Tomo Saric

List of Publications by Year
in descending order

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94 papers	5,636 citations	76326 40 h-index	79698 73 g-index
98 all docs	98 docs citations	98 times ranked	7674 citing authors

#	Article	IF	Citations
1	An IFN-Î³â€“induced aminopeptidase in the ER, ERAP1, trims precursors to MHC class Iâ€“presented peptides. Nature Immunology, 2002, 3, 1169-1176.	14.5	486
2	The ER aminopeptidase ERAP1 enhances or limits antigen presentation by trimming epitopes to 8â€“9 residues. Nature Immunology, 2002, 3, 1177-1184.	14.5	448
3	Protein degradation and the generation of MHC class I-presented peptides. Advances in Immunology, 2002, 80, 1-70.	2.2	300
4	The importance of the proteasome and subsequent proteolytic steps in the generation of antigenic peptides. Molecular Immunology, 2002, 39, 147-164.	2.2	299
5	CD25 and indoleamine 2,3-dioxygenase are up-regulated by prostaglandin E2 and expressed by tumor-associated dendritic cells in vivo: additional mechanisms of T-cell inhibition. Blood, 2006, 108, 228-237.	1.4	224
6	<scp>CPAP</scp> promotes timely cilium disassembly to maintain neural progenitor pool. EMBO Journal, 2016, 35, 803-819.	7.8	208
7	Epigenetic Rejuvenation of Mesenchymal Stromal Cells Derived from Induced Pluripotent Stem Cells. Stem Cell Reports, 2014, 3, 414-422.	4.8	192
8	In vitro Modeling of Ryanodine Receptor 2 Dysfunction Using Human Induced Pluripotent Stem Cells. Cellular Physiology and Biochemistry, 2011, 28, 579-592.	1.6	179
9	Pathway for Degradation of Peptides Generated by Proteasomes. Journal of Biological Chemistry, 2004, 279, 46723-46732.	3.4	164
10	The Cytosolic Endopeptidase, Thimet Oligopeptidase, Destroys Antigenic Peptides and Limits the Extent of MHC Class I Antigen Presentation. Immunity, 2003, 18, 429-440.	14.3	137
11	Research and therapy with induced pluripotent stem cells (iPSCs): social, legal, and ethical considerations. Stem Cell Research and Therapy, 2019, 10, 341.	5.5	130
12	Major Histocompatibility Complex Class I-presented Antigenic Peptides Are Degraded in Cytosolic Extracts Primarily by Thimet Oligopeptidase. Journal of Biological Chemistry, 2001, 276, 36474-36481.	3.4	128
13	Indoleamine 2,3-dioxygenaseâ€“expressing dendritic cells form suppurative granulomas following Listeria monocytogenes infection. Journal of Clinical Investigation, 2006, 116, 3160-3170.	8.2	123
14	Functional characterization of cardiomyocytes derived from murine induced pluripotent stem cells in vitro. FASEB Journal, 2009, 23, 4168-4180.	0.5	119
15	Pluripotent stem cells escape from senescence-associated DNA methylation changes. Genome Research, 2013, 23, 248-259.	5.5	107
16	Ca2+ signaling in human induced pluripotent stem cell-derived cardiomyocytes (iPS-CM) from normal and catecholaminergic polymorphic ventricular tachycardia (CPVT)-afflicted subjects. Cell Calcium, 2013, 54, 57-70.	2.4	93
17	Modeling the Pathological Long-Range Regulatory Effects of Human Structural Variation with Patient-Specific hiPSCs. Cell Stem Cell, 2019, 24, 736-752.e12.	11.1	90
18	Cardiac Myocytes Derived from Murine Reprogrammed Fibroblasts: Intact Hormonal Regulation, Cardiac Ion Channel Expression and Development of Contractility. Cellular Physiology and Biochemistry, 2009, 24, 73-86.	1.6	88

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19	Comparison of contractile behavior of native murine ventricular tissue and cardiomyocytes derived from embryonic or induced pluripotent stem cells. FASEB Journal, 2010, 24, 2739-2751.	0.5	88
20	The Disease-Specific Phenotype in Cardiomyocytes Derived from Induced Pluripotent Stem Cells of Two Long QT Syndrome Type 3 Patients. PLoS ONE, 2013, 8, e83005.	2.5	77
21	Preparation of cardiac extracellular matrix scaffolds by decellularization of human myocardium. Journal of Biomedical Materials Research - Part A, 2014, 102, 3263-3272.	4.0	77
22	Global transcriptional profiles of beating clusters derived from human induced pluripotent stem cells and embryonic stem cells are highly similar. BMC Developmental Biology, 2010, 10, 98.	2.1	76
23	Concise Review: Role and Function of the Ubiquitin-Proteasome System in Mammalian Stem and Progenitor Cells. Stem Cells, 2007, 25, 2408-2418.	3.2	72
24	Genetic pattern of prostate cancer progression. , 1999, 81, 219-224.		70
25	Regulation of the multidrug resistance transporter P-glycoprotein in multicellular prostate tumor spheroids by hyperthermia and reactive oxygen species. International Journal of Cancer, 2005, 113, 229-240.	5.1	70
26	Conserved TCP domain of Sas-4/CPAP is essential for pericentriolar material tethering during centrosome biogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E354-63.	7.1	70
27	Combining Hypoxia and Bioreactor Hydrodynamics Boosts Induced Pluripotent Stem Cell Differentiation Towards Cardiomyocytes. Stem Cell Reviews and Reports, 2014, 10, 786-801.	5.6	65
28	Conversion of Human Fibroblasts to Stably Self-Renewing Neural Stem Cells with a Single Zinc-Finger Transcription Factor. Stem Cell Reports, 2016, 6, 539-551.	4.8	63
29	In vitroModel for Assessing Arrhythmogenic Properties of Drugs Based on High-resolution Impedance Measurements. Cellular Physiology and Biochemistry, 2012, 29, 819-832.	1.6	59
30	Myeloperoxidase Mediates Postischemic Arrhythmogenic Ventricular Remodeling. Circulation Research, 2017, 121, 56-70.	4.5	59
31	Recapitulation of Human Neural Microenvironment Signatures in iPSC-Derived NPC 3D Differentiation. Stem Cell Reports, 2018, 11, 552-564.	4.8	59
32	Preparation of cardiac extracellular matrix scaffolds by decellularization of human myocardium. Journal of Biomedical Materials Research - Part A, 2013, 102, n/a-n/a.	4.0	59
33	The TMEM43 Newfoundland mutation p.S358L causing ARVC-5 was imported from Europe and increases the stiffness of the cell nucleus. European Heart Journal, 2015, 36, 872-881.	2.2	56
34	Induced Pluripotent Mesenchymal Stromal Cell Clones Retain Donor-derived Differences in DNA Methylation Profiles. Molecular Therapy, 2013, 21, 240-250.	8.2	54
35	Human cardiac extracellular matrix supports myocardial lineage commitment of pluripotent stem cellsâ€. European Journal of Cardio-thoracic Surgery, 2015, 47, 416-425.	1.4	52
36	Generation of human induced pluripotent stem cell-derived cardiomyocytes in 2D monolayer and scalable 3D suspension bioreactor cultures with reduced batch-to-batch variations. Theranostics, 2019, 9, 7222-7238.	10.0	52

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37	Rapid establishment of the European Bank for induced Pluripotent Stem Cells (EBiSC) - the Hot Start experience. Stem Cell Research, 2017, 20, 105-114.	0.7	51
38	Serpin-6 Expression Protects Embryonic Stem Cells from Lysis by Antigen-Specific CTL. Journal of Immunology, 2007, 178, 3390-3399.	0.8	50
39	Dual Color Photoactivation Localization Microscopy of Cardiomyopathy-associated Desmin Mutants. Journal of Biological Chemistry, 2012, 287, 16047-16057.	3.4	49
40	Role of Natural-Killer Group 2 Member D Ligands and Intercellular Adhesion Molecule 1 in Natural Killer Cell-Mediated Lysis of Murine Embryonic Stem Cells and Embryonic Stem Cell-Derived Cardiomyocytes. Stem Cells, 2009, 27, 307-316.	3.2	48
41	The Novel Desmin Mutant p.A120D Impairs Filament Formation, Prevents Intercalated Disk Localization, and Causes Sudden Cardiac Death. Circulation: Cardiovascular Genetics, 2013, 6, 615-623.	5.1	46
42	Immunological Barriers to Embryonic Stem Cell-Derived Therapies. Cells Tissues Organs, 2008, 188, 78-90.	2.3	45
43	Effective Hypothermic Storage of Human Pluripotent Stem Cell-Derived Cardiomyocytes Compatible With Global Distribution of Cells for Clinical Applications and Toxicology Testing. Stem Cells Translational Medicine, 2016, 5, 658-669.	3.3	40
44	Fibroblasts Facilitate the Engraftment of Embryonic Stem Cell-Derived Cardiomyocytes on Three-Dimensional Collagen Matrices and Aggregation in Hanging Drops. Stem Cells and Development, 2010, 19, 1589-1599.	2.1	37
45	Electrophysiological integration and action potential properties of transplanted cardiomyocytes derived from induced pluripotent stem cells. Cardiovascular Research, 2013, 100, 432-440.	3.8	37
46	Infection of Myeloid Dendritic Cells withListeria monocytogenesLeads to the Suppression of T Cell Function by Multiple Inhibitory Mechanisms. Journal of Immunology, 2008, 181, 4976-4988.	0.8	32
47	Regionally diverse mitochondrial calcium signaling regulates spontaneous pacing in developing cardiomyocytes. Cell Calcium, 2015, 57, 321-336.	2.4	32
48	Susceptibility of murine induced pluripotent stem cell-derived cardiomyocytes to hypoxia and nutrient deprivation. Stem Cell Research and Therapy, 2015, 6, 83.	5.5	31
49	Optimized Generation of Functional Neutrophils and Macrophages from Patient-Specific Induced Pluripotent Stem Cells:Ex VivoModels of X⁰-Linked, AR22⁰- and AR47⁰- Chronic Granulomatous Diseases. BioResearch Open Access, 2014, 3, 311-326.	2.6	30
50	Identification of two distinct regions of allelic imbalance on chromosome 18q in metastatic prostate cancer. , 2000, 85, 654-658.		29
51	Non-covalent interaction of ubiquitin with insulin-degrading enzyme. Molecular and Cellular Endocrinology, 2003, 204, 11-20.	3.2	28
52	Baicalin Maintains Late-Stage Functional Cardiomyocytes in Embryoid Bodies Derived from Murine Embryonic Stem Cells. Cellular Physiology and Biochemistry, 2013, 32, 86-99.	1.6	25
53	Decreased neural precursor cell pool in NADPH oxidase 2-deficiency: From mouse brain to neural differentiation of patient derived iPSC. Redox Biology, 2017, 13, 82-93.	9.0	25
54	Ascorbic Acid-Induced Cardiac Differentiation of Murine Pluripotent Stem Cells: Transcriptional Profiling and Effect of a Small Molecule Synergist of Wnt/Î²-Catenin Signaling Pathway. Cellular Physiology and Biochemistry, 2015, 36, 810-830.	1.6	23

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55	Scalable Selection of Hepatocyte- and Hepatocyte Precursor-Like Cells from Culture of Differentiating Transgenically Modified Murine Embryonic Stem Cells. Stem Cells, 2008, 26, 2245-2256.	3.2	22
56	Bioluminescent Imaging of Genetically Selected Induced Pluripotent Stem Cell-Derived Cardiomyocytes after Transplantation into Infarcted Heart of Syngeneic Recipients. PLoS ONE, 2014, 9, e107363.	2.5	21
57	The L-type Ca2+ Channels Blocker Nifedipine Represses Mesodermal Fate Determination in Murine Embryonic Stem Cells. PLoS ONE, 2013, 8, e53407.	2.5	19
58	Effects of hawthorn (Crataegus pentagyna) leaf extract on electrophysiologic properties of cardiomyocytes derived from human cardiac arrhythmiaâ€specific induced pluripotent stem cells. FASEB Journal, 2018, 32, 1440-1451.	0.5	19
59	Biological pacemakers: characterization in an in vitro coculture model. Journal of Electrocardiology, 2008, 41, 562-566.	0.9	18
60	Cardiac Cell Therapies: The Next Generation. Cardiovascular Therapeutics, 2011, 29, 2-16.	2.5	18
61	Mesenchymal Stem Cells and Their Conditioned Medium Improve Integration of Purified Induced Pluripotent Stem Cellâ€“Derived Cardiomyocyte Clusters into Myocardial Tissue. Stem Cells and Development, 2014, 23, 643-653.	2.1	18
62	From Early Embryonic to Adult Stage: Comparative Study of Action Potentials of Native and Pluripotent Stem Cell-Derived Cardiomyocytes. Stem Cells and Development, 2016, 25, 1397-1406.	2.1	15
63	Fibroblasts Support Functional Integration of Purified Embryonic Stem Cell-Derived Cardiomyocytes into Avital Myocardial Tissue. Stem Cells and Development, 2011, 20, 821-830.	2.1	12
64	Generation of human induced pluripotent stem cell line from a patient with a long QT syndrome type 2. Stem Cell Research, 2016, 16, 304-307.	0.7	11
65	Acid-Sensitive Ion Channels Are Expressed in Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes. Stem Cells and Development, 2019, 28, 920-932.	2.1	11
66	Stem cells and nuclear reprogramming. Minimally Invasive Therapy and Allied Technologies, 2008, 17, 64-78.	1.2	10
67	Induced pluripotent stem cells as cardiac arrhythmicin vitromodels and the impact for drug discovery. Expert Opinion on Drug Discovery, 2014, 9, 55-76.	5.0	10
68	Calcium Imaging in Pluripotent Stem Cell-Derived Cardiac Myocytes. Methods in Molecular Biology, 2015, 1353, 131-146.	0.9	10
69	Ketamine Increases Proliferation of Human iPSC-Derived Neuronal Progenitor Cells via Insulin-Like Growth Factor 2 and Independent of the NMDA Receptor. Cells, 2019, 8, 1139.	4.1	10
70	Murine transgenic iPS cell line for monitoring and selection of cardiomyocytes. Stem Cell Research, 2016, 17, 266-272.	0.7	7
71	Persistence of intramyocardially transplanted murine induced pluripotent stem cell-derived cardiomyocytes from different developmental stages. Stem Cell Research and Therapy, 2021, 12, 46.	5.5	7
72	Human pluripotent stem cell line (HDZi001-A) derived from a patient carrying the ARVC-5 associated mutation TMEM43-p.S358L. Stem Cell Research, 2020, 48, 101957.	0.7	6

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73	Acquisition of chromosome 1q duplication in parental and genomeâ€edited humanâ€induced pluripotent stem cellâ€derived neural stem cells results in their higher proliferation rate in vitro and in vivo. Cell Proliferation, 2020, 53, e12892.	5.3	6
74	Co-transplantation of Mesenchymal Stromal Cells and Induced Pluripotent Stem Cell-Derived Cardiomyocytes Improves Cardiac Function After Myocardial Damage. Frontiers in Cardiovascular Medicine, 2021, 8, 794690.	2.4	6
75	In Vitro Grown Micro-Tissues for Cardiac Cell Replacement Therapy in Vivo. Cellular Physiology and Biochemistry, 2019, 52, 1309-1324.	1.6	5
76	Expansion and Differentiation of Germline-Derived Pluripotent Stem Cells on Biomaterials. Tissue Engineering - Part A, 2013, 19, 1067-1080.	3.1	4
77	hiPSC-Derived Epidermal Keratinocytes from Ichthyosis Patients Show Altered Expression of Cornification Markers. International Journal of Molecular Sciences, 2021, 22, 1785.	4.1	4
78	Salicylic diamines selectively eliminate residual undifferentiated cells from pluripotent stem cell-derived cardiomyocyte preparations. Scientific Reports, 2021, 11, 2391.	3.3	3
79	Stem cells-derived natural killer cells for cancer immunotherapy: current protocols, feasibility, and benefits of ex vivo generated natural killer cells in treatment of advanced solid tumors. Cancer Immunology, Immunotherapy, 2021, 70, 3369-3395.	4.2	3
80	A Cre-based double fluorescence indicator system for monitoring cell fusion events and selection of fused cells. BioTechniques, 2010, 48, 113-120.	1.8	2
81	Chromosome Tracking in Fused Cells by Single Nucleotide Polymorphisms. Methods in Molecular Biology, 2015, 1313, 95-106.	0.9	2
82	Human Pluripotent Stem Cell Applications in Drug Discovery and Toxicology â€“ An overview. , 0, , .		1
83	Dynamic Support Culture of Murine Skeletal Muscle-Derived Stem Cells Improves Their Cardiogenic PotentialIn Vitro. Stem Cells International, 2015, 2015, 1-12.	2.5	1
84	Alternative Embryonic Stem Cell Sources. , 2009, , 101-143.		1
85	Embryonic Stem Cells and Their Therapeutic Potential. , 2008, , 29-57.		0
86	Spontaneous Ca2+ Oscillations in Beating Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes (HIPSC-CM) and Rat Neonatal Cardiomyocytes (RN-CM). Biophysical Journal, 2012, 102, 506a.	0.5	0
87	Ca2+ Signaling in Cardiomyocytes Derived from Human Induced Pluripotent Stem Cells (hIPSC). Biophysical Journal, 2012, 102, 506a.	0.5	0
88	Calcium Signaling Properties of Control and CPVT-Expressing Human ipscs-Derived Cardiomyocytes. Biophysical Journal, 2013, 104, 297a.	0.5	0
89	Optimization of X-linked chronic granulomatous disease modelization by using patient-specific induced pluripotent stem cells. Experimental Hematology, 2013, 41, S28.	0.4	0
90	Long-term persistence, functional integration and electrophysiological properties of transplanted cardiomyocytes derived from induced pluripotent stem cells. European Heart Journal, 2013, 34, 1603-1603.	2.2	0

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91	Protein Degradation. , 2004, , 484-492.		0
92	ERAP1 and MHC Class I Antigen Presentation. , 2004, , 145-178.		0
93	Embryonic Stem Cells, Cardiomyoplasty, and the Risk of Teratoma Formation. , 2009, , 229-260.		0
94	Human-Induced Pluripotent Stem Cells, Embryonic Stem Cells, and Their Cardiomyocyte Derivatives: An Overview. , 2013, , 321-345.		0