

# Sergiu P PaÈca

## List of Publications by Year in descending order

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117  
papers

10,073  
citations

76326

40  
h-index

42399

92  
g-index

133  
all docs

133  
docs citations

133  
times ranked

10764  
citing authors

#	ARTICLE	IF	CITATIONS
1	Functional cortical neurons and astrocytes from human pluripotent stem cells in 3D culture. Nature Methods, 2015, 12, 671-678.	19.0	1,220
2	Assembly of functionally integrated human forebrain spheroids. Nature, 2017, 545, 54-59.	27.8	931
3	Cre-dependent selection yields AAV variants for widespread gene transfer to the adult brain. Nature Biotechnology, 2016, 34, 204-209.	17.5	727
4	Using iPSC-derived neurons to uncover cellular phenotypes associated with Timothy syndrome. Nature Medicine, 2011, 17, 1657-1662.	30.7	521
5	Human Astrocyte Maturation Captured in 3D Cerebral Cortical Spheroids Derived from Pluripotent Stem Cells. Neuron, 2017, 95, 779-790.e6.	8.1	436
6	The rise of three-dimensional human brain cultures. Nature, 2018, 553, 437-445.	27.8	373
7	Reliability of human cortical organoid generation. Nature Methods, 2019, 16, 75-78.	19.0	330
8	Generation and assembly of human brain region-specific three-dimensional cultures. Nature Protocols, 2018, 13, 2062-2085.	12.0	262
9	Generation of Functional Human 3D Cortico-Motor Assembloids. Cell, 2020, 183, 1913-1929.e26.	28.9	262
10	Engineered materials for organoid systems. Nature Reviews Materials, 2019, 4, 606-622.	48.7	251
11	Differentiation and maturation of oligodendrocytes in human three-dimensional neural cultures. Nature Neuroscience, 2019, 22, 484-491.	14.8	247
12	Building Models of Brain Disorders with Three-Dimensional Organoids. Neuron, 2018, 100, 389-405.	8.1	237
13	Timothy syndrome is associated with activity-dependent dendritic retraction in rodent and human neurons. Nature Neuroscience, 2013, 16, 201-209.	14.8	224
14	Chromatin and gene-regulatory dynamics of the developing human cerebral cortex at single-cell resolution. Cell, 2021, 184, 5053-5069.e23.	28.9	209
15	Generation of human striatal organoids and cortico-striatal assembloids from human pluripotent stem cells. Nature Biotechnology, 2020, 38, 1421-1430.	17.5	206
16	Long-term maturation of human cortical organoids matches key early postnatal transitions. Nature Neuroscience, 2021, 24, 331-342.	14.8	188
17	Chromatin accessibility dynamics in a model of human forebrain development. Science, 2020, 367, .	12.6	187
18	Loss of Adaptive Myelination Contributes to Methotrexate Chemotherapy-Related Cognitive Impairment. Neuron, 2019, 103, 250-265.e8.	8.1	177

#	ARTICLE	IF	CITATIONS
19	A tissue-like neurotransmitter sensor for the brain and gut. <i>Nature</i> , 2022, 606, 94-101.	27.8	162
20	Organoid and Assembloid Technologies for Investigating Cellular Crosstalk in Human Brain Development and Disease. <i>Trends in Cell Biology</i> , 2020, 30, 133-143.	7.9	148
21	Assembling human brain organoids. <i>Science</i> , 2019, 363, 126-127.	12.6	141
22	The ethics of experimenting with human brain tissue. <i>Nature</i> , 2018, 556, 429-432.	27.8	139
23	High levels of homocysteine and low serum paraoxonase 1 arylesterase activity in children with autism. <i>Life Sciences</i> , 2006, 78, 2244-2248.	4.3	135
24	Genetically targeted chemical assembly of functional materials in living cells, tissues, and animals. <i>Science</i> , 2020, 367, 1372-1376.	12.6	132
25	Nondestructive nanostraw intracellular sampling for longitudinal cell monitoring. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E1866-E1874.	7.1	124
26	Human 3D cellular model of hypoxic brain injury of prematurity. <i>Nature Medicine</i> , 2019, 25, 784-791.	30.7	123
27	Neuronal defects in a human cellular model of 22q11.2 deletion syndrome. <i>Nature Medicine</i> , 2020, 26, 1888-1898.	30.7	113
28	A deleterious Nav1.1 mutation selectively impairs telencephalic inhibitory neurons derived from Dravet Syndrome patients. <i>ELife</i> , 2016, 5, .	6.0	101
29	One carbon metabolism disturbances and the C677T MTHFR gene polymorphism in children with autism spectrum disorders. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 4229-4238.	3.6	99
30	Human brain organogenesis: Toward a cellular understanding of development and disease. <i>Cell</i> , 2022, 185, 42-61.	28.9	97
31	MicroRNA-9 Couples Brain Neurogenesis and Angiogenesis. <i>Cell Reports</i> , 2017, 20, 1533-1542.	6.4	90
32	A framework for the investigation of rare genetic disorders in neuropsychiatry. <i>Nature Medicine</i> , 2019, 25, 1477-1487.	30.7	90
33	The silent healer: miR-205-5p up-regulation inhibits epithelial to mesenchymal transition in colon cancer cells by indirectly up-regulating E-cadherin expression. <i>Cell Death and Disease</i> , 2018, 9, 66.	6.3	78
34	Cell diversity in the human cerebral cortex: from the embryo to brain organoids. <i>Current Opinion in Neurobiology</i> , 2019, 56, 194-198.	4.2	73
35	Alteration in basal and depolarization induced transcriptional network in iPSC derived neurons from Timothy syndrome. <i>Genome Medicine</i> , 2014, 6, 75.	8.2	72
36	&lt;p&gt;SERS-based differential diagnosis between multiple solid malignancies: breast, colorectal, lung, ovarian and oral cancer&lt;/p&gt;. <i>International Journal of Nanomedicine</i> , 2019, Volume 14, 6165-6178.	6.7	62

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37	Engineering brain assembloids to interrogate human neural circuits. <i>Nature Protocols</i> , 2022, 17, 15-35.	12.0	62
38	Dissecting the molecular basis of human interneuron migration in forebrain assembloids from Timothy syndrome. <i>Cell Stem Cell</i> , 2022, 29, 248-264.e7.	11.1	61
39	Advancing models of neural development with biomaterials. <i>Nature Reviews Neuroscience</i> , 2021, 22, 593-615.	10.2	60
40	Generating Human Neurons In Vitro and Using Them to Understand Neuropsychiatric Disease. <i>Annual Review of Neuroscience</i> , 2014, 37, 479-501.	10.7	58
41	Primate cell fusion disentangles gene regulatory divergence in neurodevelopment. <i>Nature</i> , 2021, 592, 421-427.	27.8	52
42	Motor abnormalities as a putative endophenotype for Autism Spectrum Disorders. <i>Frontiers in Integrative Neuroscience</i> , 2013, 7, 43.	2.1	37
43	Chimeric Antigen Receptor T-Cells for the Treatment of B-Cell Acute Lymphoblastic Leukemia. <i>Frontiers in Immunology</i> , 2018, 9, 239.	4.8	35
44	Aberrant calcium channel splicing drives defects in cortical differentiation in Timothy syndrome. <i>ELife</i> , 2019, 8, .	6.0	35
45	A Promoter in the Coding Region of the Calcium Channel Gene CACNA1C Generates the Transcription Factor CCAT. <i>PLoS ONE</i> , 2013, 8, e60526.	2.5	33
46	Neural Differentiation in the Third Dimension: Generating a Human Midbrain. <i>Cell Stem Cell</i> , 2016, 19, 145-146.	11.1	30
47	Role of Key Micronutrients from Nutrigenetic and Nutrigenomic Perspectives in Cancer Prevention. <i>Medicina (Lithuania)</i> , 2019, 55, 283.	2.0	30
48	MicroRNA-155 Implication in M1 Polarization and the Impact in Inflammatory Diseases. <i>Frontiers in Immunology</i> , 2020, 11, 625.	4.8	30
49	Approach to the Adult Acute Lymphoblastic Leukemia Patient. <i>Journal of Clinical Medicine</i> , 2019, 8, 1175.	2.4	28
50	Exosome-carried microRNA-based signature as a cellular trigger for the evolution of chronic lymphocytic leukemia into Richter syndrome. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2018, 55, 501-515.	6.1	27
51	Nanotechnology Enables Novel Modalities for Neuromodulation. <i>Advanced Materials</i> , 2021, 33, e2103208.	21.0	26
52	Personalized Human Cortical Spheroids. <i>American Journal of Psychiatry</i> , 2016, 173, 332-333.	7.2	23
53	Building three-dimensional human brain organoids. <i>Nature Neuroscience</i> , 2018, , .	14.8	23
54	Paraoxonase 1 activities and polymorphisms in autism spectrum disorders. <i>Journal of Cellular and Molecular Medicine</i> , 2010, 14, 600-607.	3.6	21

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55	LEAM vs. BEAM vs. CLV Conditioning Regimen for Autologous Stem Cell Transplantation in Malignant Lymphomas. Retrospective Comparison of Toxicity and Efficacy on 222 Patients in the First 100 Days After Transplant, On Behalf of the Romanian Society for Bone Marrow Transplantation. <i>Frontiers in Oncology</i> , 2019, 9, 892.	2.8	20
56	Engineering a Genetically Encoded Magnetic Protein Crystal. <i>Nano Letters</i> , 2019, 19, 6955-6963.	9.1	19
57	Paraoxonase-1 Serum Concentration and PON1 Gene Polymorphisms: Relationship with Non-Alcoholic Fatty Liver Disease. <i>Journal of Clinical Medicine</i> , 2019, 8, 2200.	2.4	18
58	The CD22-IGF2R interaction is a therapeutic target for microglial lysosome dysfunction in Niemann-Pick type C. <i>Science Translational Medicine</i> , 2021, 13, eabg2919.	12.4	18
59	Polarizing brain organoids. <i>Nature Biotechnology</i> , 2019, 37, 377-378.	17.5	16
60	KRAS/NRAS/BRAF Mutations as Potential Targets in Multiple Myeloma. <i>Frontiers in Oncology</i> , 2019, 9, 1137.	2.8	15
61	Continuous renal replacement therapy in cytokine release syndrome following immunotherapy or cellular therapies?. , 2020, 8, e000742.		15
62	Behavioral effects of corpus callosum transection and environmental enrichment in adult rats. <i>Behavioural Brain Research</i> , 2006, 172, 135-144.	2.2	14
63	Minimal residual disease in chronic lymphocytic leukemia: A consensus paper that presents the clinical impact of the presently available laboratory approaches. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2018, 55, 329-345.	6.1	14
64	Clinical Approach to the Patient in Critical State Following Immunotherapy and/or Stem Cell Transplantation: Guideline for the On-Call Physician. <i>Journal of Clinical Medicine</i> , 2019, 8, 884.	2.4	14
65	Persistent Basophilia May Suggest an "Accelerated Phase" in the Evolution of CALR-Positive Primary Myelofibrosis Toward Acute Myeloid Leukemia. <i>Frontiers in Oncology</i> , 2019, 9, 872.	2.8	12
66	Allogeneic Stem Cell Transplantation for Adult T-Cell Leukemia/Lymphoma"Romanian Experience. <i>Journal of Clinical Medicine</i> , 2020, 9, 2417.	2.4	12
67	Day 15 and Day 33 Minimal Residual Disease Assessment for Acute Lymphoblastic Leukemia Patients Treated According to the BFM ALL IC 2009 Protocol: Single-Center Experience of 133 Cases. <i>Frontiers in Oncology</i> , 2020, 10, 923.	2.8	12
68	Chromatin dynamics in human brain development and disease. <i>Trends in Cell Biology</i> , 2022, 32, 98-101.	7.9	12
69	Transforming growth factor $\beta$ -mediated micromechanics modulates disease progression in primary myelofibrosis. <i>Journal of Cellular and Molecular Medicine</i> , 2020, 24, 11100-11110.	3.6	11
70	Hepatic Hydrothorax"An Independent Decompensating Event Associated with Long-Term Mortality in Patients with Cirrhosis. <i>Journal of Clinical Medicine</i> , 2021, 10, 3688.	2.4	11
71	SERS-based DNA methylation profiling allows the differential diagnosis of malignant lymphadenopathy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 264, 120216.	3.9	11
72	A matter of space and time: Emerging roles of disease-associated proteins in neural development. <i>Neuron</i> , 2022, 110, 195-208.	8.1	10

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73	Fibroblast dynamics as an in vitro screening platform for anti-fibrotic drugs in primary myelofibrosis. <i>Journal of Cellular Physiology</i> , 2018, 233, 422-433.	4.1	9
74	Serum paraoxonase 1 activities and homocysteinemia in hemodialysis patients. <i>Clinical Chemistry and Laboratory Medicine</i> , 2008, 46, 880-1.	2.3	8
75	Transient leukemia of Down syndrome. <i>Critical Reviews in Clinical Laboratory Sciences</i> , 2019, 56, 247-259.	6.1	8
76	Letâ€™s Talk About BiTEs and Other Drugs in the Real-Life Setting for B-Cell Acute Lymphoblastic Leukemia. <i>Frontiers in Immunology</i> , 2019, 10, 2856.	4.8	8
77	Current therapeutic approaches in the management of hemophiliaâ€™a consensus view by the Romanian Society of Hematology. <i>Annals of Translational Medicine</i> , 2021, 9, 1091-1091.	1.7	7
78	CYP4F2 and VKORC1 Polymorphisms Amplify the Risk of Carotid Plaque Formation. <i>Genes</i> , 2020, 11, 822.	2.4	6
79	From Proteomics to Personalized Medicine: The Importance of Isoflavone Dose and Estrogen Receptor Status in Breast Cancer Cells. <i>Journal of Personalized Medicine</i> , 2020, 10, 292.	2.5	6
80	Single-Center Experience With Epigenetic Treatment for Juvenile Myelomonocytic Leukemia. <i>Frontiers in Oncology</i> , 2020, 10, 484.	2.8	6
81	The Potential Equivalent of TET2 Mutations. <i>Cancers</i> , 2021, 13, 1499.	3.7	6
82	SERS-Based Evaluation of the DNA Methylation Pattern Associated With Progression in Clonal Leukemogenesis of Down Syndrome. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 703268.	4.1	6
83	The Predictive Role of Modified Early Warning Score in 174 Hematological Patients at the Point of Transfer to the Intensive Care Unit. <i>Journal of Clinical Medicine</i> , 2021, 10, 4766.	2.4	6
84	Vomiting is not an adaption for glaucoma (and Darwinian medicine is difficult). <i>Medical Hypotheses</i> , 2008, 71, 472-473.	1.5	5
85	Genetically enhanced T lymphocytes and the intensive care unit. <i>Oncotarget</i> , 2018, 9, 16557-16572.	1.8	5
86	Assessing Measurable Residual Disease in Chronic Myeloid Leukemia. BCR-ABL1 IS in the Avant-Garde of Molecular Hematology. <i>Frontiers in Oncology</i> , 2019, 9, 863.	2.8	5
87	Differential Diagnosis of Malignant Lymphadenopathy Using Flow Cytometry on Fine Needle Aspirate: Report on 269 Cases. <i>Journal of Clinical Medicine</i> , 2020, 9, 283.	2.4	5
88	Drinking Behavior, Taste Preferences and Special Beer Perception among Romanian University Students: A Qualitative Assessment Research. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 3307.	2.6	5
89	Focus on organoids: cooperation and interconnection with extracellular vesicles â€™ Is this the future of in vitro modeling?. <i>Seminars in Cancer Biology</i> , 2022, 86, 367-381.	9.6	5
90	Next-generation sequencing-based characterization of the invasion by anatomical contiguity in a primary osseous diffuse large B-cell lymphoma. Correlation between the genetic profile of the malignancy and the clinical outcome of the patient. <i>Histology and Histopathology</i> , 2019, 34, 663-670.	0.7	5

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91	Surround modulation of neuronal responses in V1 is as stable over time as responses to direct stimulation of receptive fields. <i>Cortex</i> , 2010, 46, 1199-1203.	2.4	4
92	The hidden biology of the human brain. <i>Nature Medicine</i> , 2019, 25, 1655-1655.	30.7	4
93	Research and training in autism spectrum disorder to catalyze the next genomic and neuroscience revolutions. <i>Molecular Psychiatry</i> , 2021, 26, 1429-1431.	7.9	4
94	Ibrutinib Monotherapy as Bridge-to-Transplant for Relapsed/Refractory Primary Oculo-Cerebral Lymphoma. <i>Journal of Clinical Medicine</i> , 2021, 10, 4483.	2.4	4
95	The use of rotation to fentanyl in cancer-related pain. <i>Journal of Pain Research</i> , 2017, Volume 10, 341-348.	2.0	3
96	Absent forebrain replaced by embryonic stem cells. <i>Nature</i> , 2018, 563, 44-45.	27.8	3
97	The Influence of Methylating Mutations on Acute Myeloid Leukemia: Preliminary Analysis on 56 Patients. <i>Diagnostics</i> , 2020, 10, 263.	2.6	3
98	SERS-Based Assessment of MRD in Acute Promyelocytic Leukemia?. <i>Frontiers in Oncology</i> , 2020, 10, 1024.	2.8	3
99	Mapping human brain organoids on a spatial atlas. <i>Cell Stem Cell</i> , 2021, 28, 983-984.	11.1	3
100	Implications of TET2 in CAR-T Cell Activity and Target Response to CAR-T Cell Therapy: Lessons Learned from T Cells. <i>Critical Reviews in Immunology</i> , 2021, 41, 13-21.	0.5	3
101	Feeder-free, Xeno-free Generation of Cortical Spheroids From Human Pluripotent Stem Cells. <i>Protocol Exchange</i> , 0, , .	0.3	3
102	Overview of the Side-Effects of FDA- and/or EMA-Approved Targeted Therapies for the Treatment of Hematological Malignancies. <i>Journal of Clinical Medicine</i> , 2020, 9, 2903.	2.4	2
103	B Cells versus T Cells in the Tumor Microenvironment of Malignant Lymphomas. Are the Lymphocytes Playing the Roles of Muhammad Ali versus George Foreman in Zaire 1974?. <i>Journal of Clinical Medicine</i> , 2020, 9, 3412.	2.4	2
104	Imaging neuronal migration and network activity in human forebrain assembloids. <i>STAR Protocols</i> , 2022, 3, 101478.	1.2	2
105	The Zika threat to the periphery. <i>Nature Neuroscience</i> , 2017, 20, 1191-1192.	14.8	1
106	TET2/IDH1/2/WT1 and NPM1 Mutations Influence the RUNX1 Expression Correlations in Acute Myeloid Leukemia. <i>Medicina (Lithuania)</i> , 2020, 56, 637.	2.0	1
107	Generation and Assembly of Forebrain Spheroids. <i>Protocol Exchange</i> , 0, , .	0.3	1
108	Targeting Cell Death Mechanism Specifically in Triple Negative Breast Cancer Cell Lines. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4784.	4.1	1

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109	A human cellular model of amyotrophic lateral sclerosis. <i>Nature Medicine</i> , 2018, 24, 256-257.	30.7	0
110	Systemic and Local Factorsâ€™ Influence on the Topological Differences in Deep Vein Thrombosis. <i>Medicina (Lithuania)</i> , 2019, 55, 691.	2.0	0
111	Clinical Remission in a 72-Year-Old Patient with a Massive Primary Cutaneous Peripheral T-Cell Lymphoma-NOS of the Eyelid, Following Combination Chemotherapy with Etoposide Plus COP. <i>Diagnostics</i> , 2020, 10, 629.	2.6	0
112	Engineering a Magnetic Protein Crystal. <i>Biophysical Journal</i> , 2020, 118, 153a.	0.5	0
113	Scrutinizing disease states and regulation in human microglia. <i>Nature Genetics</i> , 2021, 53, 766-767.	21.4	0
114	Correlation between the prevalence of T-cell lymphomas and alcohol consumption. <i>Medicine and Pharmacy Reports</i> , 2021, 94, 298-306.	0.4	0
115	Paraoxonase 1 Status, Environmental Exposures, and Oxidative Stress in Autism Spectrum Disorders. , 2009, , 91-112.		0
116	Circulating microRNA-194 and microRNA-1228 Could Predict Colon Cancer Proliferation via Phospho S6 Modulation. <i>Journal of Gastrointestinal and Liver Diseases</i> , 2020, 29, 361-367.	0.9	0
117	The Predictive Role of Modified Early Warning Score in 174 Hematological Patients at the Point of Transfer to the Intensive Care Unit. <i>Journal of Clinical Medicine</i> , 2021, 10, .	2.4	0