

# Sergey Rodin

## List of Publications by Year in descending order

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Version: 2024-02-01

36  
papers

2,420  
citations

361413

20  
h-index

377865

34  
g-index

36  
all docs

36  
docs citations

36  
times ranked

3946  
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-term self-renewal of human pluripotent stem cells on human recombinant laminin-511. <i>Nature Biotechnology</i> , 2010, 28, 611-615.	17.5	498
2	Functional Diversity of Laminins. <i>Annual Review of Cell and Developmental Biology</i> , 2012, 28, 523-553.	9.4	318
3	Clonal culturing of human embryonic stem cells on laminin-521/E-cadherin matrix in defined and xeno-free environment. <i>Nature Communications</i> , 2014, 5, 3195.	12.8	248
4	Laminin-511 but Not -332, -111, or -411 Enables Mouse Embryonic Stem Cell Self-Renewal In Vitro. <i>Stem Cells</i> , 2008, 26, 2800-2809.	3.2	143
5	Physical, Spatial, and Molecular Aspects of Extracellular Matrix of <i>In Vivo</i> Niches and Artificial Scaffolds Relevant to Stem Cells Research. <i>Stem Cells International</i> , 2015, 2015, 1-35.	2.5	135
6	In Vivo Effects of Mesenchymal Stromal Cells in Two Patients With Severe Acute Respiratory Distress Syndrome. <i>Stem Cells Translational Medicine</i> , 2015, 4, 1199-1213.	3.3	131
7	Endothelial basement membrane limits tip cell formation by inducing Dll4/Notch signalling <i>in vivo</i> . <i>EMBO Reports</i> , 2011, 12, 1135-1143.	4.5	129
8	Monolayer culturing and cloning of human pluripotent stem cells on laminin-521-based matrices under xeno-free and chemically defined conditions. <i>Nature Protocols</i> , 2014, 9, 2354-2368.	12.0	100
9	Novel chitin scaffolds derived from marine sponge <i>Ianthella basta</i> for tissue engineering approaches based on human mesenchymal stromal cells: Biocompatibility and cryopreservation. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 1955-1965.	7.5	75
10	The safety of human pluripotent stem cells in clinical treatment. <i>Annals of Medicine</i> , 2015, 47, 370-380.	3.8	72
11	Enteric short-chain fatty acids promote proliferation of human neural progenitor cells. <i>Journal of Neurochemistry</i> , 2020, 154, 635-646.	3.9	68
12	3D chitinous scaffolds derived from cultivated marine demosponge <i>Aplysina aerophoba</i> for tissue engineering approaches based on human mesenchymal stromal cells. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 1966-1974.	7.5	59
13	Laminins and cancer stem cells: Partners in crime?. <i>Seminars in Cancer Biology</i> , 2017, 45, 3-12.	9.6	52
14	Melanoma cells produce multiple laminin isoforms and strongly migrate on $\hat{\pm}5$ laminin(s) via several integrin receptors. <i>Experimental Cell Research</i> , 2011, 317, 1119-1133.	2.6	48
15	System-wide identification and prioritization of enzyme substrates by thermal analysis. <i>Nature Communications</i> , 2021, 12, 1296.	12.8	44
16	Human embryonic stem cells. <i>Best Practice and Research in Clinical Obstetrics and Gynaecology</i> , 2016, 31, 2-12.	2.8	38
17	Cumulative prognostic power of laminin genes in colorectal cancer. <i>BMC Medical Genomics</i> , 2018, 11, 9.	1.5	30
18	Clonal chromosomal and genomic instability during human multipotent mesenchymal stromal cells long-term culture. <i>PLoS ONE</i> , 2018, 13, e0192445.	2.5	28

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19	Mast cell-derived serotonin enhances methacholine-induced airway hyperresponsiveness in house dust mite-induced experimental asthma. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021, 76, 2057-2069.	5.7	27
20	Selectin-independent adhesion during ovarian cancer metastasis. <i>Biochimie</i> , 2017, 142, 197-206.	2.6	25
21	Culturing functional pancreatic islets on $\beta$ 5-laminins and curative transplantation to diabetic mice. <i>Matrix Biology</i> , 2018, 70, 5-19.	3.6	23
22	Wnt/ $\beta$ 2-Catenin Stimulation and Laminins Support Cardiovascular Cell Progenitor Expansion from Human Fetal Cardiac Mesenchymal Stromal Cells. <i>Stem Cell Reports</i> , 2016, 6, 607-617.	4.8	20
23	Knockdown of the $\beta$ 5 laminin chain affects differentiation of colorectal cancer cells and their sensitivity to chemotherapy. <i>Biochimie</i> , 2020, 174, 107-116.	2.6	19
24	An integrative proteomics method identifies a regulator of translation during stem cell maintenance and differentiation. <i>Nature Communications</i> , 2021, 12, 6558.	12.8	16
25	Concise Review: Animal Substance-Free Human Embryonic Stem Cells Aiming at Clinical Applications. <i>Stem Cells Translational Medicine</i> , 2014, 3, 1269-1274.	3.3	15
26	Derivation of Human Skin Fibroblast Lines for Feeder Cells of Human Embryonic Stem Cells. <i>Current Protocols in Stem Cell Biology</i> , 2016, 36, 1C.7.1-1C.7.11.	3.0	12
27	Isotopic resonance at 370‰ppm deuterium negatively affects kinetics of luciferin oxidation by luciferase. <i>Scientific Reports</i> , 2018, 8, 16249.	3.3	11
28	Five-Year Follow-up after Mesenchymal Stromal Cell-based Treatment of Severe Acute Respiratory Distress Syndrome. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 202, 1051-1055.	5.6	9
29	First Immunoassay for Measuring Isoaspartate in Human Serum Albumin. <i>Molecules</i> , 2021, 26, 6709.	3.8	9
30	Human Fetal Cardiac Mesenchymal Stromal Cells Differentiate In Vivo into Endothelial Cells and Contribute to Vasculogenesis in Immunocompetent Mice. <i>Stem Cells and Development</i> , 2019, 28, 310-318.	2.1	8
31	Repeatable, Inducible Micro-RNA-Based Technology Tightly Controls Liver Transgene Expression. <i>Molecular Therapy - Nucleic Acids</i> , 2014, 3, e172.	5.1	3
32	Characterization of Laminins in Healthy Human Aortic Valves and a Modified Decellularized Rat Scaffold. <i>BioResearch Open Access</i> , 2020, 9, 269-278.	2.6	3
33	Aberrant interactions between amyloid-beta and alpha5 laminins as possible driver of neuronal dysfunction in Alzheimer's disease. <i>Biochimie</i> , 2020, 174, 44-48.	2.6	2
34	Diversity of respiratory parameters and metabolic adaptation to low oxygen tension in mesenchymal stromal cells. <i>Metabolism Open</i> , 2022, 13, 100167.	2.9	2
35	Biologically Relevant Laminins in Regenerative Medicine. <i>Pancreatic Islet Biology</i> , 2018, , 59-82.	0.3	0
36	Spatiotemporal extracellular matrix modeling for in situ cell niche studies. <i>Stem Cells</i> , 2021, 39, 1751-1765.	3.2	0