

Jacco van Rheenen

List of Publications by Year in descending order

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85
papers

10,325
citations

61984

43
h-index

48315

88
g-index

91
all docs

91
docs citations

91
times ranked

15985
citing authors

#	ARTICLE	IF	CITATIONS
1	Intestinal Crypt Homeostasis Results from Neutral Competition between Symmetrically Dividing Lgr5 Stem Cells. <i>Cell</i> , 2010, 143, 134-144.	28.9	1,679
2	In Vivo Imaging Reveals Extracellular Vesicle-Mediated Phenocopying of Metastatic Behavior. <i>Cell</i> , 2015, 161, 1046-1057.	28.9	704
3	Collagen-based cell migration models in vitro and in vivo. <i>Seminars in Cell and Developmental Biology</i> , 2009, 20, 931-941.	5.0	558
4	Intestinal crypt homeostasis revealed at single-stem-cell level by in vivo live imaging. <i>Nature</i> , 2014, 507, 362-365.	27.8	431
5	Intravital imaging of metastatic behavior through a mammary imaging window. <i>Nature Methods</i> , 2008, 5, 1019-1021.	19.0	364
6	Vessel co-option mediates resistance to anti-angiogenic therapy in liver metastases. <i>Nature Medicine</i> , 2016, 22, 1294-1302.	30.7	342
7	Cortactin regulates cofilin and N-WASp activities to control the stages of invadopodium assembly and maturation. <i>Journal of Cell Biology</i> , 2009, 186, 571-587.	5.2	316
8	Plasticity between Epithelial and Mesenchymal States Unlinks EMT from Metastasis-Enhancing Stem Cell Capacity. <i>Cell Reports</i> , 2016, 14, 2281-2288.	6.4	273
9	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.	7.1	232
10	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, 19739-19744.	7.1	230
11	Quantifying exosome secretion from single cells reveals a modulatory role for GPCR signaling. <i>Journal of Cell Biology</i> , 2018, 217, 1129-1142.	5.2	227
12	EGF-induced PIP2 hydrolysis releases and activates cofilin locally in carcinoma cells. <i>Journal of Cell Biology</i> , 2007, 179, 1247-1259.	5.2	217
13	Surgical implantation of an abdominal imaging window for intravital microscopy. <i>Nature Protocols</i> , 2013, 8, 583-594.	12.0	217
14	Correcting Confocal Acquisition to Optimize Imaging of Fluorescence Resonance Energy Transfer by Sensitized Emission. <i>Biophysical Journal</i> , 2004, 86, 2517-2529.	0.5	213
15	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.	7.1	198
16	A Versatile Toolkit to Produce Sensitive FRET Biosensors to Visualize Signaling in Time and Space. <i>Science Signaling</i> , 2013, 6, rs12.	3.6	192
17	Plasticity of Lgr5-Negative Cancer Cells Drives Metastasis in Colorectal Cancer. <i>Cell Stem Cell</i> , 2020, 26, 569-578.e7.	11.1	180
18	Intravital Microscopy Through an Abdominal Imaging Window Reveals a Pre-Micrometastasis Stage During Liver Metastasis. <i>Science Translational Medicine</i> , 2012, 4, 158ra145.	12.4	178

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19	Integrins control motile strategy through a Rho-cofilin pathway. <i>Journal of Cell Biology</i> , 2005, 169, 515-526.	5.2	175
20	PIP2 signaling in lipid domains: a critical re-evaluation. <i>EMBO Journal</i> , 2005, 24, 1664-1673.	7.8	167
21	Imaging hallmarks of cancer in living mice. <i>Nature Reviews Cancer</i> , 2014, 14, 406-418.	28.4	166
22	Distinct contributions of partial and full EMT to breast cancer malignancy. <i>Developmental Cell</i> , 2021, 56, 3203-3221.e11.	7.0	160
23	Cell Motility and Cytoskeletal Regulation in Invasion and Metastasis. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2007, 12, 143-152.	2.7	157
24	Identity and dynamics of mammary stem cells during branching morphogenesis. <i>Nature</i> , 2017, 542, 313-317.	27.8	157
25	Imaging windows for long-term intravital imaging. <i>Intravital</i> , 2014, 3, e29917.	2.0	139
26	Intravital microscopy: new insights into metastasis of tumors. <i>Journal of Cell Science</i> , 2011, 124, 299-310.	2.0	132
27	Potential impact of invasive surgical procedures on primary tumor growth and metastasis. <i>Clinical and Experimental Metastasis</i> , 2018, 35, 319-331.	3.3	130
28	Brief Report: Intravital Imaging of Cancer Stem Cell Plasticity in Mammary Tumors. <i>Stem Cells</i> , 2013, 31, 602-606.	3.2	128
29	Spatial Separation of HLA-DM/HLA-DR Interactions within MHC and Phagosome-Induced Immune Escape. <i>Immunity</i> , 2005, 22, 221-233.	14.3	113
30	A common cofilin activity cycle in invasive tumor cells and inflammatory cells. <i>Journal of Cell Science</i> , 2009, 122, 305-311.	2.0	112
31	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.	12.8	99
32	Tissue clonality of dendritic cell subsets and emergency DCpoiesis revealed by multicolor fate mapping of DC progenitors. <i>Science Immunology</i> , 2019, 4, .	11.9	93
33	The Mechanisms and Physiological Relevance of Glycocalyx Degradation in Hepatic Ischemia/Reperfusion Injury. <i>Antioxidants and Redox Signaling</i> , 2014, 21, 1098-1118.	5.4	91
34	Long-distance modulation of bystander tumor cells by CD8+ T-cell-secreted IFN- γ . <i>Nature Cancer</i> , 2020, 1, 291-301.	18.2	89
35	Studying extracellular vesicle transfer by a Cre-loxP method. <i>Nature Protocols</i> , 2016, 11, 87-101.	12.0	78
36	PHGDH heterogeneity potentiates cancer cell dissemination and metastasis. <i>Nature</i> , 2022, 605, 747-753.	27.8	77

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37	A surgical orthotopic organoid transplantation approach in mice to visualize and study colorectal cancer progression. <i>Nature Protocols</i> , 2018, 13, 235-247.	12.0	71
38	A Vulnerability of a Subset of Colon Cancers with Potential Clinical Utility. <i>Cell</i> , 2016, 165, 317-330.	28.9	70
39	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.	12.2	64
40	Cancer cells copy migratory behavior and exchange signaling networks via extracellular vesicles. <i>EMBO Journal</i> , 2018, 37, .	7.8	58
41	Targeting dormant tumor cells to prevent cancer recurrence. <i>FEBS Journal</i> , 2021, 288, 6286-6303.	4.7	54
42	Intravital FRET Imaging of Tumor Cell Viability and Mitosis during Chemotherapy. <i>PLoS ONE</i> , 2013, 8, e64029.	2.5	52
43	Antigen retrieval and clearing for whole-organ immunofluorescence by FLASH. <i>Nature Protocols</i> , 2021, 16, 239-262.	12.0	50
44	Tissue clearing to examine tumour complexity in three dimensions. <i>Nature Reviews Cancer</i> , 2021, 21, 718-730.	28.4	50
45	The death receptor CD95 activates the cofilin pathway to stimulate tumour cell invasion. <i>EMBO Reports</i> , 2011, 12, 931-937.	4.5	46
46	A Role for PtdIns(4,5)P2 and PIP5K1 α in Regulating Stress-Induced Apoptosis. <i>Current Biology</i> , 2006, 16, 1850-1856.	3.9	44
47	Phenotypic plasticity underlies local invasion and distant metastasis in colon cancer. <i>ELife</i> , 2021, 10, .	6.0	38
48	Calorie Restriction Increases the Number of Competing Stem Cells and Decreases Mutation Retention in the Intestine. <i>Cell Reports</i> , 2020, 32, 107937.	6.4	36
49	Intravital characterization of tumor cell migration in pancreatic cancer. <i>Intravital</i> , 2016, 5, e1261773.	2.0	31
50	Tissue architecture in tumor initiation and progression. <i>Trends in Cancer</i> , 2022, 8, 494-505.	7.4	31
51	Intravital imaging of cell signaling in mice. <i>Intravital</i> , 2012, 1, 2-10.	2.0	30
52	C/EBP β is crucial determinant of epithelial maintenance by preventing epithelial-to-mesenchymal transition. <i>Nature Communications</i> , 2020, 11, 785.	12.8	30
53	Epithelial-to-Mesenchymal Transition in the Light of Plasticity and Hybrid E/M States. <i>Journal of Clinical Medicine</i> , 2021, 10, 2403.	2.4	30
54	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.	7.1	29

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55	LIM Kinase Inhibitor Pyr1 Reduces the Growth and Metastatic Load of Breast Cancers. <i>Cancer Research</i> , 2016, 76, 3541-3552.	0.9	28
56	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.	0.8	28
57	Intravital Insights into Heterogeneity, Metastasis, and Therapy Responses. <i>Trends in Cancer</i> , 2016, 2, 205-216.	7.4	27
58	Fsp1-Mediated Lineage Tracing Fails to Detect the Majority of Disseminating Cells Undergoing EMT. <i>Cell Reports</i> , 2019, 29, 2565-2569.e3.	6.4	27
59	Implications of Extracellular Vesicle Transfer on Cellular Heterogeneity in Cancer: What Are the Potential Clinical Ramifications?. <i>Cancer Research</i> , 2016, 76, 2071-2075.	0.9	26
60	How the COVID-19 pandemic highlights the necessity of animal research. <i>Current Biology</i> , 2020, 30, R1014-R1018.	3.9	26
61	Retrograde movements determine effective stem cell numbers in the intestine. <i>Nature</i> , 2022, 607, 548-554.	27.8	26
62	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, 620-628.	4.1	24
63	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, 125-129.	2.7	22
64	Sequential intravital imaging reveals in vivo dynamics of pancreatic tissue transplanted under the kidney capsule in mice. <i>Diabetologia</i> , 2016, 59, 2387-2392.	6.3	21
65	Active elimination of intestinal cells drives oncogenic growth in organoids. <i>Cell Reports</i> , 2021, 36, 109307.	6.4	19
66	Poor perfusion of the microvasculature in peritoneal metastases of ovarian cancer. <i>Clinical and Experimental Metastasis</i> , 2020, 37, 293-304.	3.3	19
67	Intravital imaging reveals conversion between distinct tumor vascular morphologies and localized vascular response to Sunitinib. <i>Intravital</i> , 2013, 2, e24790.	2.0	18
68	From good to bad: Intravital imaging of the hijack of physiological processes by cancer cells. <i>Developmental Biology</i> , 2017, 428, 328-337.	2.0	18
69	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.	2.7	16
70	Scratch-induced partial skin wounds re-epithelialize by sheets of independently migrating keratinocytes. <i>Life Science Alliance</i> , 2021, 4, e202000765.	2.8	14
71	Real-time intravital imaging of cancer models. <i>Clinical and Translational Oncology</i> , 2011, 13, 848-854.	2.4	13
72	Single-cell analysis of regions of interest (SCARI) using a photosensitive tag. <i>Nature Chemical Biology</i> , 2021, 17, 1139-1147.	8.0	13

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73	RASSF1C oncogene elicits amoeboid invasion, cancer stemness, and extracellular vesicle release via a SRC/Rho axis. <i>EMBO Journal</i> , 2021, 40, e107680.	7.8	12
74	Intravital Imaging and Photoswitching in Tumor Invasion and Intravasation Microenvironments. <i>Microscopy Today</i> , 2010, 18, 34-37.	0.3	10
75	Cellular Plasticity during Metastasis: New Insights Provided by Intravital Microscopy. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2020, 10, a037267.	6.2	10
76	An unanticipated tumor-suppressive role of the SUMO pathway in the intestine unveiled by Ubc9 haploinsufficiency. <i>Oncogene</i> , 2020, 39, 6692-6703.	5.9	10
77	Regulation of a progenitor gene program by SOX4 is essential for mammary tumor proliferation. <i>Oncogene</i> , 2021, 40, 6343-6353.	5.9	9
78	Intravital microscopy to illuminate cell state plasticity during metastasis. <i>Current Opinion in Cell Biology</i> , 2021, 72, 28-35.	5.4	9
79	Dynamic Visualization of TGF- β 2/SMAD3 Transcriptional Responses in Single Living Cells. <i>Cancers</i> , 2022, 14, 2508.	3.7	7
80	Epithelial-to-Mesenchymal Transition Drives Invasiveness of Breast Cancer Brain Metastases. <i>Cancers</i> , 2022, 14, 3115.	3.7	6
81	Longitudinal Intravital Microscopy Using a Mammary Imaging Window with Replaceable Lid. <i>Journal of Visualized Experiments</i> , 2022, , .	0.3	5
82	Investigation into the mechanism regulating MRP localization. <i>Experimental Cell Research</i> , 2008, 314, 330-341.	2.6	4
83	Nano-imaging of membrane topography affects interpretations in cell biology. <i>Nature Methods</i> , 2010, 7, 486-486.	19.0	4
84	Cellular protection mechanisms that minimise accumulation of mutations in intestinal tissue. <i>Swiss Medical Weekly</i> , 2017, 147, w14539.	1.6	4
85	Generation of mixed murine organoids to model cellular interactions. <i>STAR Protocols</i> , 2021, 2, 100997.	1.2	3