

Xandra O Breakefield

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310
papers

37,295
citations

94
h-index

189
g-index

320
ext. papers

44,453
ext. citations

9.5
avg, IF

7.32
L-index

#	Paper	IF	Citations
310	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. <i>Journal of Extracellular Vesicles</i> , 2018 , 7, 1535750	16.4	3642
309	Glioblastoma microvesicles transport RNA and proteins that promote tumour growth and provide diagnostic biomarkers. <i>Nature Cell Biology</i> , 2008 , 10, 1470-6	23.4	3575
308	Extracellular vesicles: biology and emerging therapeutic opportunities. <i>Nature Reviews Drug Discovery</i> , 2013 , 12, 347-57	64.1	1894
307	The early-onset torsion dystonia gene (DYT1) encodes an ATP-binding protein. <i>Nature Genetics</i> , 1997 , 17, 40-8	36.3	915
306	Vesiclepedia: a compendium for extracellular vesicles with continuous community annotation. <i>PLoS Biology</i> , 2012 , 10, e1001450	9.7	800
305	Tumour microvesicles contain retrotransposon elements and amplified oncogene sequences. <i>Nature Communications</i> , 2011 , 2, 180	17.4	765
304	Extracellular Vesicles: Unique Intercellular Delivery Vehicles. <i>Trends in Cell Biology</i> , 2017 , 27, 172-188	18.3	683
303	New Technologies for Analysis of Extracellular Vesicles. <i>Chemical Reviews</i> , 2018 , 118, 1917-1950	68.1	581
302	Codon-optimized Gaussia luciferase cDNA for mammalian gene expression in culture and in vivo. <i>Molecular Therapy</i> , 2005 , 11, 435-43	11.7	553
301	Protein typing of circulating microvesicles allows real-time monitoring of glioblastoma therapy. <i>Nature Medicine</i> , 2012 , 18, 1835-40	50.5	521
300	Extracellular Vesicles: Composition, Biological Relevance, and Methods of Study. <i>BioScience</i> , 2015 , 65, 783-797	5.7	459
299	Dynamic biodistribution of extracellular vesicles in vivo using a multimodal imaging reporter. <i>ACS Nano</i> , 2014 , 8, 483-494	16.7	454
298	RNA delivery by extracellular vesicles in mammalian cells and its applications. <i>Nature Reviews Molecular Cell Biology</i> , 2020 , 21, 585-606	48.7	410
297	Microfluidic isolation and transcriptome analysis of serum microvesicles. <i>Lab on A Chip</i> , 2010 , 10, 505-117.2	7.2	377
296	miR-296 regulates growth factor receptor overexpression in angiogenic endothelial cells. <i>Cancer Cell</i> , 2008 , 14, 382-93	24.3	375
295	Genetic analysis of idiopathic torsion dystonia in Ashkenazi Jews and their recent descent from a small founder population. <i>Nature Genetics</i> , 1995 , 9, 152-9	36.3	375
294	Chip-based analysis of exosomal mRNA mediating drug resistance in glioblastoma. <i>Nature Communications</i> , 2015 , 6, 6999	17.4	363

293	The pathophysiological basis of dystonias. <i>Nature Reviews Neuroscience</i> , 2008 , 9, 222-34	13.5	358
292	Visualization and tracking of tumour extracellular vesicle delivery and RNA translation using multiplexed reporters. <i>Nature Communications</i> , 2015 , 6, 7029	17.4	345
291	Advances in therapeutic applications of extracellular vesicles. <i>Science Translational Medicine</i> , 2019 , 11,	17.5	343
290	Therapeutic applications of extracellular vesicles: clinical promise and open questions. <i>Annual Review of Pharmacology and Toxicology</i> , 2015 , 55, 439-464	17.9	338
289	Degradation of fibrillar collagen in a human melanoma xenograft improves the efficacy of an oncolytic herpes simplex virus vector. <i>Cancer Research</i> , 2006 , 66, 2509-13	10.1	328
288	Extracellular vesicles: emerging targets for cancer therapy. <i>Trends in Molecular Medicine</i> , 2014 , 20, 385-93	11.5	277
287	TorsinA and heat shock proteins act as molecular chaperones: suppression of alpha-synuclein aggregation. <i>Journal of Neurochemistry</i> , 2002 , 83, 846-54	6	277
286	Viral vectors for gene delivery to the nervous system. <i>Nature Reviews Neuroscience</i> , 2003 , 4, 353-64	13.5	268
285	Coding and noncoding landscape of extracellular RNA released by human glioma stem cells. <i>Nature Communications</i> , 2017 , 8, 1145	17.4	260
284	Immune evasion mediated by PD-L1 on glioblastoma-derived extracellular vesicles. <i>Science Advances</i> , 2018 , 4, eaar2766	14.3	254
283	Effects of biologically delivered NGF, BDNF and bFGF on striatal excitotoxic lesions. <i>NeuroReport</i> , 1993 , 4, 367-70	1.7	243
282	A secreted luciferase for ex vivo monitoring of in vivo processes. <i>Nature Methods</i> , 2008 , 5, 171-3	21.6	235
281	Genetically engineered microvesicles carrying suicide mRNA/protein inhibit schwannoma tumor growth. <i>Molecular Therapy</i> , 2013 , 21, 101-8	11.7	231
280	BEAMing and Droplet Digital PCR Analysis of Mutant IDH1 mRNA in Glioma Patient Serum and Cerebrospinal Fluid Extracellular Vesicles. <i>Molecular Therapy - Nucleic Acids</i> , 2013 , 2, e109	10.7	230
279	Parkin deletions in a family with adult-onset, tremor-dominant parkinsonism: Expanding the phenotype. <i>Annals of Neurology</i> , 2000 , 48, 65-71	9.4	213
278	Downregulated microRNA-200a in meningiomas promotes tumor growth by reducing E-cadherin and activating the Wnt/beta-catenin signaling pathway. <i>Molecular and Cellular Biology</i> , 2009 , 29, 5923-40	4.8	207
277	Human gene for torsion dystonia located on chromosome 9q32-q34. <i>Neuron</i> , 1989 , 2, 1427-34	13.9	207
276	MiR-21 in the extracellular vesicles (EVs) of cerebrospinal fluid (CSF): a platform for glioblastoma biomarker development. <i>PLoS ONE</i> , 2013 , 8, e78115	3.7	206

275	miR-1289 and "Zipcode"-like Sequence Enrich mRNAs in Microvesicles. <i>Molecular Therapy - Nucleic Acids</i> , 2012 , 1, e10	10.7	195
274	Improved helper virus-free packaging system for HSV amplicon vectors using an ICP27-deleted, oversized HSV-1 DNA in a bacterial artificial chromosome. <i>Molecular Therapy</i> , 2001 , 3, 591-601	11.7	193
273	Directly visualized glioblastoma-derived extracellular vesicles transfer RNA to microglia/macrophages in the brain. <i>Neuro-Oncology</i> , 2016 , 18, 58-69	1	192
272	TorsinA in the nuclear envelope. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 7612-7	11.5	191
271	Multidimensional communication in the microenvirons of glioblastoma. <i>Nature Reviews Neurology</i> , 2018 , 14, 482-495	15	189
270	SCS macrophages suppress melanoma by restricting tumor-derived vesicle-B cell interactions. <i>Science</i> , 2016 , 352, 242-6	33.3	188
269	Microvesicle-associated AAV vector as a novel gene delivery system. <i>Molecular Therapy</i> , 2012 , 20, 960-711.7	11.7	188
268	In vivo tracking of neural progenitor cell migration to glioblastomas. <i>Human Gene Therapy</i> , 2003 , 14, 1247-54	4.8	187
267	Herpes simplex virus type 1 DNA amplified as bacterial artificial chromosome in Escherichia coli: rescue of replication-competent virus progeny and packaging of amplicon vectors. <i>Human Gene Therapy</i> , 1998 , 9, 2787-94	4.8	187
266	Prodrug activation enzymes in cancer gene therapy. <i>Journal of Gene Medicine</i> , 2000 , 2, 148-64	3.5	171
265	Glioma therapy and real-time imaging of neural precursor cell migration and tumor regression. <i>Annals of Neurology</i> , 2005 , 57, 34-41	9.4	170
264	Multiplexed Profiling of Single Extracellular Vesicles. <i>ACS Nano</i> , 2018 , 12, 494-503	16.7	167
263	Emerging roles of extracellular vesicles in the nervous system. <i>Journal of Neuroscience</i> , 2014 , 34, 15482-8.6	8.6	166
262	Mutant torsinA, responsible for early-onset torsion dystonia, forms membrane inclusions in cultured neural cells. <i>Human Molecular Genetics</i> , 2000 , 9, 1403-13	5.6	161
261	Engineered nanointerfaces for microfluidic isolation and molecular profiling of tumor-specific extracellular vesicles. <i>Nature Communications</i> , 2018 , 9, 175	17.4	158
260	RNA expression patterns in serum microvesicles from patients with glioblastoma multiforme and controls. <i>BMC Cancer</i> , 2012 , 12, 22	4.8	149
259	Intravascular delivery of neural stem cell lines to target intracranial and extracranial tumors of neural and non-neural origin. <i>Human Gene Therapy</i> , 2003 , 14, 1777-85	4.8	147
258	Gene transfer into experimental brain tumors mediated by adenovirus, herpes simplex virus, and retrovirus vectors. <i>Human Gene Therapy</i> , 1994 , 5, 183-91	4.8	144

257	Dystonia in Ashkenazi Jews: clinical characterization of a founder mutation. <i>Annals of Neurology</i> , 1994 , 36, 771-7	9.4	144
256	Small RNA Sequencing across Diverse Biofluids Identifies Optimal Methods for exRNA Isolation. <i>Cell</i> , 2019 , 177, 446-462.e16	56.2	142
255	TorsinA binds the KASH domain of nesprins and participates in linkage between nuclear envelope and cytoskeleton. <i>Journal of Cell Science</i> , 2008 , 121, 3476-86	5.3	137
254	Neural precursor cells for delivery of replication-conditional HSV-1 vectors to intracerebral gliomas. <i>Molecular Therapy</i> , 2000 , 1, 347-57	11.7	135
253	Localization of the gene for familial dysautonomia on chromosome 9 and definition of DNA markers for genetic diagnosis. <i>Nature Genetics</i> , 1993 , 4, 160-4	36.3	133
252	miRNA-7 attenuation in Schwannoma tumors stimulates growth by upregulating three oncogenic signaling pathways. <i>Cancer Research</i> , 2011 , 71, 852-61	10.1	131
251	HSV/AAV hybrid amplicon vectors extend transgene expression in human glioma cells. <i>Human Gene Therapy</i> , 1997 , 8, 359-70	4.8	131
250	Role of parkin mutations in 111 community-based patients with early-onset parkinsonism. <i>Annals of Neurology</i> , 2002 , 51, 621-5	9.4	131
249	Experimental tumor therapy in mice using the cyclophosphamide-activating cytochrome P450 2B1 gene. <i>Human Gene Therapy</i> , 1994 , 5, 969-78	4.8	130
248	Extracellular vesicles and intercellular communication within the nervous system. <i>Journal of Clinical Investigation</i> , 2016 , 126, 1198-207	15.9	130
247	TorsinA protein and neuropathology in early onset generalized dystonia with GAG deletion. <i>Neurobiology of Disease</i> , 2003 , 12, 11-24	7.5	128
246	Novel mutation in the TOR1A (DYT1) gene in atypical early onset dystonia and polymorphisms in dystonia and early onset parkinsonism. <i>Neurogenetics</i> , 2001 , 3, 133-43	3	128
245	Astrocytes retrovirally transduced with BDNF elicit behavioral improvement in a rat model of Parkinson's disease. <i>Brain Research</i> , 1995 , 691, 25-36	3.7	127
244	Herpesvirus-mediated gene delivery into the rat brain: specificity and efficiency of the neuron-specific enolase promoter. <i>Cellular and Molecular Neurobiology</i> , 1993 , 13, 503-15	4.6	124
243	FGF-2 regulates neurogenesis and degeneration in the dentate gyrus after traumatic brain injury in mice. <i>Journal of Clinical Investigation</i> , 2003 , 112, 1202-10	15.9	124
242	Rescue of Hearing by Gene Delivery to Inner-Ear Hair Cells Using Exosome-Associated AAV. <i>Molecular Therapy</i> , 2017 , 25, 379-391	11.7	122
241	Heparin blocks transfer of extracellular vesicles between donor and recipient cells. <i>Journal of Neuro-Oncology</i> , 2013 , 115, 343-51	4.8	122
240	Real-time imaging of TRAIL-induced apoptosis of glioma tumors in vivo. <i>Oncogene</i> , 2003 , 22, 6865-72	9.2	121

239	High levels of AAV vector integration into CRISPR-induced DNA breaks. <i>Nature Communications</i> , 2019 , 10, 4439	17.4	119
238	TorsinA: movement at many levels. <i>Neuron</i> , 2001 , 31, 9-12	13.9	119
237	The TOR1A (DYT1) gene family and its role in early onset torsion dystonia. <i>Genomics</i> , 1999 , 62, 377-84	4.3	119
236	Dystonia gene in Ashkenazi Jewish population is located on chromosome 9q32-34. <i>Annals of Neurology</i> , 1990 , 27, 114-20	9.4	117
235	An experimental model of retrovirus gene therapy for malignant brain tumors. <i>Journal of Neurosurgery</i> , 1993 , 79, 104-10	3.2	116
234	Detection of wild-type EGFR amplification and EGFRvIII mutation in CSF-derived extracellular vesicles of glioblastoma patients. <i>Neuro-Oncology</i> , 2017 , 19, 1494-1502	1	115
233	Impaired motor learning in mice expressing torsinA with the DYT1 dystonia mutation. <i>Journal of Neuroscience</i> , 2005 , 25, 5351-5	6.6	114
232	Heparin affinity purification of extracellular vesicles. <i>Scientific Reports</i> , 2015 , 5, 10266	4.9	113
231	Mutant torsinA interferes with protein processing through the secretory pathway in DYT1 dystonia cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 7271-6	11.5	112
230	Distribution of the mRNAs encoding torsinA and torsinB in the normal adult human brain. <i>Annals of Neurology</i> , 1999 , 46, 761-769	9.4	112
229	Structural features of human monoamine oxidase A elucidated from cDNA and peptide sequences. <i>Journal of Neurochemistry</i> , 1988 , 51, 1321-4	6	112
228	Identification of a novel gene (HSN2) causing hereditary sensory and autonomic neuropathy type II through the Study of Canadian Genetic Isolates. <i>American Journal of Human Genetics</i> , 2004 , 74, 1064-73	11	111
227	A highly sensitive assay for monitoring the secretory pathway and ER stress. <i>PLoS ONE</i> , 2007 , 2, e571	3.7	109
226	Dissecting the Causal Mechanism of X-Linked Dystonia-Parkinsonism by Integrating Genome and Transcriptome Assembly. <i>Cell</i> , 2018 , 172, 897-909.e21	56.2	106
225	TorsinA in PC12 cells: localization in the endoplasmic reticulum and response to stress. <i>Journal of Neuroscience Research</i> , 2003 , 72, 158-68	4.4	101
224	Dopamine release is impaired in a mouse model of DYT1 dystonia. <i>Journal of Neurochemistry</i> , 2007 , 102, 783-8	6	100
223	In vivo imaging of S-TRAIL-mediated tumor regression and apoptosis. <i>Molecular Therapy</i> , 2005 , 11, 926-31	11.7	99
222	Local protective effects of nerve growth factor-secreting fibroblasts against excitotoxic lesions in the rat striatum. <i>Journal of Neurosurgery</i> , 1993 , 78, 267-73	3.2	99

221	Differences in A and B Forms of monoamine oxidase revealed by limited proteolysis and peptide mapping. <i>Nature</i> , 1979 , 281, 692-4	50.4	99
220	Human monoamine oxidase gene (MAOA): chromosome position (Xp21-p11) and DNA polymorphism. <i>Genomics</i> , 1988 , 3, 53-8	4.3	97
219	Viral vectors for therapy of neurologic diseases. <i>Neuropharmacology</i> , 2017 , 120, 63-80	5.5	95
218	Functional coexpression of HSV-1 thymidine kinase and green fluorescent protein: implications for noninvasive imaging of transgene expression. <i>Neoplasia</i> , 1999 , 1, 154-61	6.4	95
217	Effects of genetic variations in the dystonia protein torsinA: identification of polymorphism at residue 216 as protein modifier. <i>Human Molecular Genetics</i> , 2006 , 15, 1355-64	5.6	94
216	A close association of torsinA and alpha-synuclein in Lewy bodies: a fluorescence resonance energy transfer study. <i>American Journal of Pathology</i> , 2001 , 159, 339-44	5.8	94
215	Expression of the early-onset torsion dystonia gene (DYT1) in human brain. <i>Annals of Neurology</i> , 1998 , 43, 669-73	9.4	93
214	Extracellular vesicles and their convergence with viral pathways. <i>Advances in Virology</i> , 2012 , 2012, 7676949	6.9	92
213	Metabolic biotinylation of cell surface receptors for in vivo imaging. <i>Nature Methods</i> , 2006 , 3, 391-6	21.6	92
212	The Extracellular RNA Communication Consortium: Establishing Foundational Knowledge and Technologies for Extracellular RNA Research. <i>Cell</i> , 2019 , 177, 231-242	56.2	91
211	Glioblastoma-Associated Microglia Reprogramming Is Mediated by Functional Transfer of Extracellular miR-21. <i>Cell Reports</i> , 2019 , 28, 3105-3119.e7	10.6	89
210	Gene transfer into the mammalian inner ear using HSV-1 and vaccinia virus vectors. <i>Hearing Research</i> , 1999 , 134, 1-8	3.9	89
209	Dystonia-causing mutant torsinA inhibits cell adhesion and neurite extension through interference with cytoskeletal dynamics. <i>Neurobiology of Disease</i> , 2006 , 22, 98-111	7.5	88
208	Bimodal viral vectors and in vivo imaging reveal the fate of human neural stem cells in experimental glioma model. <i>Journal of Neuroscience</i> , 2008 , 28, 4406-13	6.6	87
207	Gene therapy for brain tumors. <i>Brain Pathology</i> , 1995 , 5, 345-81	6	87
206	Brain tumor microvesicles: insights into intercellular communication in the nervous system. <i>Cellular and Molecular Neurobiology</i> , 2011 , 31, 949-59	4.6	86
205	Down-regulation of miR-101 in endothelial cells promotes blood vessel formation through reduced repression of EZH2. <i>PLoS ONE</i> , 2011 , 6, e16282	3.7	85
204	Critical issues in gene therapy for neurologic disease. <i>Human Gene Therapy</i> , 2002 , 13, 579-604	4.8	85

203	Inducible release of TRAIL fusion proteins from a proapoptotic form for tumor therapy. <i>Cancer Research</i> , 2004 , 64, 3236-42	10.1	84
202	Differences in the structure of A and B forms of human monoamine oxidase. <i>Journal of Neurochemistry</i> , 1981 , 37, 363-72	6	84
201	A novel method for imaging apoptosis using a caspase-1 near-infrared fluorescent probe. <i>Neoplasia</i> , 2004 , 6, 95-105	6.4	82
200	Rapid-onset dystonia-parkinsonism: linkage to chromosome 19q13. <i>Annals of Neurology</i> , 1999 , 46, 176-83	3.4	82
199	HSV-1 amplicon vectors--simplicity and versatility. <i>Molecular Therapy</i> , 2000 , 2, 9-15	11.7	80
198	The early-onset torsion dystonia-associated protein, torsinA, is a homeostatic regulator of endoplasmic reticulum stress response. <i>Human Molecular Genetics</i> , 2010 , 19, 3502-15	5.6	79
197	TorsinA participates in endoplasmic reticulum-associated degradation. <i>Nature Communications</i> , 2011 , 2, 393	17.4	79
196	Molecular genetics of the monoamine oxidases. <i>Journal of Neurochemistry</i> , 1989 , 53, 12-8	6	78
195	OMRT-2. Liquid biopsy for patient stratification and monitoring of dacomitinib clinical trial in patients with EGFR amplified recurrent glioblastoma. <i>Neuro-Oncology Advances</i> , 2021 , 3, ii7-ii7	0.9	78
194	Genetically modified fibroblasts producing NGF protect hippocampal neurons after ischemia in the rat. <i>NeuroReport</i> , 1995 , 6, 669-72	1.7	75
193	CRISPR/Cas9 Mediated Disruption of the Swedish APP Allele as a Therapeutic Approach for Early-Onset Alzheimer's Disease. <i>Molecular Therapy - Nucleic Acids</i> , 2018 , 11, 429-440	10.7	71
192	Disease onset in X-linked dystonia-parkinsonism correlates with expansion of a hexameric repeat within an SVA retrotransposon in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E11020-E11028	11.5	70
191	The early onset dystonia protein torsinA interacts with kinesin light chain 1. <i>Journal of Biological Chemistry</i> , 2004 , 279, 19882-92	5.4	70
190	Molecular pathways in dystonia. <i>Neurobiology of Disease</i> , 2011 , 42, 136-47	7.5	69
189	Extracellular Vesicles from High-Grade Glioma Exchange Diverse Pro-oncogenic Signals That Maintain Intratumoral Heterogeneity. <i>Cancer Research</i> , 2016 , 76, 2876-81	10.1	69
188	Epsilon-sarcoglycan mutations found in combination with other dystonia gene mutations. <i>Annals of Neurology</i> , 2002 , 52, 675-9	9.4	67
187	Hereditary variations in monoamine oxidase as a risk factor for Parkinson's disease. <i>Movement Disorders</i> , 1994 , 9, 305-10	7	67
186	Mutations in the Norrie disease gene. <i>Human Mutation</i> , 1995 , 5, 285-92	4.7	67

185	Soluble and particulate forms of rat catechol-O-methyltransferase distinguished by gel electrophoresis and immune fixation. <i>Journal of Neurochemistry</i> , 1985 , 44, 421-32	6	65
184	Single-step conversion of cells to retrovirus vector producers with herpes simplex virus-Epstein-Barr virus hybrid amplicons. <i>Journal of Virology</i> , 1999 , 73, 10426-39	6.6	65
183	Delivery of Therapeutic Proteins via Extracellular Vesicles: Review and Potential Treatments for Parkinson's Disease, Glioma, and Schwannoma. <i>Cellular and Molecular Neurobiology</i> , 2016 , 36, 417-27	4.6	64
182	Benefits and risks of hosting animal cells in the human brain. <i>Nature Medicine</i> , 1997 , 3, 964-9	50.5	63
181	Long-term survival in a rodent model of disseminated brain tumors by combined intrathecal delivery of herpes vectors and ganciclovir treatment. <i>Human Gene Therapy</i> , 1996 , 7, 1989-94	4.8	62
180	Fine localization of the torsion dystonia gene (DYT1) on human chromosome 9q34: YAC map and linkage disequilibrium. <i>Genome Research</i> , 1997 , 7, 483-94	9.7	60
179	Selective uptake of viral and monocrySTALLINE particles delivered intra-arterially to experimental brain neoplasms. <i>Human Gene Therapy</i> , 1995 , 6, 1543-52	4.8	60
178	Structure of the human gene for monoamine oxidase type A. <i>Nucleic Acids Research</i> , 1991 , 19, 4537-41	20.1	60
177	Precise genetic mapping and haplotype analysis of the familial dysautonomia gene on human chromosome 9q31. <i>American Journal of Human Genetics</i> , 1999 , 64, 1110-8	11	59
176	Glioma-Derived miRNA-Containing Extracellular Vesicles Induce Angiogenesis by Reprogramming Brain Endothelial Cells. <i>Cell Reports</i> , 2020 , 30, 2065-2074.e4	10.6	58
175	Gene therapy for the nervous system: challenges and new strategies. <i>Neurotherapeutics</i> , 2014 , 11, 817-30.4		58
174	Genetic therapy for the nervous system. <i>Human Molecular Genetics</i> , 2011 , 20, R28-41	5.6	58
173	New prodrug activation gene therapy for cancer using cytochrome P450 4B1 and 2-aminoanthracene/4-ipomeanol. <i>Human Gene Therapy</i> , 1998 , 9, 1261-73	4.8	58
172	Nerve growth factor released by transgenic astrocytes enhances the function of adrenal chromaffin cell grafts in a rat model of Parkinson's disease. <i>Brain Research</i> , 1994 , 658, 219-31	3.7	57
171	Update on herpesvirus amplicon vectors. <i>Molecular Therapy</i> , 2004 , 10, 630-43	11.7	55
170	Mapping the in vivo distribution of herpes simplex virions. <i>Human Gene Therapy</i> , 1998 , 9, 1543-9	4.8	55
169	siRNA knock-down of mutant torsinA restores processing through secretory pathway in DYT1 dystonia cells. <i>Human Molecular Genetics</i> , 2008 , 17, 1436-45	5.6	54
168	Imaging flow cytometry facilitates multiparametric characterization of extracellular vesicles in malignant brain tumours. <i>Journal of Extracellular Vesicles</i> , 2019 , 8, 1588555	16.4	53

167	Glial growth factor-like activity in Schwann cell tumors. <i>Annals of Neurology</i> , 1986 , 20, 317-22	9.4	53
166	Extracellular RNA mediates and marks cancer progression. <i>Seminars in Cancer Biology</i> , 2014 , 28, 14-23	12.7	52
165	HSV-1-based vectors for gene therapy of neurological diseases and brain tumors: part II. Vector systems and applications. <i>Neoplasia</i> , 1999 , 1, 402-16	6.4	52
164	Monoamine oxidases A and B are differentially regulated by glucocorticoids and "aging" in human skin fibroblasts. <i>Cellular and Molecular Neurobiology</i> , 1986 , 6, 121-50	4.6	52
163	Properties of monoamine oxidase in control and Lesch-Nyhan fibroblasts. <i>Biochemical Genetics</i> , 1980 , 18, 577-90	2.4	52
162	Receptor binding activities of biotinylated derivatives of beta-nerve growth factor. <i>Journal of Neurochemistry</i> , 1986 , 46, 641-8	6	51
161	Live visualization of herpes simplex virus type 1 compartment dynamics. <i>Journal of Virology</i> , 2008 , 82, 4974-90	6.6	50
160	Specificity of antisera prepared against pure bovine MAO-B. <i>Brain Research</i> , 1983 , 276, 127-39	3.7	50
159	Intraarterial delivery of adenovirus vectors and liposome-DNA complexes to experimental brain neoplasms. <i>Human Gene Therapy</i> , 1999 , 10, 311-8	4.8	49
158	Distribution and ultrastructural localization of torsinA immunoreactivity in the human brain. <i>Brain Research</i> , 2003 , 986, 12-21	3.7	48
157	Potential Transfer of Polyglutamine and CAG-Repeat RNA in Extracellular Vesicles in Huntington's Disease: Background and Evaluation in Cell Culture. <i>Cellular and Molecular Neurobiology</i> , 2016 , 36, 459-70	4.6	48
156	Characterization of single microvesicles in plasma from glioblastoma patients. <i>Neuro-Oncology</i> , 2019 , 21, 606-615	1	48
155	Chemical enhancement of torsinA function in cell and animal models of torsion dystonia. <i>DMM Disease Models and Mechanisms</i> , 2010 , 3, 386-96	4.1	47
154	Genetic testing for early-onset torsion dystonia (DYT1): introduction of a simple screening method, experiences from testing of a large patient cohort, and ethical aspects. <i>Genetic Testing and Molecular Biomarkers</i> , 1999 , 3, 323-8		47
153	Herpes simplex virus type 1 amplicons and their hybrid virus partners, EBV, AAV, and retrovirus. <i>Current Gene Therapy</i> , 2004 , 4, 385-408	4.3	47
152	βSynuclein in Extracellular Vesicles: Functional Implications and Diagnostic Opportunities. <i>Cellular and Molecular Neurobiology</i> , 2016 , 36, 437-48	4.6	46
151	Search for a founder mutation in idiopathic focal dystonia from Northern Germany. <i>American Journal of Human Genetics</i> , 1998 , 63, 1777-82	11	46
150	Meeting report: discussions and preliminary findings on extracellular RNA measurement methods from laboratories in the NIH Extracellular RNA Communication Consortium. <i>Journal of Extracellular Vesicles</i> , 2015 , 4, 26533	16.4	45

149	In vivo imaging of HIV protease activity in amplicon vector-transduced gliomas. <i>Cancer Research</i> , 2004 , 64, 273-8	10.1	44
148	Monoamine oxidase and catechol-O-methyltransferase activities in cultured human skin fibroblasts. <i>Life Sciences</i> , 1976 , 19, 1705-10	6.8	43
147	Isolation, characterization, and recovery of small peptide phage display epitopes selected against viable malignant glioma cells. <i>Cancer Gene Therapy</i> , 2001 , 8, 506-11	5.4	42
146	Monoamine oxidase A and B in cultured cells. <i>Journal of Neurochemistry</i> , 1978 , 30, 1391-7	6	42
145	Secretion and Uptake of β -Synuclein Via Extracellular Vesicles in Cultured Cells. <i>Cellular and Molecular Neurobiology</i> , 2018 , 38, 1539-1550	4.6	42
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