Alessandro Rosa

List of Publications by Year
in descending order

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		218592	149623
62	4,010	26	56
papers	citations	h-index	g-index

69	69	69	6517
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Minicircuitry Comprised of MicroRNA-223 and Transcription Factors NFI-A and C/EBPÎ± Regulates Human Granulopoiesis. Cell, 2005, 123, 819-831.	13.5	935
2	FUS affects circular RNA expression in murine embryonic stem cell-derived motor neurons. Nature Communications, 2017, 8, 14741.	5.8	403
3	The interplay between the master transcription factor PU.1 and miR-424 regulates human monocyte/macrophage differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19849-19854.	3.3	266
4	The miR-430/427/302 Family Controls Mesendodermal Fate Specification via Species-Specific Target Selection. Developmental Cell, 2009, 16, 517-527.	3.1	204
5	FUS stimulates microRNA biogenesis by facilitating co-transcriptional Drosha recruitment. EMBO Journal, 2012, 31, 4502-4510.	3.5	201
6	A regulatory circuitry comprised of miR-302 and the transcription factors OCT4 and NR2F2 regulates human embryonic stem cell differentiation. EMBO Journal, 2011, 30, 237-248.	3.5	190
7	Body-wide gene therapy of Duchenne muscular dystrophy in the mdx mouse model. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3758-3763.	3.3	134
8	ALS mutant FUS proteins are recruited into stress granules in induced Pluripotent Stem Cells (iPSCs) derived motoneurons. DMM Disease Models and Mechanisms, 2015, 8, 755-66.	1.2	121
9	Enriched environment reduces glioma growth through immune and non-immune mechanisms in mice. Nature Communications, 2015, 6, 6623.	5.8	104
10	Heterochromatic gene repression of the retinoic acid pathway in acute myeloid leukemia. Blood, 2007, 109, 4432-4440.	0.6	82
11	FUS Mutant Human Motoneurons Display Altered Transcriptome and microRNA Pathways with Implications for ALS Pathogenesis. Stem Cell Reports, 2017, 9, 1450-1462.	2.3	77
12	A new vector, based on the PolII promoter for the U1 snRNA gene, for the expression of siRNAs in mammalian cells. Molecular Therapy, 2004, 10, 191-199.	3.7	76
13	FUS ALS-causative mutations impair FUS autoregulation and splicing factor networks through intron retention. Nucleic Acids Research, 2020, 48, 6889-6905.	6.5	70
14	Long Noncoding RNA Regulation of Pluripotency. Stem Cells International, 2016, 2016, 1-9.	1.2	64
15	Construction of 3D in vitro models by bioprinting human pluripotent stem cells: Challenges and opportunities. Brain Research, 2019, 1723, 146393.	1.1	64
16	MicroRNAs in early vertebrate development. Cell Cycle, 2009, 8, 3513-3520.	1.3	62
17	Mapping the amide I absorption in single bacteria and mammalian cells with resonant infrared nanospectroscopy. Nanotechnology, 2016, 27, 075101.	1.3	51
18	Mutant FUS and ELAVL4 (HuD) Aberrant Crosstalk in Amyotrophic Lateral Sclerosis. Cell Reports, 2019, 27, 3818-3831.e5.	2.9	51

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19	Chimeric Adeno-Associated Virus/Antisense U1 Small Nuclear RNA Effectively Rescues Dystrophin Synthesis and Muscle Function by Local Treatment of mdx Mice. Human Gene Therapy, 2006, 17, 565-574.	1.4	45
20	Background-deflection Brillouin microscopy reveals altered biomechanics of intracellular stress granules by ALS protein FUS. Communications Biology, 2018, 1, 139.	2.0	45
21	miR-373 is regulated by TGFÎ² signaling and promotes mesendoderm differentiation in human Embryonic Stem Cells. Developmental Biology, 2014, 391, 81-88.	0.9	44
22	3D Bioprinted Human Cortical Neural Constructs Derived from Induced Pluripotent Stem Cells. Journal of Clinical Medicine, 2019, 8, 1595.	1.0	43
23	APOBEC2, a selective inhibitor of TGFÎ² signaling, regulates leftâ€“right axis specification during early embryogenesis. Developmental Biology, 2011, 350, 13-23.	0.9	42
24	Regulatory Non-Coding RNAs in Pluripotent Stem Cells. International Journal of Molecular Sciences, 2013, 14, 14346-14373.	1.8	40
25	Direct conversion of human pluripotent stem cells into cranial motor neurons using a piggyBac vector. Stem Cell Research, 2018, 29, 189-196.	0.3	38
26	Novel fragile X syndrome 2D and 3D brain models based on human isogenic FMRP-KO iPSCs. Cell Death and Disease, 2021, 12, 498.	2.7	38
27	FUS-ALS mutants alter FMRP phase separation equilibrium and impair protein translation. Science Advances, 2021, 7, .	4.7	36
28	Differentiation of control and ALS mutant human iPSCs into functional skeletal muscle cells, a tool for the study of neuromuscolar diseases. Stem Cell Research, 2016, 17, 140-147.	0.3	31
29	HOTAIRM1 regulates neuronal differentiation by modulating NEUROGENIN 2 and the downstream neurogenic cascade. Cell Death and Disease, 2020, 11, 527.	2.7	28
30	Establishment of an in Vitro Human Blood-Brain Barrier Model Derived from Induced Pluripotent Stem Cells and Comparison to a Porcine Cell-Based System. Cells, 2020, 9, 994.	1.8	28
31	Pur-alpha functionally interacts with FUS carrying ALS-associated mutations. Cell Death and Disease, 2015, 6, e1943-e1943.	2.7	26
32	Acute conversion of patient-derived Duchenne muscular dystrophy iPSC into myotubes reveals constitutive and inducible over-activation of TGFÎ²-dependent pro-fibrotic signaling. Skeletal Muscle, 2020, 10, 13.	1.9	25
33	The Aurora-A/TPX2 Axis Directs Spindle Orientation in Adherent Human Cells by Regulating NuMA and Microtubule Stability. Current Biology, 2021, 31, 658-667.e5.	1.8	25
34	Synthetic mRNAs: Powerful Tools for Reprogramming and Differentiation of Human Cells. Cell Stem Cell, 2010, 7, 549-550.	5.2	22
35	ALS-related FUS mutations alter axon growth in motoneurons and affect HuD/ELAVL4 and FMRP activity. Communications Biology, 2021, 4, 1025.	2.0	21
36	Emerging Role for MicroRNAs in Acute Promyelocytic Leukemia. , 2007, 313, 73-84.		20

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37	High-throughput screening identifies histone deacetylase inhibitors that modulate GTF2I expression in 7q11.23 microduplication autism spectrum disorder patient-derived cortical neurons. Molecular Autism, 2020, 11, 88.	2.6	20
38	Role of microRNAs in myeloid differentiation. Biochemical Society Transactions, 2008, 36, 1201-1205.	1.6	19
39	Loss of miR-107, miR-181c and miR-29a-3p Promote Activation of Notch2 Signaling in Pediatric High-Grade Gliomas (pHGGs). International Journal of Molecular Sciences, 2017, 18, 2742.	1.8	19
40	Excess TPX2 Interferes with Microtubule Disassembly and Nuclei Reformation at Mitotic Exit. Cells, 2020, 9, 374.	1.8	19
41	Protein clustering in chemically stressed HeLa cells studied by infrared nanospectroscopy. Nanoscale, 2016, 8, 17560-17567.	2.8	18
42	Conversion of Human Induced Pluripotent Stem Cells (iPSCs) into Functional Spinal and Cranial Motor Neurons Using PiggyBac Vectors. Journal of Visualized Experiments, 2019, , .	0.2	18
43	Proteomics analysis of FUS mutant human motoneurons reveals altered regulation of cytoskeleton and other ALS-linked proteins via 3â€²UTR binding. Scientific Reports, 2020, 10, 11827.	1.6	18
44	Small heat-shock protein HSPB3 promotes myogenesis by regulating the lamin B receptor. Cell Death and Disease, 2021, 12, 452.	2.7	16
45	MicroRNAs and Hematopoietic Differentiation. Cold Spring Harbor Symposia on Quantitative Biology, 2006, 71, 205-210.	2.0	15
46	Single-cell transcriptomics identifies master regulators of neurodegeneration in SOD1 ALS iPSC-derived motor neurons. Stem Cell Reports, 2021, 16, 3020-3035.	2.3	14
47	Transâ€generational epigenetic regulation associated with the amelioration of Duchenne Muscular Dystrophy. EMBO Molecular Medicine, 2020, 12, e12063.	3.3	11
48	Role of MicroRNAs in Zygotic Genome Activation: Modulation of mRNA During Embryogenesis. Methods in Molecular Biology, 2017, 1605, 31-43.	0.4	10
49	N-terminus-modified Hec1 suppresses tumour growth by interfering with kinetochoreâ€“microtubule dynamics. Oncogene, 2015, 34, 3325-3335.	2.6	9
50	Importin beta and CRM1 control a RANBP2 spatiotemporal switch essential for mitotic kinetochore function. Journal of Cell Science, 2017, 130, 2564-2578.	1.2	9
51	Inducible SMARCAL1 knockdown in iPSC reveals a link between replication stress and altered expression of master differentiation genes. DMM Disease Models and Mechanisms, 2019, 12, .	1.2	9
52	Upregulation of Î²-catenin due to loss of miR-139 contributes to motor neuron death in amyotrophic lateral sclerosis. Stem Cell Reports, 2022, , .	2.3	9
53	A Computational Approach to Investigate TDP-43 RNA-Recognition Motif 2 C-Terminal Fragments Aggregation in Amyotrophic Lateral Sclerosis. Biomolecules, 2021, 11, 1905.	1.8	5
54	Identification of Molecular Signatures in Neural Differentiation and Neurological Diseases Using Digital Color-Coded Molecular Barcoding. Stem Cells International, 2020, 2020, 1-9.	1.2	3

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55	Divergent lncRNAs take the lead on pluripotent cell differentiation. Stem Cell Investigation, 2016, 3, 47-47.	1.3	2
56	Non Coding RNA in Muscle Differentiation and Disease. MicroRNA (Shariqah, United Arab Emirates), 2013, 2, 91-101.	0.6	1
57	Editorial: The RNA Revolution in Embryonic Development and Cell Differentiation in Health and Disease. Frontiers in Cell and Developmental Biology, 2021, 9, 715341.	1.8	1
58	The Aurora-A/TPX2 Axis Directs Spindle Orientation by Regulating NuMa and Microtubule Dynamics. SSRN Electronic Journal, 0, , .	0.4	1
59	PiggyBac vectors in pluripotent stem cell research and applications. , 2021, , 55-78.		0
60	Mutant FUS and ELAVL4 (HuD) Aberrant Crosstalk in Amyotrophic Lateral Sclerosis. SSRN Electronic Journal, 0, , .	0.4	0
61	Towards intracellular phase transitions in ALS disease by noncontact Brillouin microscopy (Conference Presentation). , 2020, , .		0
62	Culture of Human iPSC-Derived Motoneurons in Compartmentalized Microfluidic Devices and Quantitative Assays for Studying Axonal Phenotypes. Methods in Molecular Biology, 2022, 2429, 189-199.	0.4	0