

Janusz Rak

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.

107
papers

7,126
citations

42
h-index

84
g-index

109
ext. papers

8,276
ext. citations

8.3
avg, IF

6.15
L-index

#	Paper	IF	Citations
107	Intercellular transfer of the oncogenic receptor EGFRvIII by microvesicles derived from tumour cells. <i>Nature Cell Biology</i> , 2008 , 10, 619-24	23.4	1405
106	Endothelial expression of autocrine VEGF upon the uptake of tumor-derived microvesicles containing oncogenic EGFR. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 3794-9	11.5	531
105	Microvesicles as mediators of intercellular communication in cancer--the emerging science of cellular debris <i>Seminars in Immunopathology</i> , 2011 , 33, 455-67	12	391
104	Microvesicles: messengers and mediators of tumor progression. <i>Cell Cycle</i> , 2009 , 8, 2014-8	4.7	339
103	A reference map of the human binary protein interactome. <i>Nature</i> , 2020 , 580, 402-408	50.4	269
102	Microparticles in cancer. <i>Seminars in Thrombosis and Hemostasis</i> , 2010 , 36, 888-906	5.3	228
101	An electrochemical clamp assay for direct, rapid analysis of circulating nucleic acids in serum. <i>Nature Chemistry</i> , 2015 , 7, 569-75	17.6	198
100	Oncogenes and angiogenesis: signaling three-dimensional tumor growth. <i>Journal of Investigative Dermatology Symposium Proceedings</i> , 2000 , 5, 24-33	1.1	159
99	Tumor-derived tissue factor activates coagulation and enhances thrombosis in a mouse xenograft model of human pancreatic cancer. <i>Blood</i> , 2012 , 119, 5543-52	2.2	148
98	Extracellular vesicles--vehicles that spread cancer genes. <i>BioEssays</i> , 2012 , 34, 489-97	4.1	130
97	Extracellular vesicles - biomarkers and effectors of the cellular interactome in cancer. <i>Frontiers in Pharmacology</i> , 2013 , 4, 21	5.6	129
96	Oncogenes, trousseau syndrome, and cancer-related changes in the coagulome of mice and humans. <i>Cancer Research</i> , 2006 , 66, 10643-6	10.1	124
95	Oncogenic ras-driven cancer cell vesiculation leads to emission of double-stranded DNA capable of interacting with target cells. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 451, 295-301	3.4	123
94	Cancer cells induced to express mesenchymal phenotype release exosome-like extracellular vesicles carrying tissue factor. <i>Journal of Biological Chemistry</i> , 2012 , 287, 43565-72	5.4	111
93	Oncogenic epidermal growth factor receptor up-regulates multiple elements of the tissue factor signaling pathway in human glioma cells. <i>Blood</i> , 2010 , 116, 815-8	2.2	110
92	Tissue factor in cancer and angiogenesis: the molecular link between genetic tumor progression, tumor neovascularization, and cancer coagulopathy. <i>Seminars in Thrombosis and Hemostasis</i> , 2006 , 32, 54-70	5.3	99
91	Oncosomes - large and small: what are they, where they came from?. <i>Journal of Extracellular Vesicles</i> , 2016 , 5, 33109	16.4	97

90	New technologies for the detection of circulating tumour cells. <i>British Medical Bulletin</i> , 2010 , 94, 49-64	5.4	89
89	Oncogenic extracellular vesicles in brain tumor progression. <i>Frontiers in Physiology</i> , 2012 , 3, 294	4.6	86
88	Extracellular vesicle communication pathways as regulatory targets of oncogenic transformation. <i>Seminars in Cell and Developmental Biology</i> , 2017 , 67, 11-22	7.5	81
87	Tissue factor expression provokes escape from tumor dormancy and leads to genomic alterations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 3544-9	11.5	78
86	Mapping Subpopulations of Cancer Cell-Derived Extracellular Vesicles and Particles by Nano-Flow Cytometry. <i>ACS Nano</i> , 2019 , 13, 10499-10511	16.7	76
85	Inhibition of oncogenic epidermal growth factor receptor kinase triggers release of exosome-like extracellular vesicles and impacts their phosphoprotein and DNA content. <i>Journal of Biological Chemistry</i> , 2015 , 290, 24534-46	5.4	76
84	Extracellular vesicles in the biology of brain tumour stem cells--Implications for inter-cellular communication, therapy and biomarker development. <i>Seminars in Cell and Developmental Biology</i> , 2015 , 40, 17-26	7.5	74
83	SMARCA4 loss is synthetic lethal with CDK4/6 inhibition in non-small cell lung cancer. <i>Nature Communications</i> , 2019 , 10, 557	17.4	72
82	The Impact of Oncogenic EGFRvIII on the Proteome of Extracellular Vesicles Released from Glioblastoma Cells. <i>Molecular and Cellular Proteomics</i> , 2018 , 17, 1948-1964	7.6	72
81	Contribution of host-derived tissue factor to tumor neovascularization. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008 , 28, 1975-81	9.4	71
80	Interleukin-6 dependent induction of the cyclin dependent kinase inhibitor p21WAF1/CIP1 is lost during progression of human malignant melanoma. <i>Oncogene</i> , 1999 , 18, 1023-32	9.2	68
79	Qualitative changes in the proteome of extracellular vesicles accompanying cancer cell transition to mesenchymal state. <i>Experimental Cell Research</i> , 2013 , 319, 2747-57	4.2	64
78	Divergent evolution of temozolomide resistance in glioblastoma stem cells is reflected in extracellular vesicles and coupled with radiosensitization. <i>Neuro-Oncology</i> , 2018 , 20, 236-248	1	64
77	Oncogenes and tumor angiogenesis: the question of vascular "supply" and vascular "demand". <i>Seminars in Cancer Biology</i> , 2004 , 14, 93-104	12.7	58
76	Extracellular vesicles, tissue factor, cancer and thrombosis - discussion themes of the ISEV 2014 Educational Day. <i>Journal of Extracellular Vesicles</i> , 2015 , 4, 26901	16.4	57
75	Barriers to horizontal cell transformation by extracellular vesicles containing oncogenic H-ras. <i>Oncotarget</i> , 2016 , 7, 51991-52002	3.3	57
74	Extracellular Vesicles in Brain Tumor Progression. <i>Cellular and Molecular Neurobiology</i> , 2016 , 36, 383-407	4.6	54
73	Oncogenes and Angiogenesis: down-regulation of thrombospondin-1 in normal fibroblasts exposed to factors from cancer cells harboring mutant ras. <i>Cancer Research</i> , 2005 , 65, 8878-86	10.1	52

72	Contrasting effects of VEGF gene disruption in embryonic stem cell-derived versus oncogene-induced tumors. <i>EMBO Journal</i> , 2003 , 22, 4091-102	13	51
71	Anthracycline-containing chemotherapy causes long-term impairment of mitochondrial respiration and increased reactive oxygen species release in skeletal muscle. <i>Scientific Reports</i> , 2015 , 5, 8717	4.9	48
70	Tissue factor in tumour progression. <i>Best Practice and Research in Clinical Haematology</i> , 2009 , 22, 71-83	4.2	48
69	Oncogenes as regulators of tissue factor expression in cancer: implications for tumor angiogenesis and anti-cancer therapy. <i>Seminars in Thrombosis and Hemostasis</i> , 2004 , 30, 21-30	5.3	46
68	Tissue factor and cancer. <i>Pathophysiology of Haemostasis and Thrombosis: International Journal on Haemostasis and Thrombosis Research</i> , 2008 , 36, 160-76		45
67	Oncogenes and the coagulation system--forces that modulate dormant and aggressive states in cancer. <i>Thrombosis Research</i> , 2014 , 133 Suppl 2, S1-9	8.2	44
66	Tissue factor in cancer. <i>Current Opinion in Hematology</i> , 2008 , 15, 522-8	3.3	43
65	CDK4/6 inhibitors target SMARCA4-determined cyclin D1 deficiency in hypercalcemic small cell carcinoma of the ovary. <i>Nature Communications</i> , 2019 , 10, 558	17.4	42
64	The role of tumor-and host-related tissue factor pools in oncogene-driven tumor progression. <i>Thrombosis Research</i> , 2007 , 120 Suppl 2, S82-91	8.2	38
63	Impact of oncogenes and tumor suppressor genes on deregulation of hemostasis and angiogenesis in cancer. <i>Cancer and Metastasis Reviews</i> , 2000 , 19, 93-6	9.6	38
62	Role of the tissue factor pathway in the biology of tumor initiating cells. <i>Thrombosis Research</i> , 2010 , 125 Suppl 2, S44-50	8.2	36
61	Genetic pathways linking hemostasis and cancer. <i>Thrombosis Research</i> , 2012 , 129 Suppl 1, S22-9	8.2	34
60	Tissue factor and cancer stem cells: is there a linkage?. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2009 , 29, 2005-14	9.4	33
59	Leukocytes as a reservoir of circulating oncogenic DNA and regulatory targets of tumor-derived extracellular vesicles. <i>Journal of Thrombosis and Haemostasis</i> , 2018 , 16, 1800-1813	15.4	32
58	Is cancer stem cell a cell, or a multicellular unit capable of inducing angiogenesis?. <i>Medical Hypotheses</i> , 2006 , 66, 601-4	3.8	31
57	Selection of Fluorescent, Bioluminescent, and Radioactive Tracers to Accurately Reflect Extracellular Vesicle Biodistribution. <i>ACS Nano</i> , 2021 , 15, 3212-3227	16.7	31
56	PML-RARa modulates the vascular signature of extracellular vesicles released by acute promyelocytic leukemia cells. <i>Angiogenesis</i> , 2016 , 19, 25-38	10.6	30
55	Molecular subtypes and differentiation programmes of glioma stem cells as determinants of extracellular vesicle profiles and endothelial cell-stimulating activities. <i>Journal of Extracellular Vesicles</i> , 2018 , 7, 1490144	16.4	30

54	Comparative transcriptomic analysis of human and Drosophila extracellular vesicles. <i>Scientific Reports</i> , 2016 , 6, 27680	4.9	29
53	Atherosclerosis and vascular aging as modifiers of tumor progression, angiogenesis, and responsiveness to therapy. <i>American Journal of Pathology</i> , 2007 , 171, 1342-51	5.8	29
52	Cancer: Organ-seeking vesicles. <i>Nature</i> , 2015 , 527, 312-4	50.4	28
51	Tissue Factor Regulation by miR-520g in Primitive Neuronal Brain Tumor Cells: A Possible Link between Oncomirs and the Vascular Tumor Microenvironment. <i>American Journal of Pathology</i> , 2016 , 186, 446-59	5.8	28
50	Brain neoplasms and coagulation. <i>Seminars in Thrombosis and Hemostasis</i> , 2013 , 39, 881-95	5.3	27
49	The dormant in vivo phenotype of early stage primary human melanoma: termination by overexpression of vascular endothelial growth factor. <i>Angiogenesis</i> , 1998 , 2, 203-17	10.6	25
48	Vascular determinants of cancer stem cell dormancy--do age and coagulation system play a role?. <i>Apmis</i> , 2008 , 116, 660-76	3.4	23
47	Extracellular Vesicles as Conduits of Non-Coding RNA Emission and Intercellular Transfer in Brain Tumors. <i>Non-coding RNA</i> , 2018 , 5,	7.1	23
46	Extracellular vesicles as prospective carriers of oncogenic protein signatures in adult and paediatric brain tumours. <i>Proteomics</i> , 2013 , 13, 1595-607	4.8	22
45	Modulation of the oncogene-dependent tissue factor expression by kinase suppressor of ras 1. <i>Thrombosis Research</i> , 2010 , 126, e6-10	8.2	20
44	Diverse roles of tissue factor-expressing cell subsets in tumor progression. <i>Seminars in Thrombosis and Hemostasis</i> , 2008 , 34, 170-81	5.3	20
43	Oncogenes and Clotting Factors: The Emerging Role of Tumor Cell Genome and Epigenome in Cancer-Associated Thrombosis. <i>Seminars in Thrombosis and Hemostasis</i> , 2019 , 45, 373-384	5.3	19
42	Age-related properties of the tumour vasculature in renal cell carcinoma. <i>BJU International</i> , 2011 , 107, 416-24	5.6	19
41	Oncogenic Regulation of Extracellular Vesicle Proteome and Heterogeneity. <i>Proteomics</i> , 2019 , 19, e1800189	4.1	19
40	The contribution of tumor and host tissue factor expression to oncogene-driven gliomagenesis. <i>Biochemical and Biophysical Research Communications</i> , 2014 , 454, 262-8	3.4	16
39	Plasmonic nanobowtiefluidic device for sensitive detection of glioma extracellular vesicles by Raman spectrometry. <i>Lab on A Chip</i> , 2021 , 21, 855-866	7.2	16
38	Genetic basis of thrombosis in cancer. <i>Seminars in Thrombosis and Hemostasis</i> , 2014 , 40, 284-95	5.3	15
37	Human multipotent mesenchymal stromal cells cytokine priming promotes RAB27B-regulated secretion of small extracellular vesicles with immunomodulatory cargo. <i>Stem Cell Research and Therapy</i> , 2020 , 11, 539	8.3	13

36	Single cell coagulomes as constituents of the oncogene-driven coagulant phenotype in brain tumours. <i>Thrombosis Research</i> , 2018 , 164 Suppl 1, S136-S142	8.2	13
35	Regulation of tissue factor and angiogenesis-related genes by changes in cell shape. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 337, 1267-75	3.4	13
34	A reference map of the human protein interactome		13
33	Glioblastoma cell populations with distinct oncogenic programs release podoplanin as procoagulant extracellular vesicles. <i>Blood Advances</i> , 2021 , 5, 1682-1694	7.8	13
32	Biological basis of personalized anticoagulation in cancer: oncogene and oncomir networks as putative regulators of coagulopathy. <i>Thrombosis Research</i> , 2016 , 140 Suppl 1, S37-43	8.2	12
31	Autoantibodies against the cell surface-associated chaperone GRP78 stimulate tumor growth via tissue factor. <i>Journal of Biological Chemistry</i> , 2017 , 292, 21180-21192	5.4	11
30	Primary Thromboprophylaxis in Pancreatic Cancer Patients: Why Clinical Practice Guidelines Should Be Implemented. <i>Cancers</i> , 2020 , 12,	6.6	11
29	Extracellular vesicles from genetically unstable, oncogene-driven cancer cells trigger micronuclei formation in endothelial cells. <i>Scientific Reports</i> , 2020 , 10, 8532	4.9	10
28	Ageing-related responses to antiangiogenic effects of sunitinib in atherosclerosis-prone mice. <i>Mechanisms of Ageing and Development</i> , 2014 , 140, 13-22	5.6	8
27	Inhibition of tissue factor signaling in breast tumour xenografts induces widespread changes in the microRNA expression profile. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 494, 700-705	3.4	8
26	Brain neoplasms and coagulation-lessons from heterogeneity. <i>Rambam Maimonides Medical Journal</i> , 2014 , 5, e0030	1.8	8
25	Genetic and epigenetic regulation of cancer coagulome - lessons from heterogeneity of cancer cell populations. <i>Thrombosis Research</i> , 2020 , 191 Suppl 1, S99-S105	8.2	8
24	Impact of host ageing on the metastatic phenotype. <i>Mechanisms of Ageing and Development</i> , 2013 , 134, 118-29	5.6	7
23	SMARCB1 loss induces druggable cyclin D1 deficiency via upregulation of MIR17HG in atypical teratoid rhabdoid tumors. <i>Journal of Pathology</i> , 2020 , 252, 77-87	9.4	6
22	Illustrated State-of-the-Art Capsules of the ISTH 2019 Congress in Melbourne, Australia. <i>Research and Practice in Thrombosis and Haemostasis</i> , 2019 , 3, 431-497	5.1	5
21	Coagulome and the tumor microenvironment: an actionable interplay.. <i>Trends in Cancer</i> , 2022 ,	12.5	5
20	Oncogenic RAS drives the CRAF-dependent extracellular vesicle uptake mechanism coupled with metastasis. <i>Journal of Extracellular Vesicles</i> , 2021 , 10, e12091	16.4	5
19	Isolation of Extracellular Vesicles for Proteomic Profiling. <i>Methods in Molecular Biology</i> , 2021 , 2261, 193-206	20.6	5

18	Age-related variations in gene expression patterns of renal cell carcinoma. <i>Urologic Oncology: Seminars and Original Investigations</i> , 2019 , 37, 166-175	2.8	4
17	Leukobiopsy - A Possible New Liquid Biopsy Platform for Detecting Oncogenic Mutations. <i>Frontiers in Pharmacology</i> , 2019 , 10, 1608	5.6	3
16	L(C3)icensing of exosomes for RNA export. <i>Nature Cell Biology</i> , 2020 , 22, 137-139	23.4	3
15	Nanofluidics for Simultaneous Size and Charge Profiling of Extracellular Vesicles. <i>Nano Letters</i> , 2021 , 21, 4895-4902	11.5	3
14	SMARCA4/2 loss inhibits chemotherapy-induced apoptosis by restricting IP3R3-mediated Ca flux to mitochondria. <i>Nature Communications</i> , 2021 , 12, 5404	17.4	3
13	Cell Surface GRP78: A Novel Regulator of Tissue Factor Procoagulant Activity 2018 , 63-85		2
12	Oncogene-dependent survival of highly transformed cancer cells under conditions of extreme centrifugal force - implications for studies on extracellular vesicles. <i>Cellular and Molecular Biology Letters</i> , 2015 , 20, 117-29	8.1	2
11	VEGF-D(ilated) lymphatics as gateways to metastasis. <i>Cancer Cell</i> , 2012 , 21, 139-40	24.3	2
10	Oncogene-Driven Hemostatic Changes in Cancer. <i>Cancer Investigation</i> , 2009 , 27, 28-35	2.1	2
9	Studies on the Tumor Vasculature and Coagulant Microenvironment. <i>Methods in Molecular Biology</i> , 2016 , 1458, 39-58	1.4	2
8	Extracellular Vesicle Mediated Vascular Pathology in Glioblastoma. <i>Sub-Cellular Biochemistry</i> , 2021 , 97, 247-273	5.5	2
7	Mek activity is required for ErbB2 expression in breast cancer cells detached from the extracellular matrix. <i>Oncotarget</i> , 2017 , 8, 105383-105396	3.3	1
6	RAS Oncogenes and Tumor-Vascular Interface 2010 , 133-165		1
5	Angiogenesis and Lymphangiogenesis in Colon Cancer Metastasis. <i>Cancer Metastasis - Biology and Treatment</i> , 2010 , 243-287		1
4	Cancer genes and blood clots. <i>Blood</i> , 2021 , 137, 1996-1997	2.2	1
3	Extracellular Vesicle Proteomes Shed Light on the Evolutionary, Interactive, and Functional Divergence of Their Biogenesis Mechanisms. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 734950	5.7	1
2	Cancer genetic alterations and risk of venous thromboembolism. <i>Thrombosis Research</i> , 2022 , 213, S29-S34	3.2	0
1	Blood coagulation and cancer genes. <i>Best Practice and Research in Clinical Haematology</i> , 2022 , 101349	4.2	0

