Takahiro Ochiya

List of Publications by Year
in descending order

343 papers	35,244 citations	81 h-index 5896	177 g-index 3915
360 all docs	360 docs citations	360 times ranked	40635 citing authors

#	Article	IF	Citations
1	Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. Journal of Extracellular Vesicles, 2018, 7, 1535750.	12.2	6,961
2	Secretory Mechanisms and Intercellular Transfer of MicroRNAs in Living Cells. Journal of Biological Chemistry, 2010, 285, 17442-17452.	3.4	1,657
3	Systemically Injected Exosomes Targeted to EGFR Deliver Antitumor MicroRNA to Breast Cancer Cells. Molecular Therapy, 2013, 21, 185-191.	8.2	1,314
4	Circulating microRNA in body fluid: a new potential biomarker for cancer diagnosis and prognosis. Cancer Science, 2010, 101, 2087-2092.	3.9	1,180
5	Applying extracellular vesicles based therapeutics in clinical trials â€“ an ISEV position paper. Journal of Extracellular Vesicles, 2015, 4, 30087.	12.2	1,020
6	Neutral Sphingomyelinase 2 (nSMase2)-dependent Exosomal Transfer of Angiogenic MicroRNAs Regulate Cancer Cell Metastasis. Journal of Biological Chemistry, 2013, 288, 10849-10859.	3.4	629
7	Exosomes from bone marrow mesenchymal stem cells contain a microRNA that promotes dormancy in metastatic breast cancer cells. Science Signaling, 2014, 7, ra63.	3.6	558
8	Brain metastatic cancer cells release microRNA-181c-containing extracellular vesicles capable of destructing bloodâ€“brain barrier. Nature Communications, 2015, 6, 6716.	12.8	547
9	Adipose tissue-derived mesenchymal stem cells as a source of human hepatocytes. Hepatology, 2007, 46, 219-228.	7.3	497
10	Emerging roles of long nonâ€coding <scp>RNA</scp> in cancer. Cancer Science, 2018, 109, 2093-2100.	3.9	489
11	microRNA as a new immune-regulatory agent in breast milk. Silence: A Journal of RNA Regulation, 2010, 1, 7.	8.1	484
12	Ultra-sensitive liquid biopsy of circulating extracellular vesicles using ExoScreen. Nature Communications, 2014, 5, 3591.	12.8	450
13	Human adipose tissue-derived mesenchymal stem cells secrete functional neprilysin-bound exosomes. Scientific Reports, 2013, 3, 1197.	3.3	424
14	Systemic Delivery of Synthetic MicroRNA-16 Inhibits the Growth of Metastatic Prostate Tumors via Downregulation of Multiple Cell-cycle Genes. Molecular Therapy, 2010, 18, 181-187.	8.2	399
15	Drug Resistance Driven by Cancer Stem Cells and Their Niche. International Journal of Molecular Sciences, 2017, 18, 2574.	4.1	376
16	Efficient delivery of small interfering RNA to bone-metastatic tumors by using atelocollagen in vivo. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 12177-12182.	7.1	359
17	The therapeutic potential of mesenchymal stem cellâ€derived extracellular vesicles. Proteomics, 2013, 13, 1637-1653.	2.2	332
18	Comparative marker analysis of extracellular vesicles in different human cancer types. Journal of Extracellular Vesicles, 2013, 2, .	12.2	321

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19	Atelocollagen-mediated synthetic small interfering RNA delivery for effective gene silencing in vitro and in vivo. Nucleic Acids Research, 2004, 32, e109-e109.	14.5	303
20	IFATS Collection: In Vivo Therapeutic Potential of Human Adipose Tissue Mesenchymal Stem Cells After Transplantation into Mice with Liver Injury. Stem Cells, 2008, 26, 2705-2712.	3.2	277
21	Novel combination of serum microRNA for detecting breast cancer in the early stage. Cancer Science, 2016, 107, 326-334.	3.9	274
22	miR-22 represses cancer progression by inducing cellular senescence. Journal of Cell Biology, 2011, 193, 409-424.	5.2	272
23	Bovine milk exosomes contain microRNA and mRNA and are taken up by human macrophages. Journal of Dairy Science, 2015, 98, 2920-2933.	3.4	269
24	Imaging exosome transfer from breast cancer cells to stroma at metastatic sites in orthotopic nude-mouse models. Advanced Drug Delivery Reviews, 2013, 65, 383-390.	13.7	267
25	Versatile roles of extracellular vesicles in cancer. Journal of Clinical Investigation, 2016, 126, 1163-1172.	8.2	261
26	The Progression of Liver Fibrosis Is Related with Overexpression of the miR-199 and 200 Families. PLoS ONE, 2011, 6, e16081.	2.5	248
27	New delivery system for plasmid DNA in vivo using atelocollagen as a carrier material: the Minipellet. Nature Medicine, 1999, 5, 707-710.	30.7	240
28	MicroRNA-143 Regulates Human Osteosarcoma Metastasis by Regulating Matrix Metalloprotease-13 Expression. Molecular Therapy, 2011, 19, 1123-1130.	8.2	240
29	Rapid hepatic fate specification of adiposeâ€derived stem cells and their therapeutic potential for liver failure. Journal of Gastroenterology and Hepatology (Australia), 2009, 24, 70-77.	2.8	238
30	Competitive Interactions of Cancer Cells and Normal Cells via Secretory MicroRNAs. Journal of Biological Chemistry, 2012, 287, 1397-1405.	3.4	237
31	Malignant extracellular vesicles carrying MMP1 mRNA facilitate peritoneal dissemination in ovarian cancer. Nature Communications, 2017, 8, 14470.	12.8	235
32	Therapeutic potential of RNA interference against cancer. Cancer Science, 2006, 97, 689-696.	3.9	220
33	The Clinical Relevance of the miR-197/CKS1B/STAT3-mediated PD-L1 Network in Chemoresistant Non-small-cell Lung Cancer. Molecular Therapy, 2015, 23, 717-727.	8.2	218
34	Integrated extracellular microRNA profiling for ovarian cancer screening. Nature Communications, 2018, 9, 4319.	12.8	213
35	MicroRNA-500 as a potential diagnostic marker for hepatocellular carcinoma. Biomarkers, 2009, 14, 529-538.	1.9	204
36	The Immunomodulatory Functions of Mesenchymal Stromal/Stem Cells Mediated via Paracrine Activity. Journal of Clinical Medicine, 2019, 8, 1025.	2.4	203

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37	Cancer-secreted hsa-miR-940 induces an osteoblastic phenotype in the bone metastatic microenvironment via targeting ARHGAP1 and FAM134A. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 2204-2209.	7.1	200
38	Differentiation of embryonic stem cells into hepatocytes: Biological functions and therapeutic application. Hepatology, 2003, 37, 983-993.	7.3	197
39	Suppression of autophagy by extracellular vesicles promotes myofibroblast differentiation in COPD pathogenesis. Journal of Extracellular Vesicles, 2015, 4, 28388.	12.2	187
40	Conversion of Terminally Committed Hepatocytes to Culturable Bipotent Progenitor Cells with Regenerative Capacity. Cell Stem Cell, 2017, 20, 41-55.	11.1	187
41	Atelocollagen for protein and gene delivery. Advanced Drug Delivery Reviews, 2003, 55, 1651-1677.	13.7	178
42	Extracellular vesicle transfer of cancer pathogenic components. Cancer Science, 2016, 107, 385-390.	3.9	175
43	Circulating miRNA panels for specific and early detection in bladder cancer. Cancer Science, 2019, 110, 408-419.	3.9	175
44	Unveiling massive numbers of cancer-related urinary-microRNA candidates via nanowires. Science Advances, 2017, 3, e1701133.	10.3	170
45	Biocompatibility of highly purified bovine milkâ€derived extracellular vesicles. Journal of Extracellular Vesicles, 2018, 7, 1440132.	12.2	168
46	Disruption of Circulating Extracellular Vesicles as a Novel Therapeutic Strategy against Cancer Metastasis. Molecular Therapy, 2017, 25, 181-191.	8.2	164
47	Extracellular vesicles as biomarkers and therapeutic targets for cancer. American Journal of Physiology - Cell Physiology, 2020, 318, C29-C39.	4.6	162
48	Direct hepatic fate specification from mouse embryonic stem cells. Hepatology, 2005, 41, 836-846.	7.3	157
49	RPN2 gene confers docetaxel resistance in breast cancer. Nature Medicine, 2008, 14, 939-948.	30.7	150
50	Comprehensive miRNA Expression Analysis in Peripheral Blood Can Diagnose Liver Disease. PLoS ONE, 2012, 7, e48366.	2.5	149
51	Extracellular vesicles in lung microenvironment and pathogenesis. Trends in Molecular Medicine, 2015, 21, 533-542.	6.7	149
52	Updating MISEV: Evolving the minimal requirements for studies of extracellular vesicles. Journal of Extracellular Vesicles, 2021, 10, e12182.	12.2	147
53	Trash or Treasure: extracellular microRNAs and cell-to-cell communication. Frontiers in Genetics, 2013, 4, 173.	2.3	144
54	Exosomal miRNAs from Peritoneum Lavage Fluid as Potential Prognostic Biomarkers of Peritoneal Metastasis in Gastric Cancer. PLoS ONE, 2015, 10, e0130472.	2.5	141

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55	Biomaterials for Gene Delivery Atelocollagen-mediated Controlled Release of Molecular Medicines. Current Gene Therapy, 2001, 1, 31-52.	2.0	137
56	The roles of extracellular vesicles in cancer biology: Toward the development of novel cancer biomarkers. Proteomics, 2014, 14, 412-425.	2.2	134
57	Secretory microRNAs as a versatile communication tool. Communicative and Integrative Biology, 2010, 3, 478-481.	1.4	132
58	Circulating exosomal microRNA-203 is associated with metastasis possibly via inducing tumor-associated macrophages in colorectal cancer. Oncotarget, 2017, 8, 78598-78613.	1.8	132
59	The role of microRNAs in the regulation of cancer stem cells. Frontiers in Genetics, 2014, 4, 295.	2.3	128
60	Clinical Application of Mesenchymal Stem Cell-Derived Extracellular Vesicle-Based Therapeutics for Inflammatory Lung Diseases. Journal of Clinical Medicine, 2018, 7, 355.	2.4	128
61	Loss of microRNA-27b contributes to breast cancer stem cell generation by activating ENPP1. Nature Communications, 2015, 6, 7318.	12.8	126
62	How cancer cells dictate their microenvironment: present roles of extracellular vesicles. Cellular and Molecular Life Sciences, 2017, 74, 697-713.	5.4	126
63	Emerging role of extracellular vesicles as a senescence-associated secretory phenotype: Insights into the pathophysiology of lung diseases. Molecular Aspects of Medicine, 2018, 60, 92-103.	6.4	126
64	The Roles of MicroRNAs in Breast Cancer. Cancers, 2015, 7, 598-616.	3.7	125
65	Critical considerations for the development of potency tests for therapeutic applications of mesenchymal stromal cell-derived small extracellular vesicles. Cytotherapy, 2021, 23, 373-380.	0.7	125
66	miR-148a plays a pivotal role in the liver by promoting the hepatospecific phenotype and suppressing the invasiveness of transformed cells. Hepatology, 2013, 58, 1153-1165.	7.3	119
67	Stilbene derivatives promote Ago2-dependent tumour-suppressive microRNA activity. Scientific Reports, 2012, 2, 314.	3.3	116
68	Development of mi<scp>RNA</scp>â€based therapeutic approaches for cancer patients. Cancer Science, 2019, 110, 1140-1147.	3.9	101
69	Generation of genetically modified rats from embryonic stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14223-14228.	7.1	99
70	Therapeutic Effects of MicroRNA-582-5p and -3p on the Inhibition of Bladder Cancer Progression. Molecular Therapy, 2013, 21, 610-619.	8.2	98
71	Cross-talk between cancer cells and their neighbors via miRNA in extracellular vesicles: an emerging player in cancer metastasis. Journal of Biomedical Science, 2019, 26, 7.	7.0	98
72	Adipose tissue-derived stem cells as a regenerative therapy for a mouse steatohepatitis-induced cirrhosis model. Hepatology, 2013, 58, 1133-1142.	7.3	96

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73	Serum extracellular vesicular miR-21-5p is a predictor of the prognosis in idiopathic pulmonary fibrosis. Respiratory Research, 2016, 17, 110.	3.6	94
74	How electromagnetic fields can influence adult stem cells: positive and negative impacts. Stem Cell Research and Therapy, 2016, 7, 54.	5.5	94
75	Clinical significance of circulating miR-25-3p as a novel diagnostic and prognostic biomarker in osteosarcoma. Oncotarget, 2017, 8, 33375-33392.	1.8	93
76	An integrative genomic analysis revealed the relevance of microRNA and gene expression for drug-resistance in human breast cancer cells. Molecular Cancer, 2011, 10, 135.	19.2	90
77	Circulating microRNAs and extracellular vesicles as potential cancer biomarkers: a systematic review. International Journal of Clinical Oncology, 2017, 22, 413-420.	2.2	90
78	Molecular signatures of mesenchymal stem cell-derived extracellular vesicle-mediated tissue repair. Stem Cell Research and Therapy, 2015, 6, 212.	5.5	89
79	The role of extracellular vesicle microRNAs in cancer biology. Clinical Chemistry and Laboratory Medicine, 2017, 55, 648-656.	2.3	89
80	Atelocollagen-Based Gene Transfer in Cells Allows High-Throughput Screening of Gene Functions. Biochemical and Biophysical Research Communications, 2001, 289, 1075-1081.	2.1	88
81	Cancer extracellular vesicles contribute to stromal heterogeneity by inducing chemokines in cancer-associated fibroblasts. Oncogene, 2019, 38, 5566-5579.	5.9	87
82	Large-scale Circulating microRNA Profiling for the Liquid Biopsy of Prostate Cancer. Clinical Cancer Research, 2019, 25, 3016-3025.	7.0	87
83	Exploiting the message from cancer: the diagnostic value of extracellular vesicles for clinical applications. Experimental and Molecular Medicine, 2019, 51, 1-9.	7.7	87
84	A novel platform for cancer therapy using extracellular vesicles. Advanced Drug Delivery Reviews, 2015, 95, 50-55.	13.7	86
85	RPN2-mediated glycosylation of tetraspanin CD63 regulates breast cancer cell malignancy. Molecular Cancer, 2014, 13, 134.	19.2	84
86	Extracellular vesicles as transâ€genomic agents: Emerging roles in disease and evolution. Cancer Science, 2017, 108, 824-830.	3.9	84
87	A combination of circulating miRNAs for the early detection of ovarian cancer. Oncotarget, 2017, 8, 89811-89823.	1.8	84
88	Inhibition of Stabilin-2 elevates circulating hyaluronic acid levels and prevents tumor metastasis. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 4263-4268.	7.1	82
89	Extracellular Vesicles and Their Role in Urologic Malignancies. European Urology, 2016, 70, 323-331.	1.9	79
90	RNAi Therapeutic Platforms for Lung Diseases. Pharmaceuticals, 2013, 6, 223-250.	3.8	78

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91	Stem Cells for Hepatic Regeneration: The Role of Adipose Tissue Derived Mesenchymal Stem Cells. Current Stem Cell Research and Therapy, 2010, 5, 182-189.	1.3	77
92	Intercellular Communication by Extracellular Vesicles and Their MicroRNAs in Asthma. Clinical Therapeutics, 2014, 36, 873-881.	2.5	75
93	Latest advances in extracellular vesicles: from bench to bedside. Science and Technology of Advanced Materials, 2019, 20, 746-757.	6.1	74
94	Human bronchial epithelial cellâ€derived extracellular vesicle therapy for pulmonary fibrosis via inhibition of TGFâ€²â€WNT crosstalk. Journal of Extracellular Vesicles, 2021, 10, e12124.	12.2	74
95	Time-Dependent Expression Profiles of microRNAs and mRNAs in Rat Milk Whey. PLoS ONE, 2014, 9, e88843.	2.5	73
96	Exosomal tumor-suppressive microRNAs as novel cancer therapy. Advanced Drug Delivery Reviews, 2013, 65, 376-382.	13.7	72
97	Commitment of Annexin A2 in recruitment of microRNAs into extracellular vesicles. FEBS Letters, 2015, 589, 4071-4078.	2.8	72
98	A miRNA-based diagnostic model predicts resectable lung cancer in humans with high accuracy. Communications Biology, 2020, 3, 134.	4.4	72
99	Mesenchymal stem cell-derived extracellular vesicles: a glimmer of hope in treating Alzheimerâ€™s disease. International Immunology, 2017, 29, 11-19.	4.0	67
100	Trophic Activity and Phenotype of Adipose Tissue-Derived Mesenchymal Stem Cells as a Background of Their Regenerative Potential. Stem Cells International, 2017, 2017, 1-13.	2.5	67
101	A serum microRNA classifier for the diagnosis of sarcomas of various histological subtypes. Nature Communications, 2019, 10, 1299.	12.8	66
102	Exosomes and extracellular vesicles: Rethinking the essential values in cancer biology. Seminars in Cancer Biology, 2021, 74, 79-91.	9.6	65
103	A comparative analysis of the transcriptome and signal pathways in hepatic differentiation of human adipose mesenchymal stem cells. FEBS Journal, 2008, 275, 1260-1273.	4.7	64
104	Epigenetic reprogramming using 5-azacytidine promotes an anti-cancer response in pancreatic adenocarcinoma cells. Cell Death and Disease, 2018, 9, 468.	6.3	64
105	Establishment and Characterization of an In Vitro Model of Ovarian Cancer Stem-like Cells with an Enhanced Proliferative Capacity. Cancer Research, 2016, 76, 150-160.	0.9	63
106	Extracellular Vesicles from Fibroblasts Induce Epithelial-Cell Senescence in Pulmonary Fibrosis. American Journal of Respiratory Cell and Molecular Biology, 2020, 63, 623-636.	2.9	63
107	Establishment of Rat Embryonic Stem Cells and Making of Chimera Rats. PLoS ONE, 2008, 3, e2800.	2.5	62
108	Extracellular Vesicles in Chronic Obstructive Pulmonary Disease. International Journal of Molecular Sciences, 2016, 17, 1801.	4.1	62

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109	Clinical Relevance and Therapeutic Significance of MicroRNA-133a Expression Profiles and Functions in Malignant Osteosarcoma-Initiating Cells. Stem Cells, 2014, 32, 959-973.	3.2	61
110	Commitment of stem cells into functional hepatocytes. Differentiation, 2010, 79, 65-73.	1.9	60
111	Summary of the ISEV workshop on extracellular vesicles as disease biomarkers, held in Birmingham, UK, during December 2017. Journal of Extracellular Vesicles, 2018, 7, 1473707.	12.2	60
112	A label-free electrical detection of exosomal microRNAs using microelectrode array. Chemical Communications, 2012, 48, 11942.	4.1	58
113	Altered biodistribution of deglycosylated extracellular vesicles through enhanced cellular uptake. Journal of Extracellular Vesicles, 2020, 9, 1713527.	12.2	58
114	Stem cell plasticity: Learning from hepatogenic differentiation strategies. Developmental Dynamics, 2007, 236, 3228-3241.	1.8	57
115	Development of Small RNA Delivery Systems for Lung Cancer Therapy. International Journal of Molecular Sciences, 2015, 16, 5254-5270.	4.1	57
116	Imaging of angiogenesis of human umbilical vein endothelial cells by uptake of exosomes secreted from hepatocellular carcinoma cells. Scientific Reports, 2018, 8, 6765.	3.3	56
117	Development and Validation of an Esophageal Squamous Cell Carcinoma Detection Model by Large-Scale MicroRNA Profiling. JAMA Network Open, 2019, 2, e194573.	5.9	56
118	Effects of adipose-derived mesenchymal cells on ischemiaâ€“reperfusion injury in kidney. Clinical and Experimental Nephrology, 2012, 16, 679-689.	1.6	55
119	RNAi Therapeutics and Applications of MicroRNAs in Cancer Treatment. Japanese Journal of Clinical Oncology, 2013, 43, 596-607.	1.3	54
120	The Impact of Extracellular Vesicle-Encapsulated Circulating MicroRNAs in Lung Cancer Research. BioMed Research International, 2014, 2014, 1-8.	1.9	54
121	Regulatory role of resveratrol, a microRNA-controlling compound, in HNRNPA1 expression, which is associated with poor prognosis in breast cancer. Oncotarget, 2018, 9, 24718-24730.	1.8	54
122	Expression Level of Urinary MicroRNA-146a-5p Is Increased in Patients With Bladder Cancer and Decreased in Those After Transurethral Resection. Clinical Genitourinary Cancer, 2016, 14, e493-e499.	1.9	53
123	UBL3 modification influences protein sorting to small extracellular vesicles. Nature Communications, 2018, 9, 3936.	12.8	53
124	Involvement of Extracellular Vesicles in Vascular-Related Functions in Cancer Progression and Metastasis. International Journal of Molecular Sciences, 2019, 20, 2584.	4.1	53
125	Highly Sensitive Circulating MicroRNA Panel for Accurate Detection of Hepatocellular Carcinoma in Patients With Liver Disease. Hepatology Communications, 2020, 4, 284-297.	4.3	53
126	A Photon Counting Technique for Quantitatively Evaluating Progression of Peritoneal Tumor Dissemination. Cancer Research, 2006, 66, 7532-7539.	0.9	52

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127	FGFâ€4 regulates neural progenitor cell proliferation and neuronal differentiation. FASEB Journal, 2006, 20, 1484-1485.	0.5	52
128	Differentiation Therapy by Epigenetic Reconditioning Exerts Antitumor Effects on Liver Cancer Cells. Molecular Therapy, 2018, 26, 1840-1854.	8.2	51
129	Unraveling the Mystery of Cancer by Secretory microRNA: Horizontal microRNA Transfer between Living Cells. Frontiers in Genetics, 2011, 2, 97.	2.3	50
130	Circulating MicroRNA-92b-3p as a Novel Biomarker for Monitoring of Synovial Sarcoma. Scientific Reports, 2017, 7, 14634.	3.3	50
131	Risk prediction models for dementia constructed by supervised principal component analysis using miRNA expression data. Communications Biology, 2019, 2, 77.	4.4	50
132	Extracellular Vesicles in Cancer Metastasis: Potential as Therapeutic Targets and Materials. International Journal of Molecular Sciences, 2020, 21, 4463.	4.1	50
133	Lipidomic Analysis of Cells and Extracellular Vesicles from High- and Low-Metastatic Triple-Negative Breast Cancer. Metabolites, 2020, 10, 67.	2.9	49
134	Extracellular vesicles in the development of organâ€specific metastasis. Journal of Extracellular Vesicles, 2021, 10, e12125.	12.2	49
135	Adipose tissue derived stromal stem cell therapy in murine <scp>C</scp>on<scp>A</scp>â€derived hepatitis is dependent on myeloidâ€lineage and <scp>CD</scp>4⁺<scp>T</scp>â€cell suppression. European Journal of Immunology, 2013, 43, 2956-2968.	2.9	48
136	Dark side of the exosome: the role of the exosome in cancer metastasis and targeting the exosome as a strategy for cancer therapy. Future Oncology, 2014, 10, 671-681.	2.4	48
137	Potential Application of Extracellular Vesicles of Human Adipose Tissue-Derived Mesenchymal Stem Cells in Alzheimerâ€™s Disease Therapeutics. Methods in Molecular Biology, 2014, 1212, 171-181.	0.9	47
138	miRNA therapy targeting cancer stem cells: a new paradigm for cancer treatment and prevention of tumor recurrence. Therapeutic Delivery, 2015, 6, 323-337.	2.2	47
139	High-level secretion of tissue factor-rich extracellular vesicles from ovarian cancer cells mediated by filamin-A and protease-activated receptors. Thrombosis and Haemostasis, 2016, 115, 299-310.	3.4	47
140	Extracellular vesicles in lung cancerâ€”From bench to bedside. Seminars in Cell and Developmental Biology, 2017, 67, 39-47.	5.0	47
141	Extracellular microRNAs and oxidative stress in liver injury: a systematic mini review. Journal of Clinical Biochemistry and Nutrition, 2018, 63, 6-11.	1.4	46
142	Acerola exosome-like nanovesicles to systemically deliver nucleic acid medicine via oral administration. Molecular Therapy - Methods and Clinical Development, 2021, 21, 199-208.	4.1	46
143	Generation of human hepatic progenitor cells with regenerative and metabolic capacities from primary hepatocytes. ELife, 2019, 8, .	6.0	46
144	Phase I clinical study of liver regenerative therapy for cirrhosis by intrahepatic arterial infusion of freshly isolated autologous adipose tissue-derived stromal/stem (regenerative) cell. Regenerative Therapy, 2017, 6, 52-64.	3.0	45

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145	Cancer-related microRNAs and their role as tumor suppressors and oncogenes in hepatocellular carcinoma. Histology and Histopathology, 2013, 28, 437-51.	0.7	45
146	A novel platform to enable inhaled naked RNAi medicine for lung cancer. Scientific Reports, 2013, 3, 3325.	3.3	44
147	Ribophorin II regulates breast tumor initiation and metastasis through the functional suppression of GSK3Î². Scientific Reports, 2013, 3, 2474.	3.3	44
148	Extracellular Vesicles: New Players in Lung Immunity. American Journal of Respiratory Cell and Molecular Biology, 2018, 58, 560-565.	2.9	44
149	Serum MicroRNA-Based Risk Prediction for Stroke. Stroke, 2019, 50, 1510-1518.	2.0	44
150	Small extracellular vesicles derived from interferon-Î³ pre-conditioned mesenchymal stromal cells effectively treat liver fibrosis. Npj Regenerative Medicine, 2021, 6, 19.	5.2	44
151	Glutathione S-transferase Pi mediates proliferation of androgen-independent prostate cancer cells. Carcinogenesis, 2008, 29, 1134-1138.	2.8	43
152	Interactions between cancer cells and normal cells via miRNAs in extracellular vesicles. Cellular and Molecular Life Sciences, 2015, 72, 1849-1861.	5.4	42
153	The clinical impact of intraâ€•and extracellular miRNAs in ovarian cancer. Cancer Science, 2020, 111, 3435-3444.	3.9	41
154	Serum miRNAâ€“based Prediction of Axillary Lymph Node Metastasis in Breast Cancer. Clinical Cancer Research, 2019, 25, 1817-1827.	7.0	40
155	A paradigm shift for extracellular vesicles as small RNA carriers: from cellular waste elimination to therapeutic applications. Drug Delivery and Translational Research, 2014, 4, 31-37.	5.8	39
156	miR-26a regulates extracellular vesicle secretion from prostate cancer cells via targeting SHC4, PFDN4, and CHORDC1. Science Advances, 2020, 6, eaay3051.	10.3	39
157	Osteoblast-derived vesicles induce a switch from bone-formation to bone-resorption in vivo. Nature Communications, 2022, 13, 1066.	12.8	39
158	A tissue microRNA signature that predicts the prognosis of breast cancer in young women. PLoS ONE, 2017, 12, e0187638.	2.5	38
159	Detection of spatial localization of Hst-1/Fgf-4 gene expression in brain and testis from adult mice. Oncogene, 2000, 19, 3805-3810.	5.9	37
160	Recapitulation ofin vivo gene expression during hepatic differentiation from murine embryonic stem cells. Hepatology, 2005, 42, 558-567.	7.3	37
161	Pleiotropic function of FGFâ€4: Its role in development and stem cells. Developmental Dynamics, 2009, 238, 265-276.	1.8	37
162	Single-Cell Analysis Reveals a Preexisting Drug-Resistant Subpopulation in the Luminal Breast Cancer Subtype. Cancer Research, 2019, 79, 4412-4425.	0.9	37

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163	Extracellular Vesicles Are Key Regulators of Tumor Neovasculature. Frontiers in Cell and Developmental Biology, 2020, 8, 611039.	3.7	37
164	MEG3-derived miR-493-5p overcomes the oncogenic feature of IGF2-miR-483 loss of imprinting in hepatic cancer cells. Cell Death and Disease, 2019, 10, 553.	6.3	36
165	Atelocollagen-Mediated Systemic DDS for Nucleic Acid Medicines. Annals of the New York Academy of Sciences, 2006, 1082, 9-17.	3.8	35
166	Functional Analysis of Exosomal MicroRNA in Cellâ€“Cell Communication Research. Methods in Molecular Biology, 2013, 1024, 1-10.	0.9	35
167	Electrokinetic Evaluation of Individual Exosomes by On-Chip Microcapillary Electrophoresis with Laser Dark-Field Microscopy. Japanese Journal of Applied Physics, 2013, 52, 06GK10.	1.5	35
168	Brain metastasis-related microRNAs in patients with advanced breast cancer. PLoS ONE, 2019, 14, e0221538.	2.5	34
169	Potential applications of miRNAs as diagnostic and prognostic markers in liver cancer. Frontiers in Bioscience - Landmark, 2013, 18, 199.	3.0	34
170	Generation of a novel transgenic rat model for tracing extracellular vesicles in body fluids. Scientific Reports, 2016, 6, 31172.	3.3	33
171	Prognosis prediction model for conversion from mild cognitive impairment to Alzheimerâ€™s disease created by integrative analysis of multi-omics data. Alzheimer's Research and Therapy, 2020, 12, 145.	6.2	33
172	Generation of functional liver organoids on combining hepatocytes and cholangiocytes with hepatobiliary connections ex vivo. Nature Communications, 2021, 12, 3390.	12.8	33
173	Potential of Atelocollagen-Mediated Systemic Antisense Therapeutics for Inflammatory Disease. Human Gene Therapy, 2004, 15, 263-272.	2.7	32
174	Extracellular vesicles: Toward a clinical application in urological cancer treatment. International Journal of Urology, 2018, 25, 533-543.	1.0	32
175	Assessment of the Diagnostic Utility of Serum MicroRNA Classification in Patients With Diffuse Glioma. JAMA Network Open, 2019, 2, e1916953.	5.9	32
176	Extracellular vesicle-encapsulated microRNA-761 enhances pazopanib resistance in synovial sarcoma. Biochemical and Biophysical Research Communications, 2018, 495, 1322-1327.	2.1	31
177	Extracellular vesicles mediate the horizontal transfer of an active LINEâ€1 retrotransposon. Journal of Extracellular Vesicles, 2019, 8, 1643214.	12.2	31
178	Efficacy of a Novel Class of RNA Interference Therapeutic Agents. PLoS ONE, 2012, 7, e42655.	2.5	31
179	Biological Functions Driven by mRNAs Carried by Extracellular Vesicles in Cancer. Frontiers in Cell and Developmental Biology, 2021, 9, 620498.	3.7	30
180	HST-1/FGF-4 gene activation induces spermatogenesis and prevents adriamycin-induced testicular toxicity. Oncogene, 2002, 21, 899-908.	5.9	29

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181	Roles of microRNAs in the Hepatitis B Virus Infection and Related Diseases. Viruses, 2013, 5, 2690-2703.	3.3	29
182	The small vesicular culprits: the investigation of extracellular vesicles as new targets for cancer treatment. Clinical and Translational Medicine, 2017, 6, 45.	4.0	29
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