Leonora Balaj

List of Publications by Year in Descending Order

63 papers	10,861 citations	38 h-index	75 g-index
75 ext. papers	14,284 ext. citations	11.5 avg, IF	5.78 L-index

#	Paper	IF	Citations
63	Multielectrode Spectroscopy Enables Rapid and Sensitive Molecular Profiling of Extracellular Vesicles.. *ACS Central Science*, **2022**, 8, 110-117	16.8	1
62	BIOM-12. DEVELOPMENT OF 5-ALA BASED LIQUID BIOPSY FOR THE NON-INVASIVE DIAGNOSIS OF GLIOBLASTOMA. *Neuro-Oncology*, **2021**, 23, vi12-vi12	1	
61	BIOM-45. CHARACTERIZATION OF EVs RELEASED FROM 5-ALA DOSED GLIAL AND EXTRA-AXIAL TUMORS. *Neuro-Oncology*, **2021**, 23, vi21-vi21	1	
60	The role of extracellular vesicles in acquisition of resistance to therapy in glioblastomas. **2021**, 4, 1-16		2
59	Blood-Based Detection of BRAF V600E in Gliomas and Brain Tumor Metastasis. *Cancers*, **2021**, 13,	6.6	4
58	An integrated magneto-electrochemical device for the rapid profiling of tumour extracellular vesicles from blood plasma. *Nature Biomedical Engineering*, **2021**, 5, 678-689	19	19
57	Promoter Mutation Analysis for Blood-Based Diagnosis and Monitoring of Gliomas. *Clinical Cancer Research*, **2021**, 27, 169-178	12.9	19
56	OMRT-2. Liquid biopsy for patient stratification and monitoring of dacomitinib clinical trial in patients with EGFR amplified recurrent glioblastoma. *Neuro-Oncology Advances*, **2021**, 3, ii7-ii7	0.9	78
55	The power of imaging to understand extracellular vesicle biology in vivo. *Nature Methods*, **2021**, 18, 1013-1026	31.6	38
54	Novel Gene Fusions in Glioblastoma Tumor Tissue and Matched Patient Plasma. *Cancers*, **2020**, 12,	6.6	3
53	Liquid Biopsy Strategies to Distinguish Progression from Pseudoprogression and Radiation Necrosis in Glioblastomas. *Advanced Biology*, **2020**, 4, e2000029	3.5	7
52	Exploring Predictors of Response to Dacomitinib in -Amplified Recurrent Glioblastoma. *JCO Precision Oncology*, **2020**, 4,	3.6	9
51	From laboratory to clinic: Translation of extracellular vesicle based cancer biomarkers. *Methods*, **2020**, 177, 58-66	4.6	25
50	Exosome/microvesicle content is altered in leucine-rich repeat kinase 2 mutant induced pluripotent stem cell-derived neural cells. *Journal of Comparative Neurology*, **2020**, 528, 1203-1215	3.4	6
49	Large and small extracellular vesicles released by glioma cells and. *Journal of Extracellular Vesicles*, **2020**, 9, 1689784	16.4	30
48	Orally Administered 5-aminolevulinic Acid for Isolation and Characterization of Circulating Tumor-Derived Extracellular Vesicles in Glioblastoma Patients. *Cancers*, **2020**, 12,	6.6	6
47	Navigating the Landscape of Tumor Extracellular Vesicle Heterogeneity. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	22

46	exRNA Atlas Analysis Reveals Distinct Extracellular RNA Cargo Types and Their Carriers Present across Human Biofluids. *Cell*, **2019**, 177, 463-477.e15	56.2	144
45	The Extracellular RNA Communication Consortium: Establishing Foundational Knowledge and Technologies for Extracellular RNA Research. *Cell*, **2019**, 177, 231-242	56.2	91
44	Small RNA Sequencing across Diverse Biofluids Identifies Optimal Methods for exRNA Isolation. *Cell*, **2019**, 177, 446-462.e16	56.2	142
43	Extracellular Vesicles in Glioblastoma Tumor Microenvironment. *Frontiers in Immunology*, **2019**, 10, 3137	8.4	40
42	Characterization of plasma-derived protoporphyrin-IX-positive extracellular vesicles following 5-ALA use in patients with malignant glioma. *EBioMedicine*, **2019**, 48, 23-35	8.8	16
41	Immune evasion mediated by PD-L1 on glioblastoma-derived extracellular vesicles. *Science Advances*, **2018**, 4, eaar2766	14.3	254
40	Extracellular RNAs: A New Awareness of Old Perspectives. *Methods in Molecular Biology*, **2018**, 1740, 1-15	1.4	36
39	Overview of Protocols for Studying Extracellular RNA and Extracellular Vesicles. *Methods in Molecular Biology*, **2018**, 1740, 17-21	1.4	8
38	Isolation of Extracellular RNA from Serum/Plasma. *Methods in Molecular Biology*, **2018**, 1740, 43-57	1.4	6
37	Multiplexed Profiling of Single Extracellular Vesicles. *ACS Nano*, **2018**, 12, 494-503	16.7	167
36	Engineered nanointerfaces for microfluidic isolation and molecular profiling of tumor-specific extracellular vesicles. *Nature Communications*, **2018**, 9, 175	17.4	158
35	Large extracellular vesicles carry most of the tumour DNA circulating in prostate cancer patient plasma. *Journal of Extracellular Vesicles*, **2018**, 7, 1505403	16.4	169
34	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	16.4	3642
33	Secretion and Uptake of Β-Synuclein Via Extracellular Vesicles in Cultured Cells. *Cellular and Molecular Neurobiology*, **2018**, 38, 1539-1550	4.6	42
32	Analysis of extracellular mRNA in human urine reveals splice variant biomarkers of muscular dystrophies. *Nature Communications*, **2018**, 9, 3906	17.4	25
31	Coding and noncoding landscape of extracellular RNA released by human glioma stem cells. *Nature Communications*, **2017**, 8, 1145	17.4	260
30	Liquid biopsy for brain tumors. *Expert Review of Molecular Diagnostics*, **2017**, 17, 943-947	3.8	70
29	Extracellular Mitochondria in Cerebrospinal Fluid and Neurological Recovery After Subarachnoid Hemorrhage. *Stroke*, **2017**, 48, 2231-2237	6.7	63

28	Delivery of Therapeutic Proteins via Extracellular Vesicles: Review and Potential Treatments for Parkinson's Disease, Glioma, and Schwannoma. *Cellular and Molecular Neurobiology*, **2016**, 36, 417-27	4.6	64
27	Extracellular Vesicles: Composition, Biological Relevance, and Methods of Study. *BioScience*, **2015**, 65, 783-797	5.7	459
26	Chip-based analysis of exosomal mRNA mediating drug resistance in glioblastoma. *Nature Communications*, **2015**, 6, 6999	17.4	363
25	Detection of Dual IDH1 and IDH2 Mutations by Targeted Next-Generation Sequencing in Acute Myeloid Leukemia and Myelodysplastic Syndromes. *Journal of Molecular Diagnostics*, **2015**, 17, 661-8	5.1	22
24	Meeting report: discussions and preliminary findings on extracellular RNA measurement methods from laboratories in the NIH Extracellular RNA Communication Consortium. *Journal of Extracellular Vesicles*, **2015**, 4, 26533	16.4	45
23	Potential functional applications of extracellular vesicles: a report by the NIH Common Fund Extracellular RNA Communication Consortium. *Journal of Extracellular Vesicles*, **2015**, 4, 27575	16.4	22
22	Heparin affinity purification of extracellular vesicles. *Scientific Reports*, **2015**, 5, 10266	4.9	113
21	Extracellular vesicles modulate the glioblastoma microenvironment via a tumor suppression signaling network directed by miR-1. *Cancer Research*, **2014**, 74, 738-750	10.1	170
20	Extracellular RNA mediates and marks cancer progression. *Seminars in Cancer Biology*, **2014**, 28, 14-23	12.7	52
19	miR-200-containing extracellular vesicles promote breast cancer cell metastasis. *Journal of Clinical Investigation*, **2014**, 124, 5109-28	15.9	298
18	Glioma diagnostics and biomarkers: an ongoing challenge in the field of medicine and science. *Expert Review of Molecular Diagnostics*, **2014**, 14, 439-52	3.8	63
17	Detection of Human c-Myc and EGFR Amplifications in Circulating Extracellular Vesicles in Mouse Tumour Models. *Journal of Circulating Biomarkers*, **2014**, 3, 6	3.3	1
16	Current methods for the isolation of extracellular vesicles. *Biological Chemistry*, **2013**, 394, 1253-62	4.5	367
15	Heparin blocks transfer of extracellular vesicles between donor and recipient cells. *Journal of Neuro-Oncology*, **2013**, 115, 343-51	4.8	122
14	BEAMing and Droplet Digital PCR Analysis of Mutant IDH1 mRNA in Glioma Patient Serum and Cerebrospinal Fluid Extracellular Vesicles. *Molecular Therapy - Nucleic Acids*, **2013**, 2, e109	10.7	230
13	Dopa-responsive dystonia: functional analysis of single nucleotide substitutions within the 5U untranslated GCH1 region. *PLoS ONE*, **2013**, 8, e76975	3.7	3
12	RNA expression patterns in serum microvesicles from patients with glioblastoma multiforme and controls. *BMC Cancer*, **2012**, 12, 22	4.8	149
11	Protein typing of circulating microvesicles allows real-time monitoring of glioblastoma therapy. *Nature Medicine*, **2012**, 18, 1835-40	50.5	521

10	Microvesicle-associated AAV vector as a novel gene delivery system. *Molecular Therapy*, **2012**, 20, 960-71	11.7	188
9	Extracellular vesicles and their convergence with viral pathways. *Advances in Virology*, **2012**, 2012, 767694	4.9	92
8	Impact of biofluid viscosity on size and sedimentation efficiency of the isolated microvesicles. *Frontiers in Physiology*, **2012**, 3, 162	4.6	163
7	Alternative methods for characterization of extracellular vesicles. *Frontiers in Physiology*, **2012**, 3, 354	4.6	104
6	Tumour microvesicles contain retrotransposon elements and amplified oncogene sequences. *Nature Communications*, **2011**, 2, 180	17.4	765
5	Blood platelets contain tumor-derived RNA biomarkers. *Blood*, **2011**, 118, 3680-3	2.2	212
4	Brain tumor microvesicles: insights into intercellular communication in the nervous system. *Cellular and Molecular Neurobiology*, **2011**, 31, 949-59	4.6	86
3	Microfluidic isolation and transcriptome analysis of serum microvesicles. *Lab on A Chip*, **2010**, 10, 505-11	7.2	377
2	In silico analysis of kinase expression identifies WEE1 as a gatekeeper against mitotic catastrophe in glioblastoma. *Cancer Cell*, **2010**, 18, 244-57	24.3	203
1	TERT promoter mutation analysis for blood-based diagnosis and monitoring of gliomas		1