

Samir El-Andaloussi

List of Publications by Year in descending order

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Version: 2024-02-01

94
papers

23,518
citations

38660

50
h-index

37111

96
g-index

97
all docs

97
docs citations

97
times ranked

26602
citing authors

#	ARTICLE	IF	CITATIONS
1	Minimal information for studies of extracellular vesicles 2018 (MISEV2018): a position statement of the International Society for Extracellular Vesicles and update of the MISEV2014 guidelines. <i>Journal of Extracellular Vesicles</i> , 2018, 7, 1535750.	5.5	6,961
2	Extracellular vesicles: biology and emerging therapeutic opportunities. <i>Nature Reviews Drug Discovery</i> , 2013, 12, 347-357.	21.5	2,563
3	Extracellular vesicle in vivo biodistribution is determined by cell source, route of administration and targeting. <i>Journal of Extracellular Vesicles</i> , 2015, 4, 26316.	5.5	1,077
4	Applying extracellular vesicles based therapeutics in clinical trials – an ISEV position paper. <i>Journal of Extracellular Vesicles</i> , 2015, 4, 30087.	5.5	1,020
5	Cells release subpopulations of exosomes with distinct molecular and biological properties. <i>Scientific Reports</i> , 2016, 6, 22519.	1.6	728
6	Methodological Guidelines to Study Extracellular Vesicles. <i>Circulation Research</i> , 2017, 120, 1632-1648.	2.0	728
7	Extracellular vesicles as drug delivery systems: Why and how?. <i>Advanced Drug Delivery Reviews</i> , 2020, 159, 332-343.	6.6	606
8	Advances in therapeutic applications of extracellular vesicles. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	595
9	Isolation of Exosomes from Blood Plasma: Qualitative and Quantitative Comparison of Ultracentrifugation and Size Exclusion Chromatography Methods. <i>PLoS ONE</i> , 2015, 10, e0145686.	1.1	493
10	Ultrafiltration with size-exclusion liquid chromatography for high yield isolation of extracellular vesicles preserving intact biophysical and functional properties. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 879-883.	1.7	487
11	Exosome-mediated delivery of siRNA in vitro and in vivo. <i>Nature Protocols</i> , 2012, 7, 2112-2126.	5.5	484
12	Exosomes for targeted siRNA delivery across biological barriers. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 391-397.	6.6	430
13	Comprehensive Proteomic Analysis of Mesenchymal Stem Cell Exosomes Reveals Modulation of Angiogenesis via Nuclear Factor-KappaB Signaling. <i>Stem Cells</i> , 2016, 34, 601-613.	1.4	407
14	Evidence-Based Clinical Use of Nanoscale Extracellular Vesicles in Nanomedicine. <i>ACS Nano</i> , 2016, 10, 3886-3899.	7.3	397
15	Systemic exosomal siRNA delivery reduced alpha-synuclein aggregates in brains of transgenic mice. <i>Movement Disorders</i> , 2014, 29, 1476-1485.	2.2	384
16	Exosomes surf on filopodia to enter cells at endocytic hot spots, traffic within endosomes, and are targeted to the ER. <i>Journal of Cell Biology</i> , 2016, 213, 173-184.	2.3	326
17	Extracellular vesicles in neurodegenerative disease – pathogenesis to biomarkers. <i>Nature Reviews Neurology</i> , 2016, 12, 346-357.	4.9	299
18	Functional correction in mouse models of muscular dystrophy using exon-skipping tricyclo-DNA oligomers. <i>Nature Medicine</i> , 2015, 21, 270-275.	15.2	263

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19	Design of a peptide-based vector, PepFect6, for efficient delivery of siRNA in cell culture and systemically in vivo. <i>Nucleic Acids Research</i> , 2011, 39, 3972-3987.	6.5	262
20	Optimisation of imaging flow cytometry for the analysis of single extracellular vesicles by using fluorescence-tagged vesicles as biological reference material. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1587567.	5.5	224
21	Cargo-dependent cytotoxicity and delivery efficacy of cell-penetrating peptides: a comparative study. <i>Biochemical Journal</i> , 2007, 407, 285-292.	1.7	217
22	PepFect 14, a novel cell-penetrating peptide for oligonucleotide delivery in solution and as solid formulation. <i>Nucleic Acids Research</i> , 2011, 39, 5284-5298.	6.5	199
23	Peptides for nucleic acid delivery. <i>Advanced Drug Delivery Reviews</i> , 2016, 106, 172-182.	6.6	174
24	Reproducible and scalable purification of extracellular vesicles using combined bind-elute and size exclusion chromatography. <i>Scientific Reports</i> , 2017, 7, 11561.	1.6	168
25	Systematic Methodological Evaluation of a Multiplex Bead-Based Flow Cytometry Assay for Detection of Extracellular Vesicle Surface Signatures. <i>Frontiers in Immunology</i> , 2018, 9, 1326.	2.2	168
26	A stearylated CPP for delivery of splice correcting oligonucleotides using a non-covalent co-incubation strategy. <i>Journal of Controlled Release</i> , 2009, 134, 221-227.	4.8	163
27	The power of imaging to understand extracellular vesicle biology in vivo. <i>Nature Methods</i> , 2021, 18, 1013-1026.	9.0	163
28	The viral protein corona directs viral pathogenesis and amyloid aggregation. <i>Nature Communications</i> , 2019, 10, 2331.	5.8	160
29	Therapeutic Potential of Multipotent Mesenchymal Stromal Cells and Their Extracellular Vesicles. <i>Human Gene Therapy</i> , 2015, 26, 506-517.	1.4	148
30	Functional Delivery of Lipid-Conjugated siRNA by Extracellular Vesicles. <i>Molecular Therapy</i> , 2017, 25, 1580-1587.	3.7	145
31	Exosome-like vesicles released from lipid-induced insulin-resistant muscles modulate gene expression and proliferation of beta recipient cells in mice. <i>Diabetologia</i> , 2016, 59, 1049-1058.	2.9	144
32	Dosing extracellular vesicles. <i>Advanced Drug Delivery Reviews</i> , 2021, 178, 113961.	6.6	134
33	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.	1.6	131
34	Serum-free culture alters the quantity and protein composition of neuroblastoma-derived extracellular vesicles. <i>Journal of Extracellular Vesicles</i> , 2015, 4, 26883.	5.5	131
35	Scavenger receptor-mediated uptake of cell-penetrating peptide nanocomplexes with oligonucleotides. <i>FASEB Journal</i> , 2012, 26, 1172-1180.	0.2	127
36	C9orf72 and RAB7L1 regulate vesicle trafficking in amyotrophic lateral sclerosis and frontotemporal dementia. <i>Brain</i> , 2017, 140, 887-897.	3.7	126

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37	Induction of splice correction by cell-penetrating peptide nucleic acids. <i>Journal of Gene Medicine</i> , 2006, 8, 1262-1273.	1.4	120
38	Delivery is key: lessons learnt from developing splice-switching antisense therapies. <i>EMBO Molecular Medicine</i> , 2017, 9, 545-557.	3.3	119
39	Heterogeneity and interplay of the extracellular vesicle small RNA transcriptome and proteome. <i>Scientific Reports</i> , 2018, 8, 10813.	1.6	118
40	How much dystrophin is enough: the physiological consequences of different levels of dystrophin in the mdx mouse. <i>Human Molecular Genetics</i> , 2015, 24, 4225-4237.	1.4	116
41	Quantification of extracellular vesicles <i>in vitro</i> and <i>in vivo</i> using sensitive bioluminescence imaging. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1800222.	5.5	114
42	Circulating Exosomal miR-20b-5p Is Elevated in Type 2 Diabetes and Could Impair Insulin Action in Human Skeletal Muscle. <i>Diabetes</i> , 2019, 68, 515-526.	0.3	99
43	A CRISPR-Cas9-based reporter system for single-cell detection of extracellular vesicle-mediated functional transfer of RNA. <i>Nature Communications</i> , 2020, 11, 1113.	5.8	99
44	Systematic characterization of extracellular vesicle sorting domains and quantification at the single molecule "single vesicle level by fluorescence correlation spectroscopy and single particle imaging. <i>Journal of Extracellular Vesicles</i> , 2019, 8, 1663043.	5.5	96
45	A Peptide-based Vector for Efficient Gene Transfer In Vitro and In Vivo. <i>Molecular Therapy</i> , 2011, 19, 1457-1467.	3.7	94
46	Identification of storage conditions stabilizing extracellular vesicles preparations. <i>Journal of Extracellular Vesicles</i> , 2022, 11, .	5.5	91
47	Self-Assembly into Nanoparticles Is Essential for Receptor Mediated Uptake of Therapeutic Antisense Oligonucleotides. <i>Nano Letters</i> , 2015, 15, 4364-4373.	4.5	80
48	Delivery of Oligonucleotide Therapeutics: Chemical Modifications, Lipid Nanoparticles, and Extracellular Vesicles. <i>ACS Nano</i> , 2021, 15, 13993-14021.	7.3	74
49	High cerebrospinal amyloid- β 42 is associated with normal cognition in individuals with brain amyloidosis. <i>EClinicalMedicine</i> , 2021, 38, 100988.	3.2	69
50	Use of Nanovesicles from Orange Juice to Reverse Diet-Induced Gut Modifications in Diet-Induced Obese Mice. <i>Molecular Therapy - Methods and Clinical Development</i> , 2020, 18, 880-892.	1.8	58
51	Label-Free Surface Protein Profiling of Extracellular Vesicles by an Electrokinetic Sensor. <i>ACS Sensors</i> , 2019, 4, 1399-1408.	4.0	54
52	Selective release of muscle-specific, extracellular microRNAs during myogenic differentiation. <i>Human Molecular Genetics</i> , 2016, 25, 3960-3974.	1.4	50
53	Multi-level omics analysis in a murine model of dystrophin loss and therapeutic restoration. <i>Human Molecular Genetics</i> , 2015, 24, 6756-6768.	1.4	42
54	GAPDH controls extracellular vesicle biogenesis and enhances the therapeutic potential of EV mediated siRNA delivery to the brain. <i>Nature Communications</i> , 2021, 12, 6666.	5.8	42

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55	Comprehensive RNA-Sequencing Analysis in Serum and Muscle Reveals Novel Small RNA Signatures with Biomarker Potential for DMD. <i>Molecular Therapy - Nucleic Acids</i> , 2018, 13, 1-15.	2.3	41
56	Amelioration of systemic inflammation via the display of two different decoy protein receptors on extracellular vesicles. <i>Nature Biomedical Engineering</i> , 2021, 5, 1084-1098.	11.6	41
57	Synthetic SiRNA Delivery: Progress and Prospects. <i>Methods in Molecular Biology</i> , 2016, 1364, 291-310.	0.4	39
58	Considerations and Implications in the Purification of Extracellular Vesicles – A Cautionary Tale. <i>Frontiers in Neuroscience</i> , 2019, 13, 1067.	1.4	39
59	Optimised Electroporation for Loading of Extracellular Vesicles with Doxorubicin. <i>Pharmaceutics</i> , 2022, 14, 38.	2.0	39
60	UFLC-Derived CSF Extracellular Vesicle Origin and Proteome. <i>Proteomics</i> , 2018, 18, e1800257.	1.3	36
61	Multiparametric Profiling of Single Nanoscale Extracellular Vesicles by Combined Atomic Force and Fluorescence Microscopy: Correlation and Heterogeneity in Their Molecular and Biophysical Features. <i>Small</i> , 2021, 17, e2008155.	5.2	31
62	High-Resolution Imaging Flow Cytometry Reveals Impact of Incubation Temperature on Labeling of Extracellular Vesicles with Antibodies. <i>Cytometry Part A: the Journal of the International Society for Analytical Cytology</i> , 2020, 97, 602-609.	1.1	30
63	Targeting OGG1 arrests cancer cell proliferation by inducing replication stress. <i>Nucleic Acids Research</i> , 2020, 48, 12234-12251.	6.5	29
64	Micro-minicircle Gene Therapy: Implications of Size on Fermentation, Complexation, Shearing Resistance, and Expression. <i>Molecular Therapy - Nucleic Acids</i> , 2014, 3, e140.	2.3	28
65	Growth Media Conditions Influence the Secretion Route and Release Levels of Engineered Extracellular Vesicles. <i>Advanced Healthcare Materials</i> , 2022, 11, e2101658.	3.9	28
66	Engineered extracellular vesicle decoy receptor-mediated modulation of the IL6 trans-signalling pathway in muscle. <i>Biomaterials</i> , 2021, 266, 120435.	5.7	26
67	Efficient Peptide-Mediated In Vitro Delivery of Cas9 RNP. <i>Pharmaceutics</i> , 2021, 13, 878.	2.0	24
68	Salivary extracellular vesicles inhibit Zika virus but not SARS-CoV-2 infection. <i>Journal of Extracellular Vesicles</i> , 2020, 9, 1808281.	5.5	23
69	Functional extracellular vesicles aplenty. <i>Nature Biomedical Engineering</i> , 2020, 4, 9-11.	11.6	23
70	Phenotype-Agnostic Molecular Subtyping of Neurodegenerative Disorders: The Cincinnati Cohort Biomarker Program (CCBP). <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 553635.	1.7	22
71	Disentangling the Amyloid Pathways: A Mechanistic Approach to Etiology. <i>Frontiers in Neuroscience</i> , 2020, 14, 256.	1.4	21
72	Extracellular vesicles are the primary source of blood-borne tumour-derived mutant <i>KRAS</i> DNA early in pancreatic cancer. <i>Journal of Extracellular Vesicles</i> , 2021, 10, e12142.	5.5	21

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73	Human Amnion Epithelial Cells Impair T Cell Proliferation: The Role of HLA-G and HLA-E Molecules. <i>Cells</i> , 2020, 9, 2123.	1.8	19
74	Lipid-based Transfection Reagents Exhibit Cryo-induced Increase in Transfection Efficiency. <i>Molecular Therapy - Nucleic Acids</i> , 2016, 5, e290.	2.3	17
75	Novel peptide-dendrimer/lipid/oligonucleotide ternary complexes for efficient cellular uptake and improved splice-switching activity. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018, 132, 29-40.	2.0	17
76	Supramolecular Assembly of Aminoethylene-Lipopeptide PMO Conjugates into RNA Splice-Switching Nanomicelles. <i>Advanced Functional Materials</i> , 2019, 29, 1906432.	7.8	14
77	Tangential Flow Filtration with or Without Subsequent Bind-Elute Size Exclusion Chromatography for Purification of Extracellular Vesicles. <i>Methods in Molecular Biology</i> , 2019, 1953, 287-299.	0.4	14
78	From Gut to Brain: Bioencapsulated Therapeutic Protein Reduces Amyloid Load Upon Oral Delivery. <i>Molecular Therapy</i> , 2014, 22, 485-486.	3.7	13
79	Four Novel Splice-Switch Reporter Cell Lines: Distinct Impact of Oligonucleotide Chemistry and Delivery Vector on Biological Activity. <i>Nucleic Acid Therapeutics</i> , 2016, 26, 381-391.	2.0	12
80	Single-Stranded Nucleic Acids Regulate TLR3/4/7 Activation through Interference with Clathrin-Mediated Endocytosis. <i>Scientific Reports</i> , 2018, 8, 15841.	1.6	12
81	Profiling of Extracellular Small RNAs Highlights a Strong Bias towards Non-Vesicular Secretion. <i>Cells</i> , 2021, 10, 1543.	1.8	11
82	Sugar and Polymer Excipients Enhance Uptake and Splice-Switching Activity of Peptide-Dendrimer/Lipid/Oligonucleotide Formulations. <i>Pharmaceutics</i> , 2019, 11, 666.	2.0	10
83	Diagnostic and Prognostic Utility of the Extracellular Vesicles Subpopulations Present in Pleural Effusion. <i>Biomolecules</i> , 2021, 11, 1606.	1.8	10
84	Translocation-generated ITK-FER and ITK-SYK fusions induce STAT3 phosphorylation and CD69 expression. <i>Biochemical and Biophysical Research Communications</i> , 2018, 504, 749-752.	1.0	8
85	Novel endosomolytic compounds enable highly potent delivery of antisense oligonucleotides. <i>Communications Biology</i> , 2022, 5, 185.	2.0	7
86	mRNA and microRNA transcriptomics analyses in a murine model of dystrophin loss and therapeutic restoration. <i>Genomics Data</i> , 2016, 7, 88-89.	1.3	6
87	Novel Orthogonally Hydrocarbon-Modified Cell-Penetrating Peptide Nanoparticles Mediate Efficient Delivery of Splice-Switching Antisense Oligonucleotides In Vitro and In Vivo. <i>Biomedicines</i> , 2021, 9, 1046.	1.4	6
88	Description and optimization of a multiplex bead-based flow cytometry method (MBFCM) to characterize extracellular vesicles in serum samples from patients with hematological malignancies. <i>Cancer Gene Therapy</i> , 2022, 29, 1600-1615.	2.2	6
89	The kidney injury caused by the onset of acute graft-versus-host disease is associated with down-regulation of β -Klotho. <i>International Immunopharmacology</i> , 2020, 78, 106042.	1.7	5
90	Lipophilic Peptide Dendrimers for Delivery of Splice-Switching Oligonucleotides. <i>Pharmaceutics</i> , 2021, 13, 116.	2.0	5

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91	Smadâ€™binding decoy reduces extracellular matrix expression in human hypertrophic scar fibroblasts. <i>Molecular Medicine Reports</i> , 2020, 22, 4589-4600.	1.1	3
92	Circular RNA interference effector molecules (WO10084371). <i>Expert Opinion on Therapeutic Patents</i> , 2011, 21, 115-119.	2.4	2
93	Isolation and Characterization of Extracellular Vesicles from Keratinocyte Cultures. <i>Methods in Molecular Biology</i> , 2019, 2109, 35-44.	0.4	1
94	Combination of Coordination and Releasable Covalent Binding for the Delivery of Antisense Therapeutics by Bisphosphonate-Hyaluronan-Oligonucleotide Conjugates. <i>ACS Applied Polymer Materials</i> , 2021, 3, 2197-2210.	2.0	1