

Valentin Djonov

List of Publications by Citations

Source: <https://exaly.com/author-pdf/4819072/valentin-djonov-publications-by-citations.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

234
papers

11,333
citations

56
h-index

98
g-index

244
ext. papers

13,207
ext. citations

5.6
avg, IF

6.3
L-index

#	Paper	IF	Citations
234	Cell-demanded release of VEGF from synthetic, biointeractive cell ingrowth matrices for vascularized tissue growth. <i>FASEB Journal</i> , 2003 , 17, 2260-2	0.9	466
233	Flow regulates arterial-venous differentiation in the chick embryo yolk sac. <i>Development (Cambridge)</i> , 2004 , 131, 361-75	6.6	367
232	Cell-demanded liberation of VEGF121 from Fibrin implants induces local and controlled blood vessel growth. <i>Circulation Research</i> , 2004 , 94, 1124-32	15.7	327
231	Conditional switching of VEGF provides new insights into adult neovascularization and pro-angiogenic therapy. <i>EMBO Journal</i> , 2002 , 21, 1939-47	13	306
230	Ethical and Safety Issues of Stem Cell-Based Therapy. <i>International Journal of Medical Sciences</i> , 2018 , 15, 36-45	3.7	297
229	Consensus guidelines for the use and interpretation of angiogenesis assays. <i>Angiogenesis</i> , 2018 , 21, 425-53	5.3	285
228	Intussusceptive angiogenesis: its emergence, its characteristics, and its significance. <i>Developmental Dynamics</i> , 2004 , 231, 474-88	2.9	269
227	Intussusceptive angiogenesis: its role in embryonic vascular network formation. <i>Circulation Research</i> , 2000 , 86, 286-92	15.7	265
226	Vascular remodeling by intussusceptive angiogenesis. <i>Cell and Tissue Research</i> , 2003 , 314, 107-17	4.2	225
225	Chorioallantoic membrane capillary bed: a useful target for studying angiogenesis and anti-angiogenesis in vivo. <i>The Anatomical Record</i> , 2001 , 264, 317-24		207
224	Self-sufficient control of urate homeostasis in mice by a synthetic circuit. <i>Nature Biotechnology</i> , 2010 , 28, 355-60	44.5	202
223	Mesenchymal Stem Cell-Derived Exosomes and Other Extracellular Vesicles as New Remedies in the Therapy of Inflammatory Diseases. <i>Cells</i> , 2019 , 8,	7.9	190
222	Enzymatic formation of modular cell-instructive fibrin analogs for tissue engineering. <i>Biomaterials</i> , 2007 , 28, 3856-66	15.6	184
221	Vascular remodeling and antitumoral effects of mTOR inhibition in a rat model of hepatocellular carcinoma. <i>Journal of Hepatology</i> , 2007 , 46, 840-8	13.4	183
220	Intussusceptive angiogenesis--the alternative to capillary sprouting. <i>Molecular Aspects of Medicine</i> , 2002 , 23, S1-27	16.7	178
219	Molecular Mechanisms Responsible for Therapeutic Potential of Mesenchymal Stem Cell-Derived Secretome. <i>Cells</i> , 2019 , 8,	7.9	165
218	Optimality in the developing vascular system: branching remodeling by means of intussusception as an efficient adaptation mechanism. <i>Developmental Dynamics</i> , 2002 , 224, 391-402	2.9	160

217	Programmed cell death contributes to postnatal lung development. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 1998 , 18, 786-93	5.7	158
216	Intussusceptive angiogenesis and its role in vascular morphogenesis, patterning, and remodeling. <i>Angiogenesis</i> , 2009 , 12, 113-23	10.6	157
215	Vascular remodelling during the normal and malignant life cycle of the mammary gland. <i>Microscopy Research and Technique</i> , 2001 , 52, 182-9	2.8	143
214	Pulsatile shear and Gja5 modulate arterial identity and remodeling events during flow-driven arteriogenesis. <i>Development (Cambridge)</i> , 2010 , 137, 2187-96	6.6	138
213	FOXC2 and fluid shear stress stabilize postnatal lymphatic vasculature. <i>Journal of Clinical Investigation</i> , 2015 , 125, 3861-77	15.9	137
212	Design of custom-shaped vascularized tissues using microtissue spheroids as minimal building units. <i>Tissue Engineering</i> , 2006 , 12, 2151-60		133
211	EphB4 controls blood vascular morphogenesis during postnatal angiogenesis. <i>EMBO Journal</i> , 2006 , 25, 628-41	13	131
210	Molecular mechanisms of cisplatin-induced nephrotoxicity: a balance on the knife edge between renoprotection and tumor toxicity. <i>Journal of Biomedical Science</i> , 2019 , 26, 25	13.3	123
209	Postmortem angiography: review of former and current methods. <i>American Journal of Roentgenology</i> , 2007 , 188, 832-8	5.4	120
208	Intussusceptive angiogenesis: a biologically relevant form of angiogenesis. <i>Journal of Vascular Research</i> , 2012 , 49, 390-404	1.9	119
207	Significant correlation of hypoxia-inducible factor-1alpha with treatment outcome in cervical cancer treated with radical radiotherapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2003 , 56, 494-501	4	110
206	Distinct roles of vascular endothelial growth factor-D in lymphangiogenesis and metastasis. <i>American Journal of Pathology</i> , 2007 , 170, 1348-61	5.8	109
205	NADPH oxidase-independent formation of extracellular DNA traps by basophils. <i>Journal of Immunology</i> , 2014 , 192, 5314-23	5.3	107
204	VEGF-B-induced vascular growth leads to metabolic reprogramming and ischemia resistance in the heart. <i>EMBO Molecular Medicine</i> , 2014 , 6, 307-21	12	106
203	Transgenic system for conditional induction and rescue of chronic myocardial hibernation provides insights into genomic programs of hibernation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 282-7	11.5	106
202	Tumor recovery by angiogenic switch from sprouting to intussusceptive angiogenesis after treatment with PTK787/ZK222584 or ionizing radiation. <i>American Journal of Pathology</i> , 2008 , 173, 1173-85	5.8	94
201	Two-step postmortem angiography with a modified heart-lung machine: preliminary results. <i>American Journal of Roentgenology</i> , 2008 , 190, 345-51	5.4	93
200	Hypoxia-inducible factor 1 alpha in high-risk breast cancer: an independent prognostic parameter?. <i>Breast Cancer Research</i> , 2004 , 6, R191-8	8.3	93

199	Mesenchymal Stem Cell-Based Therapy of Inflammatory Lung Diseases: Current Understanding and Future Perspectives. <i>Stem Cells International</i> , 2019 , 2019, 4236973	5	92
198	Coronary optical frequency domain imaging (OFDI) for in vivo evaluation of stent healing: comparison with light and electron microscopy. <i>European Heart Journal</i> , 2010 , 31, 1792-801	9.5	90
197	Disruption of Notch1 induces vascular remodeling, intussusceptive angiogenesis, and angiosarcomas in livers of mice. <i>Gastroenterology</i> , 2012 , 142, 967-977.e2	13.3	89
196	Mesenchymal stem cell-derived factors: Immuno-modulatory effects and therapeutic potential. <i>BioFactors</i> , 2017 , 43, 633-644	6.1	83
195	Intussusceptive microvascular growth in tumors. <i>Cancer Letters</i> , 2012 , 316, 126-31	9.9	82
194	Involvement of the hepatocyte growth factor/scatter factor receptor c-met and of Bcl-xL in the resistance of oropharyngeal cancer to ionizing radiation. <i>International Journal of Cancer</i> , 2001 , 96, 41-54	7.5	79
193	Tenascin-C downregulates wnt inhibitor dickkopf-1, promoting tumorigenesis in a neuroendocrine tumor model. <i>Cell Reports</i> , 2013 , 5, 482-92	10.6	77
192	Postmortem angiography after vascular perfusion with diesel oil and a lipophilic contrast agent. <i>American Journal of Roentgenology</i> , 2006 , 187, W515-23	5.4	75
191	VEGF profiling and angiogenesis in human microtissues. <i>Journal of Biotechnology</i> , 2005 , 118, 213-29	3.7	75
190	Risks of Using Sterilization by Gamma Radiation: The Other Side of the Coin. <i>International Journal of Medical Sciences</i> , 2018 , 15, 274-279	3.7	68
189	PDGF-BB regulates splitting angiogenesis in skeletal muscle by limiting VEGF-induced endothelial proliferation. <i>Angiogenesis</i> , 2018 , 21, 883-900	10.6	67
188	Everolimus augments the effects of sorafenib in a syngeneic orthotopic model of hepatocellular carcinoma. <i>Molecular Cancer Therapeutics</i> , 2011 , 10, 1007-17	6.1	66
187	Anatomic considerations for the choice of surgical approach for hip resurfacing arthroplasty. <i>Orthopedic Clinics of North America</i> , 2005 , 36, 163-70, viii	3.5	64
186	A novel family of serine/threonine kinases participating in spermiogenesis. <i>Journal of Cell Biology</i> , 1997 , 139, 1851-9	7.3	63
185	Making vascular networks in the adult: branching morphogenesis without a roadmap. <i>Trends in Cell Biology</i> , 2003 , 13, 131-6	18.3	62
184	Angiogenesis and vascular remodeling by intussusception: from form to function. <i>Physiology</i> , 2003 , 18, 65-70	9.8	61
183	Intussusceptive angiogenesis: pillars against the blood flow. <i>Acta Physiologica</i> , 2011 , 202, 213-23	5.6	59
182	Applications of synchrotron X-rays to radiotherapy. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005 , 548, 17-22	1.2	59

181	Expression of stromelysin-1 and TIMP-1 in the involuting mammary gland and in early invasive tumors of the mouse. <i>International Journal of Cancer</i> , 1994 , 59, 560-8	7.5	58
180	Effects of microbeam radiation therapy on normal and tumoral blood vessels. <i>Physica Medica</i> , 2015 , 31, 634-41	2.7	57
179	VEGF over-expression in skeletal muscle induces angiogenesis by intussusception rather than sprouting. <i>Angiogenesis</i> , 2013 , 16, 123-36	10.6	57
178	MMP-19: cellular localization of a novel metalloproteinase within normal breast tissue and mammary gland tumours. <i>Journal of Pathology</i> , 2001 , 195, 147-55	9.4	52
177	Mesenchymal stem cells attenuate acute liver injury by altering ratio between interleukin 17 producing and regulatory natural killer T cells. <i>Liver Transplantation</i> , 2017 , 23, 1040-1050	4.5	51
176	Microvascular endowment in the developing chicken embryo lung. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2007 , 292, L1136-46	5.8	51
175	Tissue-transplant fusion and vascularization of myocardial microtissues and macrotissues implanted into chicken embryos and rats. <i>Tissue Engineering</i> , 2006 , 12, 2541-53		51
174	Correlation between the tumoral expression of beta3-integrin and outcome in cervical cancer patients who had undergone radiotherapy. <i>British Journal of Cancer</i> , 2005 , 92, 41-6	8.7	51
173	Molecular mechanisms underlying therapeutic potential of pericytes. <i>Journal of Biomedical Science</i> , 2018 , 25, 21	13.3	50
172	Engineered fibrin matrices for functional display of cell membrane-bound growth factor-like activities: study of angiogenic signaling by ephrin-B2. <i>Biomaterials</i> , 2004 , 25, 3245-57	15.6	50
171	The mammary gland vasculature revisited. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2010 , 15, 319-28	2.4	49
170	Structural decoding of netrin-4 reveals a regulatory function towards mature basement membranes. <i>Nature Communications</i> , 2016 , 7, 13515	17.4	48
169	Inhibition of Notch signaling induces extensive intussusceptive neo-angiogenesis by recruitment of mononuclear cells. <i>Angiogenesis</i> , 2013 , 16, 921-37	10.6	47
168	Recombinant human erythropoietin induces intussusceptive microvascular growth in vivo. <i>Leukemia</i> , 2004 , 18, 331-6	10.7	47
167	Mesenchymal stem cells attenuate liver fibrosis by suppressing Th17 cells - an experimental study. <i>Transplant International</i> , 2018 , 31, 102-115	3	47
166	Caveolin-1 is required for signaling and membrane targeting of EphB1 receptor tyrosine kinase. <i>Journal of Cell Science</i> , 2006 , 119, 2299-309	5.3	46
165	Response of the rat spinal cord to X-ray microbeams. <i>Radiotherapy and Oncology</i> , 2013 , 106, 106-11	5.3	45
164	Microvascular growth, development, and remodeling in the embryonic avian kidney: the interplay between sprouting and intussusceptive angiogenic mechanisms. <i>Microscopy Research and Technique</i> , 2005 , 66, 275-88	2.8	45

163	Therapeutic Potential of Mesenchymal Stem Cell-Derived Exosomes in the Treatment of Eye Diseases. <i>Advances in Experimental Medicine and Biology</i> , 2018 , 1089, 47-57	3.6	45
162	Angiophil-mediated visualization of the vascular system by microcomputed tomography: a feasibility study. <i>Microscopy Research and Technique</i> , 2008 , 71, 551-6	2.8	43
161	Microbeam radiation-induced tissue damage depends on the stage of vascular maturation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2011 , 80, 1522-32	4	42
160	Excessive erythrocytosis in adult mice overexpressing erythropoietin leads to hepatic, renal, neuronal, and muscular degeneration. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006 , 291, R947-56	3.2	42
159	Intratumoral microvessel density predicts local treatment failure of radically irradiated squamous cell cancer of the oropharynx. <i>International Journal of Radiation Oncology Biology Physics</i> , 2000 , 48, 17-25	4	42
158	Microbeam radiation therapy - grid therapy and beyond: a clinical perspective. <i>British Journal of Radiology</i> , 2017 , 90, 20170073	3.4	41
157	Placental growth factor-1 attenuates vascular endothelial growth factor-A-dependent tumor angiogenesis during beta cell carcinogenesis. <i>Cancer Research</i> , 2007 , 67, 10840-8	10.1	41
156	Molecular Mechanisms Responsible for Anti-inflammatory and Immunosuppressive Effects of Mesenchymal Stem Cell-Derived Factors. <i>Advances in Experimental Medicine and Biology</i> , 2019 , 1084, 187-206	3.6	41
155	Mesenchymal Stem Cell-Dependent Modulation of Liver Diseases. <i>International Journal of Biological Sciences</i> , 2017 , 13, 1109-1117	11.2	40
154	Protein tyrosine kinase expression during the estrous cycle and carcinogenesis of the mammary gland. <i>International Journal of Cancer</i> , 1995 , 63, 288-96	7.5	40
153	Early markers for myocardial ischemia and sudden cardiac death. <i>International Journal of Legal Medicine</i> , 2016 , 130, 1265-80	3.1	40
152	Dual Role of Mesenchymal Stem Cells Allows for Microvascularized Bone Tissue-Like Environments in PEG Hydrogels. <i>Advanced Healthcare Materials</i> , 2016 , 5, 489-98	10.1	40
151	Surgical exposures and options for instrumentation in acetabular fracture fixation: Pararectus approach versus the modified Stoppa. <i>Injury</i> , 2016 , 47, 695-701	2.5	39
150	A transgenic model for conditional induction and rescue of portal hypertension reveals a role of VEGF-mediated regulation of sinusoidal fenestrations. <i>PLoS ONE</i> , 2011 , 6, e21478	3.7	38
149	A synthetic biology-based device prevents liver injury in mice. <i>Journal of Hepatology</i> , 2016 , 65, 84-94	13.4	38
148	Therapeutic protein transduction of mammalian cells and mice by nucleic acid-free lentiviral nanoparticles. <i>Nucleic Acids Research</i> , 2006 , 34, e16	20.1	37
147	Heterophilic interactions between cell adhesion molecule L1 and alphavbeta3-integrin induce HUVEC process extension in vitro and angiogenesis in vivo. <i>Angiogenesis</i> , 2004 , 7, 213-23	10.6	36
146	Mesenchymal stem cells protect from acute liver injury by attenuating hepatotoxicity of liver natural killer T cells in an inducible nitric oxide synthase- and indoleamine 2,3-dioxygenase-dependent manner. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, e1173-e1185	4.4	35

145	Synergistic interaction of sprouting and intussusceptive angiogenesis during zebrafish caudal vein plexus development. <i>Scientific Reports</i> , 2018 , 8, 9840	4.9	35
144	Effects of protein and gene transfer of the angiopoietin-1 fibrinogen-like receptor-binding domain on endothelial and vessel organization. <i>Journal of Biological Chemistry</i> , 2005 , 280, 22445-53	5.4	35
143	Understanding High-Dose, Ultra-High Dose Rate, and Spatially Fractionated Radiation Therapy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020 , 107, 766-778	4	34
142	VEGF-A promotes intussusceptive angiogenesis in the developing chicken chorioallantoic membrane. <i>Microcirculation</i> , 2010 , 17, 447-57	2.9	34
141	MMP19 is upregulated during melanoma progression and increases invasion of melanoma cells. <i>Modern Pathology</i> , 2010 , 23, 511-21	9.8	34
140	Decrease in VEGF expression induces intussusceptive vascular pruning. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011 , 31, 2836-44	9.4	34
139	Escape mechanisms after antiangiogenic treatment, or why are the tumors growing again?. <i>International Journal of Developmental Biology</i> , 2011 , 55, 563-7	1.9	34
138	Therapeutic Use of Mesenchymal Stem Cell-Derived Exosomes: From Basic Science to Clinics. <i>Pharmaceutics</i> , 2020 , 12,	6.4	33
137	Split for the cure: VEGF, PDGF-BB and intussusception in therapeutic angiogenesis. <i>Biochemical Society Transactions</i> , 2014 , 42, 1637-42	5.1	33
136	Self-assembly of sensory neurons into ganglia-like microtissues. <i>Journal of Biotechnology</i> , 2006 , 121, 86-101	3.7	33
135	Therapeutic Potential of Mesenchymal Stem Cells and Their Secretome in the Treatment of Glaucoma. <i>Stem Cells International</i> , 2019 , 2019, 7869130	5	33
134	Correlative Imaging of the Murine Hind Limb Vasculature and Muscle Tissue by MicroCT and Light Microscopy. <i>Scientific Reports</i> , 2017 , 7, 41842	4.9	32
133	Expression of smooth muscle markers in the developing murine lung: potential contractile properties and lineal descent. <i>Histochemistry and Cell Biology</i> , 1998 , 110, 273-84	2.4	32
132	Permeability of Brain Tumor Vessels Induced by Uniform or Spatially Microfractionated Synchrotron Radiation Therapies. <i>International Journal of Radiation Oncology Biology Physics</i> , 2017 , 98, 1174-1182	4	30
131	Arteriolization of capillaries and FGF-2 upregulation in skeletal muscles of patients with chronic peripheral arterial disease. <i>Microcirculation</i> , 2005 , 12, 527-37	2.9	30
130	Targeting class IA PI3K isoforms selectively impairs cell growth, survival, and migration in glioblastoma. <i>PLoS ONE</i> , 2014 , 9, e94132	3.7	30
129	Notch-inducing hydrogels reveal a perivascular switch of mesenchymal stem cell fate. <i>EMBO Reports</i> , 2018 , 19,	6.5	30
128	Crosstalk between mesenchymal stem cells and T regulatory cells is crucially important for the attenuation of acute liver injury. <i>Liver Transplantation</i> , 2018 , 24, 687-702	4.5	29

127	Increased Proangiogenic Activity of Mobilized CD34+ Progenitor Cells of Patients With Acute ST-Segment-Elevation Myocardial Infarction: Role of Differential MicroRNA-378 Expression. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017 , 37, 341-349	9.4	28
126	Regenerative capacity of individual liver lobes in the microsurgical mouse model. <i>Microsurgery</i> , 2006 , 26, 465-9	2.1	28
125	The role of Interleukin 1 receptor antagonist in mesenchymal stem cell-based tissue repair and regeneration. <i>BioFactors</i> , 2020 , 46, 263-275	6.1	28
124	Counteracting age-related VEGF signaling insufficiency promotes healthy aging and extends life span. <i>Science</i> , 2021 , 373,	33.3	28
123	Reconstruction of the medial patellofemoral ligament using the adductor magnus tendon: an anatomic study. <i>Arthroscopy - Journal of Arthroscopic and Related Surgery</i> , 2012 , 28, 105-9	5.4	26
122	Parabronchial angioarchitecture in developing and adult chickens. <i>Journal of Applied Physiology</i> , 2009 , 106, 1959-69	3.7	26
121	Expression of transforming growth factor-alpha, epidermal growth factor receptor and platelet-derived growth factors A and B in oropharyngeal cancers treated by curative radiation therapy. <i>Radiotherapy and Oncology</i> , 2002 , 63, 275-83	5.3	26
120	Synchrotron microbeam irradiation induces neutrophil infiltration, thrombocyte attachment and selective vascular damage in vivo. <i>Scientific Reports</i> , 2016 , 6, 33601	4.9	26
119	Transforming growth factor-beta 3 is expressed in nondividing basal epithelial cells in normal human prostate and benign prostatic hyperplasia, and is no longer detectable in prostate carcinoma. <i>Prostate</i> , 1997 , 31, 103-9	4.2	25
118	Ultra high dose rate Synchrotron Microbeam Radiation Therapy. Preclinical evidence in view of a clinical transfer. <i>Radiotherapy and Oncology</i> , 2019 , 139, 56-61	5.3	24
117	Matrix metalloproteinases and angiogenic factors: predictors of survival after radical prostatectomy for clinically organ-confined prostate cancer?. <i>American Journal of Pathology</i> , 2010 , 177, 2216-24	5.8	24
116	Basement membrane remodeling in skeletal muscles of patients with limb ischemia involves regulation of matrix metalloproteinases and tissue inhibitor of matrix metalloproteinases. <i>Journal of Vascular Research</i> , 2007 , 44, 202-13	1.9	24
115	The effects of PTK787/ZK222584, an inhibitor of VEGFR and PDGFR pathways, on intussusceptive angiogenesis and glomerular recovery from Thy1.1 nephritis. <i>American Journal of Pathology</i> , 2011 , 178, 1899-912	5.8	23
114	Galectin 3 protects from cisplatin-induced acute kidney injury by promoting TLR-2-dependent activation of IDO1/Kynurenine pathway in renal DCs. <i>Theranostics</i> , 2019 , 9, 5976-6001	12.1	22
113	Human IgA Fc receptor FcRI (CD89) triggers different forms of neutrophil death depending on the inflammatory microenvironment. <i>Journal of Immunology</i> , 2014 , 193, 5649-59	5.3	22
112	Mesenchymal Stem Cells Promote Metastasis of Lung Cancer Cells by Downregulating Systemic Antitumor Immune Response. <i>Stem Cells International</i> , 2017 , 2017, 6294717	5	22
111	The Phosphoinositide 3-Kinase p110 β Isoform Regulates Leukemia Inhibitory Factor Receptor Expression via c-Myc and miR-125b to Promote Cell Proliferation in Medulloblastoma. <i>PLoS ONE</i> , 2015 , 10, e0123958	3.7	22
110	SDF-1/CXCR4 signalling is involved in blood vessel growth and remodelling by intussusception. <i>Journal of Cellular and Molecular Medicine</i> , 2019 , 23, 3916-3926	5.6	21

109	Intraperitoneal administration of mesenchymal stem cells ameliorates acute dextran sulfate sodium-induced colitis by suppressing dendritic cells. <i>Biomedicine and Pharmacotherapy</i> , 2018 , 100, 426-432	7.5	21
108	The synergistic action of a VEGF-receptor tyrosine-kinase inhibitor and a sensitizing PDGF-receptor blocker depends upon the stage of vascular maturation. <i>Microcirculation</i> , 2007 , 14, 813-25	2.9	21
107	Impairment of rat postnatal lung alveolar development by glucocorticoids: involvement of the p21CIP1 and p27KIP1 cyclin-dependent kinase inhibitors. <i>Pediatric Research</i> , 2002 , 51, 169-76	3.2	21
106	Dynamics of the Developing Chick Chorioallantoic Membrane Assessed by Stereology, Allometry, Immunohistochemistry and Molecular Analysis. <i>PLoS ONE</i> , 2016 , 11, e0152821	3.7	21
105	Endoglin inhibition leads to intussusceptive angiogenesis via activation of factors related to COUP-TFII signaling pathway. <i>PLoS ONE</i> , 2017 , 12, e0182813	3.7	19
104	Synchrotron Microbeam Radiation Therapy as a New Approach for the Treatment of Radioresistant Melanoma: Potential Underlying Mechanisms. <i>International Journal of Radiation Oncology Biology Physics</i> , 2019 , 105, 1126-1136	4	19
103	Podocyte EphB4 signaling helps recovery from glomerular injury. <i>Kidney International</i> , 2012 , 81, 1212-25	9.9	19
102	Nitric oxide regulates intussusceptive-like angiogenesis in wound repair in chicken embryo and transgenic zebrafish models. <i>Nitric Oxide - Biology and Chemistry</i> , 2019 , 82, 48-58	5	19
101	Casting materials and their application in research and teaching. <i>Microscopy and Microanalysis</i> , 2014 , 20, 493-513	0.5	18
100	Development and remodeling of the vertebrate blood-gas barrier. <i>BioMed Research International</i> , 2013 , 2013, 101597	3	18
99	Development and spatial organization of the air conduits in the lung of the domestic fowl, <i>Gallus gallus</i> variant <i>domesticus</i> . <i>Microscopy Research and Technique</i> , 2008 , 71, 689-702	2.8	18
98	Chronic excessive erythrocytosis induces endothelial activation and damage in mouse brain. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2006 , 290, R678-84	3.2	18
97	Therapeutic Potential of Amniotic Fluid Derived Mesenchymal Stem Cells Based on their Differentiation Capacity and Immunomodulatory Properties. <i>Current Stem Cell Research and Therapy</i> , 2019 , 14, 327-336	3.6	18
96	VEGF-B Promotes Endocardium-Derived Coronary Vessel Development and Cardiac Regeneration. <i>Circulation</i> , 2021 , 143, 65-77	16.7	18
95	Cutting-edge microangio-CT: new dimensions in vascular imaging and kidney morphometry. <i>American Journal of Physiology - Renal Physiology</i> , 2018 , 314, F493-F499	4.3	18
94	NGS nominated CELA1, HSPG2, and KCNK5 as candidate genes for predisposition to Balkan endemic nephropathy. <i>BioMed Research International</i> , 2014 , 2014, 920723	3	17
93	RNA interference screening identifies a novel role for autocrine fibroblast growth factor signaling in neuroblastoma chemoresistance. <i>Oncogene</i> , 2013 , 32, 3944-53	9.2	17
92	Epithelial transformations in the establishment of the blood-gas barrier in the developing chick embryo lung. <i>Developmental Dynamics</i> , 2006 , 235, 68-81	2.9	17

91	New insights into intussusceptive angiogenesis. <i>Exs</i> , 2005 , 17-33		17
90	EphB4 receptor tyrosine kinase transgenic mice develop glomerulopathies reminiscent of aglomerular vascular shunts. <i>Mechanisms of Development</i> , 2003 , 120, 511-6	1.7	16
89	Structure and hemodynamics of vascular networks in the chorioallantoic membrane of the chicken. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016 , 311, H913-H926	5.2	16
88	Molecular and Cellular Mechanisms Responsible for Beneficial Effects of Mesenchymal Stem Cell-Derived Product "Exo-d-MAPPS" in Attenuation of Chronic Airway Inflammation. <i>Analytical Cellular Pathology</i> , 2020 , 2020, 3153891	3.4	16
87	Characterization of a B16-F10 melanoma model locally implanted into the ear pinnae of C57BL/6 mice. <i>PLoS ONE</i> , 2018 , 13, e0206693	3.7	16
86	Mesenchymal Stem Cells Attenuate Cisplatin-Induced Nephrotoxicity in iNOS-Dependent Manner. <i>Stem Cells International</i> , 2017 , 2017, 1315378	5	15
85	Spatial and functional relationships between air conduits and blood capillaries in the pulmonary gas exchange tissue of adult and developing chickens. <i>Microscopy Research and Technique</i> , 2011 , 74, 159-69	2.8	15
84	Zebrafish Caudal Fin Angiogenesis Assay-Advanced Quantitative Assessment Including 3-Way Correlative Microscopy. <i>PLoS ONE</i> , 2016 , 11, e0149281	3.7	15
83	Effects of Synchrotron X-Ray Micro-beam Irradiation on Normal Mouse Ear Pinnae. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018 , 101, 680-689	4	15
82	Whole genome methylation array analysis reveals new aspects in Balkan endemic nephropathy etiology. <i>BMC Nephrology</i> , 2013 , 14, 225	2.7	14
81	An anatomical investigation of the cervicothoracic ganglion. <i>Clinical Anatomy</i> , 2012 , 25, 444-51	2.5	14
80	Annexins as cell-type-specific markers in the developing chicken chorionallantoic membrane. <i>Cell and Tissue Research</i> , 2006 , 323, 395-404	4.2	14
79	The influence of trauma and ischemia on carbohydrate metabolites monitored in hamster flap tissue. <i>Anesthesia and Analgesia</i> , 2005 , 100, 817-822	3.9	14
78	RNA interference screening identifies a novel role for PCTK1/CDK16 in medulloblastoma with c-Myc amplification. <i>Oncotarget</i> , 2015 , 6, 116-29	3.3	14
77	Therapeutic Potential of Mesenchymal Stem Cells and Their Secretome in the Treatment of SARS-CoV-2-Induced Acute Respiratory Distress Syndrome. <i>Analytical Cellular Pathology</i> , 2020 , 2020, 1939768	3.4	14
76	The Cross-Talk between Mesenchymal Stem Cells and Immune Cells in Tissue Repair and Regeneration. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	14
75	Mesenchymal Stem Cell-Derived Exosomes as New Remedy for the Treatment of Neurocognitive Disorders. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	14
74	Indoleamine 2,3-dioxygenase-dependent expansion of T-regulatory cells maintains mucosal healing in ulcerative colitis. <i>Therapeutic Advances in Gastroenterology</i> , 2018 , 11, 1756284818793558	4.7	14

73	Tumor cell specific expression of MMP-2 correlates with tumor vascularisation in breast cancer. <i>International Journal of Oncology</i> , 2002 , 21, 25-30	1	13
72	Neuropilin1 regulates glomerular function and basement membrane composition through pericytes in the mouse kidney. <i>Kidney International</i> , 2017 , 91, 868-879	9.9	11
71	Prognostic value of matrix metalloproteinases in oral squamous cell carcinoma. <i>Biotechnology and Biotechnological Equipment</i> , 2014 , 28, 1138-1149	1.6	11
70	Deregulated ephrin-B2 expression in the mammary gland interferes with the development of both the glandular epithelium and vasculature and promotes metastasis formation. <i>International Journal of Oncology</i> , 2009 , 35, 525-36	1	11
69	Sorting of murine vascular smooth muscle cells during wound healing in the chicken chorioallantoic membrane. <i>Experimental Cell Research</i> , 1999 , 253, 599-606	4.2	11
68	Galectin-3 Regulates Indoleamine-2,3-dioxygenase-Dependent Cross-Talk between Colon-Infiltrating Dendritic Cells and T Regulatory Cells and May Represent a Valuable Biomarker for Monitoring the Progression of Ulcerative Colitis. <i>Cells</i> , 2019 , 8,	7.9	10
67	Interference with Gs-Coupled Receptor Signaling in Renin-Producing Cells Leads to Renal Endothelial Damage. <i>Journal of the American Society of Nephrology: JASN</i> , 2017 , 28, 3479-3489	12.7	10
66	The pulmonary blood-gas barrier in the avian embryo: inauguration, development and refinement. <i>Respiratory Physiology and Neurobiology</i> , 2011 , 178, 30-8	2.8	9
65	Adaptation mechanism of the adult zebrafish respiratory organ to endurance training. <i>PLoS ONE</i> , 2020 , 15, e0228333	3.7	8
64	Animal Models in Microbeam Radiation Therapy: A Scoping Review. <i>Cancers</i> , 2020 , 12,	6.6	8
63	Mast cells and macrophages in duodenal mucosa of mice overexpressing erythropoietin. <i>Journal of Anatomy</i> , 2009 , 215, 548-54	2.9	8
62	Matrix Metalloproteinase-19 is a Predictive Marker for Tumor Invasiveness in Patients with Oropharyngeal Squamous Cell Carcinoma. <i>International Journal of Biological Markers</i> , 2007 , 22, 265-273	2.8	8
61	ATG12 deficiency leads to tumor cell oncosis owing to diminished mitochondrial biogenesis and reduced cellular bioenergetics. <i>Cell Death and Differentiation</i> , 2020 , 27, 1965-1980	12.7	8
60	Generation of a murine hepatic angiosarcoma cell line and reproducible mouse tumor model. <i>Laboratory Investigation</i> , 2015 , 95, 351-62	5.9	7
59	The anatomy of the male inferior hypogastric plexus: What should we know for nerve sparing surgery. <i>Clinical Anatomy</i> , 2018 , 31, 788-796	2.5	7
58	Combined maceration procedure permits advanced microsurgical dissection of Thiel-embalmed specimens. <i>Annals of Anatomy</i> , 2017 , 210, 9-17	2.9	7
57	High-Spatial-Resolution Three-dimensional Imaging of Human Spinal Cord and Column Anatomy with Postmortem X-ray Phase-Contrast Micro-CT. <i>Radiology</i> , 2021 , 298, 135-146	20.5	7
56	Percutaneous screw fixation of the iliosacral joint: A case-based preoperative planning approach reduces operating time and radiation exposure. <i>Injury</i> , 2017 , 48, 1825-1830	2.5	6

55	Distribution and Restoration of Serotonin-Immunoreactive Paraneuronal Cells During Caudal Fin Regeneration in Zebrafish. <i>Frontiers in Molecular Neuroscience</i> , 2019 , 12, 227	6.1	6
54	Anatomy of the female pelvic nerves: a macroscopic study of the hypogastric plexus and their relations and variations. <i>Journal of Anatomy</i> , 2020 , 237, 487-494	2.9	6
53	Pre-hatch lung development in the ostrich. <i>Respiratory Physiology and Neurobiology</i> , 2012 , 180, 183-92	2.8	6
52	Splitting of circulating red blood cells as an mechanism of erythrocyte maturation in developing zebrafish, chick and mouse embryos. <i>Journal of Experimental Biology</i> , 2018 , 221,	3	6
51	Angiogenesis in development and cancer today. <i>International Journal of Developmental Biology</i> , 2011 , 55, 343-4	1.9	6
50	Modeling the Behavior of Red Blood Cells within the Caudal Vein Plexus of Zebrafish. <i>Frontiers in Physiology</i> , 2016 , 7, 455	4.6	6
49	Ex vivo microangiCT: Advances in microvascular imaging. <i>Vascular Pharmacology</i> , 2019 , 112, 2-7	5.9	6
48	Brain ultrasound rehearsal before surgery: A pilot cadaver study. <i>Clinical Anatomy</i> , 2017 , 30, 1017-1023	2.5	5
47	Loss of beta1-integrin-deficient cells during the development of endoderm-derived epithelia. <i>Anatomy and Embryology</i> , 2003 , 207, 283-8		5
46	Morphological Aspects of Tumor Angiogenesis. <i>Methods in Molecular Biology</i> , 2016 , 1464, 13-24	1.4	5
45	Complete Remission of Mouse Melanoma after Temporally Fractionated Microbeam Radiotherapy. <i>Cancers</i> , 2020 , 12,	6.6	5
44	Synchrotron X-Ray Radiation-Induced Bystander Effect: An Impact of the Scattered Radiation, Distance From the Irradiated Site and p53 Cell Status. <i>Frontiers in Oncology</i> , 2021 , 11, 685598	5.3	5
43	A Mouse Model for Microbeam Radiation Therapy of the Lung. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 110, 521-525	4	5
42	Prevention of cement leakage into the hip joint by a standard cement plug during PFN-A cement augmentation: a technical note. <i>Archives of Orthopaedic and Trauma Surgery</i> , 2016 , 136, 747-50	3.6	4
41	The Pararectus approach provides secure access to the deep circumflex iliac vessel for harvest of a large sized and vascularized segment of the iliac crest. <i>Injury</i> , 2017 , 48, 2169-2173	2.5	4
40	Three-Dimensional Structure and Disposition of the Air Conducting and Gas Exchange Conduits of the Avian Lung: The Domestic Duck (<i>Cairina moschata</i>). <i>ISRN Anatomy</i> , 2014 , 2014, 621982		4
39	A pedicled bone graft from the acromion: an anatomical investigation regarding surgical feasibility. <i>Journal of Shoulder and Elbow Surgery</i> , 2012 , 21, 604-11	4.3	4
38	Antiaggregatory and proangiogenic effects of a novel recombinant human dual specificity anti-integrin antibody. <i>Journal of Thrombosis and Haemostasis</i> , 2009 , 7, 460-9	15.4	4

37	Ectopic expression of delta FBJ murine osteosarcoma viral oncogene homolog B mediates transdifferentiation of adipose-like spheroids into osteo-like microtissues. <i>Tissue Engineering - Part A</i> , 2008 , 14, 1377-94	3.9	4
36	Microbeam Radiotherapy-A Novel Therapeutic Approach to Overcome Radioresistance and Enhance Anti-Tumour Response in Melanoma. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
35	BIF-1 inhibits both mitochondrial and glycolytic ATP production: its downregulation promotes melanoma growth. <i>Oncogene</i> , 2020 , 39, 4944-4955	9.2	3
34	Synchrotron X-Ray Boost Delivered by Microbeam Radiation Therapy After Conventional X-Ray Therapy Fractionated in Time Improves F98 Glioma Control. <i>International Journal of Radiation Oncology Biology Physics</i> , 2020 , 107, 360-369	4	3
33	Pharmacological Modulation of Hemodynamics in Adult Zebrafish In Vivo. <i>PLoS ONE</i> , 2016 , 11, e0150948	9.7	3
32	Matrix metalloproteinase-19 is a predictive marker for tumor invasiveness in patients with oropharyngeal squamous cell carcinoma. <i>International Journal of Biological Markers</i> , 2007 , 22, 265-273	2.8	3
31	Avian area vasculosa and CAM as rapid in vivo pro-angiogenic and antiangiogenic models. <i>Methods in Molecular Biology</i> , 2015 , 1214, 185-96	1.4	3
30	The anatomical reliability of the superficial circumflex iliac artery perforator (SCIP) flap. <i>Annals of Anatomy</i> , 2021 , 234, 151624	2.9	3
29	Unexpected Benefits of Multiport Synchrotron Microbeam Radiation Therapy for Brain Tumors. <i>Cancers</i> , 2021 , 13,	6.6	3
28	Synchrotron Microbeam Radiation Therapy for the Treatment of Lung Carcinoma: A Preclinical Study. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 , 111, 1276-1288	4	3
27	Prenatal and Postnatal Development of the Vertebrate Blood-Brain Barrier 2015 , 39-64		2
26	Molecular pathogenesis of spontaneous abortions - Whole genome copy number analysis and expression of angiogenic factors. <i>Taiwanese Journal of Obstetrics and Gynecology</i> , 2020 , 59, 99-104	1.6	2
25	Symbol/Meaning paired-associate recall: an "archetypal memory" advantage?. <i>Behavioral Sciences (Basel, Switzerland)</i> , 2013 , 3, 541-61	2.3	2
24	Angiofil: a novel radio-contrast agent for post-mortem micro-angiography 2008 ,		2
23	The Effects of Mesenchymal Stem Cells on Antimelanoma Immunity Depend on the Timing of Their Administration. <i>Stem Cells International</i> , 2020 , 2020, 8842659	5	2
22	Molecular Mechanisms Responsible for Mesenchymal Stem Cell-Based Treatment of Viral Diseases. <i>Pathogens</i> , 2021 , 10,	4.5	2
21	Everolimus dual effects of an area vasculosa angiogenesis and lymphangiogenesis. <i>In Vivo</i> , 2013 , 27, 61-6	2.3	2
20	Role of Notch, SDF-1 and Mononuclear Cells Recruitment in Angiogenesis 2017 ,		1

19	X-ray phase contrast imaging of metallized and non-metallized biological samples. <i>Zeitschrift Fur Medizinische Physik</i> , 2006 , 16, 172-8	7.6	1
18	Non-conventional Ultra-High Dose Rate (FLASH) Microbeam Radiotherapy Provides Superior Normal Tissue Sparing in Rat Lung Compared to Non-conventional Ultra-High Dose Rate (FLASH) Radiotherapy.. <i>Cureus</i> , 2021 , 13, e19317	1.2	1
17	X-ray Phase Contrast 3D virtual histology: evaluation of lung alterations after micro-beam irradiation. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021 ,	4	1
16	The Contribution of the Left Phrenic Nerve to Innervation of the Esophagogastric Junction. <i>Clinical Anatomy</i> , 2020 , 33, 265-274	2.5	1
15	IgA Triggers Cell Death of Neutrophils When Primed by Inflammatory Mediators. <i>Journal of Immunology</i> , 2020 , 205, 2640-2648	5.3	1
14	Transient and Efficient Vascular Permeability Window for Adjuvant Drug Delivery Triggered by Microbeam Radiation. <i>Cancers</i> , 2021 , 13,	6.6	1
13	Micro-CT imaging of Thiel-embalmed and iodine-stained human temporal bone for 3D modeling. <i>Journal of Otolaryngology - Head and Neck Surgery</i> , 2021 , 50, 33	5.4	1
12	Collagen fibers provide guidance cues for capillary regrowth during regenerative angiogenesis in zebrafish. <i>Scientific Reports</i> , 2021 , 11, 19520	4.9	1
11	Innovative high-resolution microCT imaging of animal brain vasculature. <i>Brain Structure and Function</i> , 2020 , 225, 2885-2895	4	0
10	Effect of Lateral Sliding Calcaneus Osteotomy on Tarsal Tunnel Pressure.. <i>Foot & Ankle Orthopaedics</i> , 2020 , 5, 2473011420931015	0.7	0
9	Non-Targeted Effects of Synchrotron Radiation: Lessons from Experiments at the Australian and European Synchrotrons. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 2079	2.6	0
8	Genetic, Genomic and Epigenomic Studies of Balkan Endemic Nephropathy (Ben). <i>Prilozi - Makedonska Akademija Na Naukite I Umetnostite Oddelenie Za Medicinski Nauki</i> , 2015 , 36, 101-8	0.5	
7	High-Throughput Glomeruli Analysis of (mu)CT Kidney Images Using Tree Priors and Scalable Sparse Computation. <i>Lecture Notes in Computer Science</i> , 2016 , 370-378	0.9	
6	Quantitative Assessment of Brain Tumor Radiation Treatment Reveals Decrease in Tumor-supporting Vessels. <i>Microscopy and Microanalysis</i> , 2018 , 24, 374-375	0.5	
5	Adaptation mechanism of the adult zebrafish respiratory organ to endurance training 2020 , 15, e0228333		
4	Adaptation mechanism of the adult zebrafish respiratory organ to endurance training 2020 , 15, e0228333		
3	Adaptation mechanism of the adult zebrafish respiratory organ to endurance training 2020 , 15, e0228333		
2	Adaptation mechanism of the adult zebrafish respiratory organ to endurance training 2020 , 15, e0228333		

- 1 The effects of cigarette smoking and nicotine on the therapeutic potential of mesenchymal stem cells. *Histology and Histopathology*, **2021**, 18400 1.4