Leukocyte Extravasation by Cdc42-Mediated ICAM-1-Rich Endothelial Filopodia Formation. <i>Journal of Immunology</i> , 2018 , 200, 1790-1801	5.3	17
28	Antigen retrieval and clearing for whole-organ immunofluorescence by FLASH. <i>Nature Protocols</i> , 2021 , 16, 239-262	18.8	17

27	Calorie Restriction Increases the Number of Competing Stem Cells and Decreases Mutation Retention in the Intestine. <i>Cell Reports</i> , 2020 , 32, 107937	10.6	15
26	Fsp1-Mediated Lineage Tracing Fails to Detect the Majority of Disseminating Cells Undergoing EMT. <i>Cell Reports</i> , 2019 , 29, 2565-2569.e3	10.6	15
25	Stem cell lineage survival as a noisy competition for niche access. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 16969-16975	11.5	14
24	Distinct contributions of partial and full EMT to breast cancer malignancy. <i>Developmental Cell</i> , 2021 , ,	10.2	14
23	From good to bad: Intravital imaging of the hijack of physiological processes by cancer cells. <i>Developmental Biology</i> , 2017 , 428, 328-337	3.1	14
22	C/EBP β is crucial determinant of epithelial maintenance by preventing epithelial-to-mesenchymal transition. <i>Nature Communications</i> , 2020 , 11, 785	17.4	13
21	Real-time intravital imaging of cancer models. <i>Clinical and Translational Oncology</i> , 2011 , 13, 848-54	3.6	13
20	Tissue clearing to examine tumour complexity in three dimensions. <i>Nature Reviews Cancer</i> , 2021 , 21, 718-730	31.3	12
19	Epithelial-to-Mesenchymal Transition in the Light of Plasticity and Hybrid E/M States. <i>Journal of Clinical Medicine</i> , 2021 , 10,	5.1	10
18	Intravital Imaging and Photoswitching in Tumor Invasion and Intravasation Microenvironments. <i>Microscopy Today</i> , 2010 , 18, 34-37	0.4	8
17	Phenotypic plasticity underlies local invasion and distant metastasis in colon cancer. <i>ELife</i> , 2021 , 10,	8.9	7
16	Poor perfusion of the microvasculature in peritoneal metastases of ovarian cancer. <i>Clinical and Experimental Metastasis</i> , 2020 , 37, 293-304	4.7	6
15	Active elimination of intestinal cells drives oncogenic growth in organoids. <i>Cell Reports</i> , 2021 , 36, 109307	10.6	6
14	Cellular Plasticity during Metastasis: New Insights Provided by Intravital Microscopy. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2020 , 10,	5.4	5
13	Intravital microscopy to illuminate cell state plasticity during metastasis. <i>Current Opinion in Cell Biology</i> , 2021 , 72, 28-35	9	5
12	Investigation into the mechanism regulating MRP localization. <i>Experimental Cell Research</i> , 2008 , 314, 330-41	4.2	4
11	An Intravital Microscopy Toolbox to Study Mammary Gland Dynamics from Cellular Level to Organ Scale. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2021 , 26, 9-27	2.4	4
10	Single-cell analysis of regions of interest (SCARI) using a photosensitive tag. <i>Nature Chemical Biology</i> , 2021 , 17, 1139-1147	11.7	3

9	RASSF1C oncogene elicits amoeboid invasion, cancer stemness, and extracellular vesicle release via a SRC/Rho axis. <i>EMBO Journal</i> , 2021 , 40, e107680	13	3
8	Nano-imaging of membrane topography affects interpretations in cell biology. <i>Nature Methods</i> , 2010 , 7, 486	21.6	2
7	Scratch-induced partial skin wounds re-epithelialize by sheets of independently migrating keratinocytes. <i>Life Science Alliance</i> , 2021 , 4,	5.8	2
6	Cellular protection mechanisms that minimise accumulation of mutations in intestinal tissue. <i>Swiss Medical Weekly</i> , 2017 , 147, w14539	3.1	2
5	An unanticipated tumor-suppressive role of the SUMO pathway in the intestine unveiled by Ubc9 haploinsufficiency. <i>Oncogene</i> , 2020 , 39, 6692-6703	9.2	2
4	Tissue architecture in tumor initiation and progression.. <i>Trends in Cancer</i> , 2022 ,	12.5	2
3	Regulation of a progenitor gene program by SOX4 is essential for mammary tumor proliferation. <i>Oncogene</i> , 2021 , 40, 6343-6353	9.2	1
2	Generation of mixed murine organoids to model cellular interactions.. <i>STAR Protocols</i> , 2021 , 2, 100997	1.4	0
1	Dynamic Visualization of TGF- β /SMAD3 Transcriptional Responses in Single Living Cells. <i>Cancers</i> , 2022 , 14, 2508	6.6	0