

Alessandro Rosa

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

4,010
citations

218592

26
h-index

149623

56
g-index

69
all docs

69
docs citations

69
times ranked

6517
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Culture of Human iPSC-Derived Motoneurons in Compartmentalized Microfluidic Devices and Quantitative Assays for Studying Axonal Phenotypes. <i>Methods in Molecular Biology</i> , 2022, 2429, 189-199. | 0.4 | 0 |
| 2 | Upregulation of β -catenin due to loss of miR-139 contributes to motor neuron death in amyotrophic lateral sclerosis. <i>Stem Cell Reports</i> , 2022, , . | 2.3 | 9 |
| 3 | The Aurora-A/TPX2 Axis Directs Spindle Orientation in Adherent Human Cells by Regulating NuMA and Microtubule Stability. <i>Current Biology</i> , 2021, 31, 658-667.e5. | 1.8 | 25 |
| 4 | PiggyBac vectors in pluripotent stem cell research and applications. , 2021, , 55-78. | | 0 |
| 5 | Novel fragile X syndrome 2D and 3D brain models based on human isogenic FMRP-KO iPSCs. <i>Cell Death and Disease</i> , 2021, 12, 498. | 2.7 | 38 |
| 6 | Small heat-shock protein HSPB3 promotes myogenesis by regulating the lamin B receptor. <i>Cell Death and Disease</i> , 2021, 12, 452. | 2.7 | 16 |
| 7 | FUS-ALS mutants alter FMRP phase separation equilibrium and impair protein translation. <i>Science Advances</i> , 2021, 7, . | 4.7 | 36 |
| 8 | Editorial: The RNA Revolution in Embryonic Development and Cell Differentiation in Health and Disease. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 715341. | 1.8 | 1 |
| 9 | ALS-related FUS mutations alter axon growth in motoneurons and affect HuD/ELAVL4 and FMRP activity. <i>Communications Biology</i> , 2021, 4, 1025. | 2.0 | 21 |
| 10 | Single-cell transcriptomics identifies master regulators of neurodegeneration in SOD1 ALS iPSC-derived motor neurons. <i>Stem Cell Reports</i> , 2021, 16, 3020-3035. | 2.3 | 14 |
| 11 | A Computational Approach to Investigate TDP-43 RNA-Recognition Motif 2 C-Terminal Fragments Aggregation in Amyotrophic Lateral Sclerosis. <i>Biomolecules</i> , 2021, 11, 1905. | 1.8 | 5 |
| 12 | HOTAIRM1 regulates neuronal differentiation by modulating NEUROGENIN 2 and the downstream neurogenic cascade. <i>Cell Death and Disease</i> , 2020, 11, 527. | 2.7 | 28 |
| 13 | Proteomics analysis of FUS mutant human motoneurons reveals altered regulation of cytoskeleton and other ALS-linked proteins via 3'UTR binding. <i>Scientific Reports</i> , 2020, 10, 11827. | 1.6 | 18 |
| 14 | High-throughput screening identifies histone deacetylase inhibitors that modulate GTF2I expression in 7q11.23 microduplication autism spectrum disorder patient-derived cortical neurons. <i>Molecular Autism</i> , 2020, 11, 88. | 2.6 | 20 |
| 15 | Identification of Molecular Signatures in Neural Differentiation and Neurological Diseases Using Digital Color-Coded Molecular Barcoding. <i>Stem Cells International</i> , 2020, 2020, 1-9. | 1.2 | 3 |
| 16 | Acute conversion of patient-derived Duchenne muscular dystrophy iPSC into myotubes reveals constitutive and inducible over-activation of TGF β -dependent pro-fibrotic signaling. <i>Skeletal Muscle</i> , 2020, 10, 13. | 1.9 | 25 |
| 17 | FUS ALS-causative mutations impair FUS autoregulation and splicing factor networks through intron retention. <i>Nucleic Acids Research</i> , 2020, 48, 6889-6905. | 6.5 | 70 |
| 18 | Excess TPX2 Interferes with Microtubule Disassembly and Nuclei Reformation at Mitotic Exit. <i>Cells</i> , 2020, 9, 374. | 1.8 | 19 |

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|----|---|-----|-----------|
| 19 | Establishment of an in Vitro Human Blood-Brain Barrier Model Derived from Induced Pluripotent Stem Cells and Comparison to a Porcine Cell-Based System. <i>Cells</i> , 2020, 9, 994. | 1.8 | 28 |
| 20 | Transgenerational epigenetic regulation associated with the amelioration of Duchenne Muscular Dystrophy. <i>EMBO Molecular Medicine</i> , 2020, 12, e12063. | 3.3 | 11 |
| 21 | Towards intracellular phase transitions in ALS disease by noncontact Brillouin microscopy (Conference Presentation). , 2020, , . | | 0 |
| 22 | Construction of 3D in vitro models by bioprinting human pluripotent stem cells: Challenges and opportunities. <i>Brain Research</i> , 2019, 1723, 146393. | 1.1 | 64 |
| 23 | 3D Bioprinted Human Cortical Neural Constructs Derived from Induced Pluripotent Stem Cells. <i>Journal of Clinical Medicine</i> , 2019, 8, 1595. | 1.0 | 43 |
| 24 | Mutant FUS and ELAVL4 (HuD) Aberrant Crosstalk in Amyotrophic Lateral Sclerosis. <i>Cell Reports</i> , 2019, 27, 3818-3831.e5. | 2.9 | 51 |
| 25 | Conversion of Human Induced Pluripotent Stem Cells (iPSCs) into Functional Spinal and Cranial Motor Neurons Using PiggyBac Vectors. <i>Journal of Visualized Experiments</i> , 2019, , . | 0.2 | 18 |
| 26 | Inducible SMARCAL1 knockdown in iPSC reveals a link between replication stress and altered expression of master differentiation genes. <i>DMM Disease Models and Mechanisms</i> , 2019, 12, . | 1.2 | 9 |
| 27 | Background-deflection Brillouin microscopy reveals altered biomechanics of intracellular stress granules by ALS protein FUS. <i>Communications Biology</i> , 2018, 1, 139. | 2.0 | 45 |
| 28 | Direct conversion of human pluripotent stem cells into cranial motor neurons using a piggyBac vector. <i>Stem Cell Research</i> , 2018, 29, 189-196. | 0.3 | 38 |
| 29 | Role of MicroRNAs in Zygotic Genome Activation: Modulation of mRNA During Embryogenesis. <i>Methods in Molecular Biology</i> , 2017, 1605, 31-43. | 0.4 | 10 |
| 30 | Importin beta and CRM1 control a RANBP2 spatiotemporal switch essential for mitotic kinetochore function. <i>Journal of Cell Science</i> , 2017, 130, 2564-2578. | 1.2 | 9 |
| 31 | FUS affects circular RNA expression in murine embryonic stem cell-derived motor neurons. <i>Nature Communications</i> , 2017, 8, 14741. | 5.8 | 403 |
| 32 | FUS Mutant Human Motoneurons Display Altered Transcriptome and microRNA Pathways with Implications for ALS Pathogenesis. <i>Stem Cell Reports</i> , 2017, 9, 1450-1462. | 2.3 | 77 |
| 33 | Loss of miR-107, miR-181c and miR-29a-3p Promote Activation of Notch2 Signaling in Pediatric High-Grade Gliomas (pHGGs). <i>International Journal of Molecular Sciences</i> , 2017, 18, 2742. | 1.8 | 19 |
| 34 | Divergent lncRNAs take the lead on pluripotent cell differentiation. <i>Stem Cell Investigation</i> , 2016, 3, 47-47. | 1.3 | 2 |
| 35 | Long Noncoding RNA Regulation of Pluripotency. <i>Stem Cells International</i> , 2016, 2016, 1-9. | 1.2 | 64 |
| 36 | Protein clustering in chemically stressed HeLa cells studied by infrared nanospectroscopy. <i>Nanoscale</i> , 2016, 8, 17560-17567. | 2.8 | 18 |

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|----|--|-----|-----------|
| 37 | Differentiation of control and ALS mutant human iPSCs into functional skeletal muscle cells, a tool for the study of neuromuscular diseases. <i>Stem Cell Research</i> , 2016, 17, 140-147. | 0.3 | 31 |
| 38 | Mapping the amide I absorption in single bacteria and mammalian cells with resonant infrared nanospectroscopy. <i>Nanotechnology</i> , 2016, 27, 075101. | 1.3 | 51 |
| 39 | ALS mutant FUS proteins are recruited into stress granules in induced Pluripotent Stem Cells (iPSCs) derived motoneurons. <i>DMM Disease Models and Mechanisms</i> , 2015, 8, 755-66. | 1.2 | 121 |
| 40 | Enriched environment reduces glioma growth through immune and non-immune mechanisms in mice. <i>Nature Communications</i> , 2015, 6, 6623. | 5.8 | 104 |
| 41 | Pur-alpha functionally interacts with FUS carrying ALS-associated mutations. <i>Cell Death and Disease</i> , 2015, 6, e1943-e1943. | 2.7 | 26 |
| 42 | N-terminus-modified Hec1 suppresses tumour growth by interfering with kinetochore-microtubule dynamics. <i>Oncogene</i> , 2015, 34, 3325-3335. | 2.6 | 9 |
| 43 | miR-373 is regulated by TGF β 2 signaling and promotes mesendoderm differentiation in human Embryonic Stem Cells. <i>Developmental Biology</i> , 2014, 391, 81-88. | 0.9 | 44 |
| 44 | Regulatory Non-Coding RNAs in Pluripotent Stem Cells. <i>International Journal of Molecular Sciences</i> , 2013, 14, 14346-14373. | 1.8 | 40 |
| 45 | Non Coding RNA in Muscle Differentiation and Disease. <i>MicroRNA (Sharjah, United Arab Emirates)</i> , 2013, 2, 91-101. | 0.6 | 1 |
| 46 | FUS stimulates microRNA biogenesis by facilitating co-transcriptional Drosha recruitment. <i>EMBO Journal</i> , 2012, 31, 4502-4510. | 3.5 | 201 |
| 47 | APOBEC2, a selective inhibitor of TGF β 2 signaling, regulates left-right axis specification during early embryogenesis. <i>Developmental Biology</i> , 2011, 350, 13-23. | 0.9 | 42 |
| 48 | A regulatory circuitry comprised of miR-302 and the transcription factors OCT4 and NR2F2 regulates human embryonic stem cell differentiation. <i>EMBO Journal</i> , 2011, 30, 237-248. | 3.5 | 190 |
| 49 | Synthetic mRNAs: Powerful Tools for Reprogramming and Differentiation of Human Cells. <i>Cell Stem Cell</i> , 2010, 7, 549-550. | 5.2 | 22 |
| 50 | MicroRNAs in early vertebrate development. <i>Cell Cycle</i> , 2009, 8, 3513-3520. | 1.3 | 62 |
| 51 | The miR-430/427/302 Family Controls Mesendodermal Fate Specification via Species-Specific Target Selection. <i>Developmental Cell</i> , 2009, 16, 517-527. | 3.1 | 204 |
| 52 | Role of microRNAs in myeloid differentiation. <i>Biochemical Society Transactions</i> , 2008, 36, 1201-1205. | 1.6 | 19 |
| 53 | The interplay between the master transcription factor PU.1 and miR-424 regulates human monocyte/macrophage differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 19849-19854. | 3.3 | 266 |
| 54 | Heterochromatic gene repression of the retinoic acid pathway in acute myeloid leukemia. <i>Blood</i> , 2007, 109, 4432-4440. | 0.6 | 82 |

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|----|--|------|-----------|
| 55 | Emerging Role for MicroRNAs in Acute Promyelocytic Leukemia. , 2007, 313, 73-84. | | 20 |
| 56 | 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 |
| 57 | 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 |
| 58 | MicroRNAs and Hematopoietic Differentiation. Cold Spring Harbor Symposia on Quantitative Biology, 2006, 71, 205-210. | 2.0 | 15 |
| 59 | A Minicircuitry Comprised of MicroRNA-223 and Transcription Factors NFI-A and C/EBP β Regulates Human Granulopoiesis. Cell, 2005, 123, 819-831. | 13.5 | 935 |
| 60 | A new vector, based on the PolIII promoter for the U1 snRNA gene, for the expression of siRNAs in mammalian cells. Molecular Therapy, 2004, 10, 191-199. | 3.7 | 76 |
| 61 | Mutant FUS and ELAVL4 (HuD) Aberrant Crosstalk in Amyotrophic Lateral Sclerosis. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 62 | The Aurora-A/TPX2 Axis Directs Spindle Orientation by Regulating NuMa and Microtubule Dynamics. SSRN Electronic Journal, 0, , . | 0.4 | 1 |