Radim Jancalek

List of Publications by Year
in descending order

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57 papers	1,398 citations	331670 21 h-index	345221 36 g-index
59 all docs	59 docs citations	59 times ranked	2634 citing authors

#	Article	IF	Citations
1	Potential of MR spectroscopy for assessment of glioma grading. Clinical Neurology and Neurosurgery, 2013, 115, 146-153.	1.4	172
2	Why and how to spare the hippocampus during brain radiotherapy: the developing role of hippocampal avoidance in cranial radiotherapy. Radiation Oncology, 2014, 9, 139.	2.7	111
3	Bilateral changes of TNF-Î± and IL-10 protein in the lumbar and cervical dorsal root ganglia following a unilateral chronic constriction injury of the sciatic nerve. Journal of Neuroinflammation, 2010, 7, 11.	7.2	94
4	Intra- and Extraneuronal Changes of Immunofluorescence Staining for TNF- and TNFR1 in the Dorsal Root Ganglia of Rat Peripheral Neuropathic Pain Models. Cellular and Molecular Neurobiology, 2006, 26, 1203-1215.	3.3	86
5	Role of Inflammation and Cytokines in Peripheral Nerve Regeneration. International Review of Neurobiology, 2013, 108, 173-206.	2.0	86
6	Propionibacterium acnes biofilm is present in intervertebral discs of patients undergoing microdiscectomy. PLoS ONE, 2017, 12, e0174518.	2.5	81
7	Advanced MRI increases the diagnostic accuracy of recurrent glioblastoma: Single institution thresholds and validation of MR spectroscopy and diffusion weighted MR imaging. NeuroImage: Clinical, 2016, 11, 316-321.	2.7	76
8	Prevalence of Propionibacterium acnes in Intervertebral Discs of Patients Undergoing Lumbar Microdiscectomy: A Prospective Cross-Sectional Study. PLoS ONE, 2016, 11, e0161676.	2.5	63
9	Increased invasion of ED-1 positive macrophages in both ipsi- and contralateral dorsal root ganglia following unilateral nerve injuries. Neuroscience Letters, 2007, 427, 88-93.	2.1	49
10	MiR-338-5p sensitizes glioblastoma cells to radiation through regulation of genes involved in DNA damage response. Tumor Biology, 2016, 37, 7719-7727.	1.8	49
11	Radiotherapy of glioblastoma 15 years after the landmark Stuppâ€™s trial: more controversies than standards?. Radiology and Oncology, 2018, 52, 121-128.	1.7	42
12	Real-World Evidence in Glioblastoma: Stupp's Regimen After a Decade. Frontiers in Oncology, 2020, 10, 840.	2.8	41
13	The Diagnostic Ability of Follow-Up Imaging Biomarkers after Treatment of Glioblastoma in the Temozolomide Era: Implications from Proton MR Spectroscopy and Apparent Diffusion Coefficient Mapping. BioMed Research International, 2015, 2015, 1-9.	1.9	39
14	Post-WBRT cognitive impairment and hippocampal neuronal depletion measured by in vivo metabolic MR spectroscopy: Results of prospective investigational study. Radiotherapy and Oncology, 2017, 122, 373-379.	0.6	35
15	Bilateral changes of IL-10 protein in lumbar and cervical dorsal root ganglia following proximal and distal chronic constriction injury of peripheral nerve. Neuroscience Letters, 2011, 501, 86-91.	2.1	32
16	Risk Score based on microRNA expression signature is independent prognostic classifier of glioblastoma patients. Carcinogenesis, 2014, 35, 2756-2762.	2.8	30
17	The Open Brain Consent: Informing research participants and obtaining consent to share brain imaging data. Human Brain Mapping, 2021, 42, 1945-1951.	3.6	27
18	An experimental animal model of spinal root compression syndrome: an analysis of morphological changes of myelinated axons during compression radiculopathy and after decompression. Experimental Brain Research, 2007, 179, 111-119.	1.5	25

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19	Hippocampal proton MR spectroscopy as a novel approach in the assessment of radiation injury and the correlation to neurocognitive function impairment: initial experiences. Radiation Oncology, 2015, 10, 211.	2.7	25
20	Signaling mechanisms in mirror image pain pathogenesis. Annals of Neurosciences, 2011, 18, 123-7.	1.7	25
21	Signaling mechanisms in mirror image pain pathogenesis. Annals of Neurosciences, 2011, 18, .	1.7	22
22	Trends and outcomes for non-elective neurosurgical procedures in Central Europe during the COVID-19 pandemic. Scientific Reports, 2021, 11, 6171.	3.3	20
23	Subarachnoid Hemorrhage Induces Dynamic Immune Cell Reactions in the Choroid Plexus. Frontiers in Cellular Neuroscience, 2020, 14, 18.	3.7	14
24	Pro-Inflammatory and Neurotrophic Factor Responses of Cells Derived from Degenerative Human Intervertebral Discs to the Opportunistic Pathogen Cutibacterium acnes. International Journal of Molecular Sciences, 2021, 22, 2347.	4.1	14
25	Intervertebral disc penetration by antibiotics used prophylactically in spinal surgery: implications for the current standards and treatment of disc infections. European Spine Journal, 2019, 28, 783-791.	2.2	13
26	Blood-Brain Barrier Alterations and Edema Formation in Different Brain Mass Lesions. Frontiers in Cellular Neuroscience, 0, 16, .	3.7	13
27	Whole brain radiotherapy: Consequences for personalized medicine. Reports of Practical Oncology and Radiotherapy, 2013, 18, 133-138.	0.6	12
28	The role of theTP73gene and its transcripts in neuro-oncology. British Journal of Neurosurgery, 2014, 28, 598-605.	0.8	12
29	GliMR: Cross-Border Collaborations to Promote Advanced MRI Biomarkers for Glioma. Journal of Medical and Biological Engineering, 2021, 41, 115-125.	1.8	12
30	A heterogeneous immunofluorescence staining for laminin-1 and related basal lamina molecules in the dorsal root ganglia following constriction nerve injury. Histochemistry and Cell Biology, 2006, 125, 671-680.	1.7	10
31	Testing of library preparation methods for transcriptome sequencing of real life glioblastoma and brain tissue specimens: A comparative study with special focus on long non-coding RNAs. PLoS ONE, 2019, 14, e0211978.	2.5	7
32	Non-steroidal anti-inflammatory drugs in the pathophysiology of vasospasms and delayed cerebral ischemia following subarachnoid hemorrhage: a critical review. Neurosurgical Review, 2021, 44, 649-658.	2.4	7
33	Left hippocampus sparing whole brain radiotherapy (WBRT): A planning study. Biomedical Papers of the Medical Faculty of the University Palacký, Olomouc, Czechoslovakia, 2017, 161, 397-402.	0.6	7
34	A systematic review on the use of quantitative imaging to detect cancer therapy adverse effects in normal-appearing brain tissue. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2022, 35, 163-186.	2.0	7
35	Small RNA Sequencing Identifies PIWI-Interacting RNAs Deregulated in Glioblastomaâ€”piR-9491 and piR-12488 Reduce Tumor Cell Colonies In Vitro. Frontiers in Oncology, 2021, 11, 707017.	2.8	6
36	Immunohistochemical labelling of components of the endoneurial extracellular matrix of intact and rhizotomized dorsal and ventral spinal roots of the rat â€“ a quantitative evaluation using image analysis. Acta Histochemica, 2006, 107, 453-462.	1.8	5

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37	The Significance of MicroRNAs in the Molecular Pathology of Brain Metastases. Cancers, 2022, 14, 3386.	3.7	5
38	Volumetric modulated arc therapy for hippocampal-sparing radiotherapy in transformed low-grade glioma: A treatment planning case report. Cancer Radiotherapie: Journal De La Societe Francaise De Radiotherapie Oncologique, 2015, 19, 187-191.	1.4	4
39	Patterns of failure after brain metastases radiotherapy: reflections on the importance for treatment and clinical trials reporting. Neoplasma, 2017, 64, 329-337.	1.6	4
40	Incidence of Hippocampal Metastases: Laterality and Implications for Unilateral Hippocampal Avoiding Whole Brain Radiotherapy. BioMed Research International, 2018, 2018, 1-7.	1.9	4
41	Pre-Radiotherapy Progression after Surgery of Newly Diagnosed Glioblastoma: Corroboration of New Prognostic Variable. Diagnostics, 2020, 10, 676.	2.6	4
42	PATH-49. LIMITS OF IMMUNOHISTOCHEMISTRY IN DETECTION OF IDH1 MUTATIONS IN LOW GRADE GLIOMAS. Neuro-Oncology, 2017, 19, vi181-vi181.	1.2	1
43	Current approaches to the radiotherapy of brain metastases from solid tumors. Onkologie (Czech) Tj ETQq1 1 0.784314 rgBT /Overlo	0.1	1
44	NC-07 * CORRELATION OF MR SPECTROSCOPY IMAGE OF HIPPOCAMPUS REGION AND IMPAIRMENT OF NEUROCOGNITIVE FUNCTIONS IN PATIENTS AFTER WHOLE BRAIN RADIOTHERAPY - PRELIMINARY DATA. Neuro-Oncology, 2014, 16, v135-v135.	1.2	0
45	NI-71 * DEVELOPING ROLE OF ADVANCED MRI TECHNIQUES FOR DIAGNOSIS OF HIGH-GRADE GLIOMA RELAPSE AFTER COMPLEX ONCOLOGY TREATMENT. Neuro-Oncology, 2014, 16, v154-v154.	1.2	0
46	NTCT-06HIPPOCAMPAL PROTON MR SPECTROSCOPY IN THE ASSESSMENT OF RADIATION INJURY AND THE CORRELATION TO NEUROCOGNITIVE FUNCTION IMPAIRMENT. Neuro-Oncology, 2015, 17, v173.2-v173.	1.2	0
47	NIMG-45. THE ROLE OF MR SPECTROSCOPY AND DIFFUSION WEIGHTED MR IMAGING IN THE DIAGNOSIS OF GLIOBLASTOMA RELAPSE AFTER COMPLEX ONCOLOGY TREATMENT: FINAL RESULTS. Neuro-Oncology, 2016, 18, vi134-vi134.	1.2	0
48	OC-0350: Post-radiation neuronal depletion in hippocampus measured by in-vivo magnetic resonance spectroscopy. Radiotherapy and Oncology, 2016, 119, S161.	0.6	0
49	P14.101 Glioblastoma survival outcomes related to cortical/neural stem cells regions. Neuro-Oncology, 2019, 21, iii91-iii92.	1.2	0
50	P14.107 Rapid early progression of glioblastoma is not related to cortical/neural stem cells regions. Neuro-Oncology, 2019, 21, iii93-iii93.	1.2	0
51	GENE-03. SPECIFIC SIGNATURES OF microRNA IN CEREBROSPINAL FLUID OF PATIENTS WITH PRIMARY BRAIN TUMORS AND METASTASES. Neuro-Oncology, 2019, 21, vi98-vi98.	1.2	0
52	Subarachnoid Hemorrhage Increases Level of Heme Oxygenase-1 and Biliverdin Reductase in the Choroid Plexus. Frontiers in Cellular Neuroscience, 2020, 14, 593305.	3.7	0
53	Proton MR spectroscopy in neurooncology. Neurologie Pro Praxi, 2016, 17, 283-286.	0.1	0
54	Radiotherapy in brain metastases treatment. Neurologie Pro Praxi, 2016, 17, 293-297.	0.1	0

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55	Abstract 2459: Clinicopathological subgroups of glioblastoma patients are characterized by specific lncRNA expression patterns. , 2018, , .		0
56	Diagnosis, surgery and systemic treatment of brain metastases. Onkologie (Czech Republic), 2019, 13, 123-128.	0.1	0
57	Abstract 3575: Dysregulated expression of lncRNAs in glioblastoma multiforme and their association with overall survival. , 2019, , .		0