

Meltem Avci-Adali

List of Publications by Year in descending order

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Version: 2024-02-01

67
papers

2,309
citations

279798

23
h-index

223800

46
g-index

67
all docs

67
docs citations

67
times ranked

3675
citing authors

#	ARTICLE	IF	CITATIONS
1	Blood-Contacting Biomaterials: In Vitro Evaluation of the Hemocompatibility. <i>Frontiers in Bioengineering and Biotechnology</i> , 2018, 6, 99.	4.1	382
2	Induction of EPC homing on biofunctionalized vascular grafts for rapid in vivo self-endothelialization – A review of current strategies. <i>Biotechnology Advances</i> , 2010, 28, 119-129.	11.7	181
3	Development of hydrogels for regenerative engineering. <i>Biotechnology Journal</i> , 2017, 12, 1600394.	3.5	139
4	Human Mesenchymal Stromal Cells from Different Sources Diverge in Their Expression of Cell Surface Proteins and Display Distinct Differentiation Patterns. <i>Stem Cells International</i> , 2016, 2016, 1-9.	2.5	134
5	Upgrading SELEX Technology by Using Lambda Exonuclease Digestion for Single-Stranded DNA Generation. <i>Molecules</i> , 2010, 15, 1-11.	3.8	116
6	Hemocompatibility evaluation of different silver nanoparticle concentrations employing a modified Chandler-loop in vitro assay on human blood. <i>Acta Biomaterialia</i> , 2013, 9, 7460-7468.	8.3	111
7	New strategies for in vivo tissue engineering by mimicry of homing factors for self-endothelialisation of blood contacting materials. <i>Biomaterials</i> , 2008, 29, 3936-3945.	11.4	97
8	Tissue adhesives: From research to clinical translation. <i>Nano Today</i> , 2021, 36, 101049.	11.9	90
9	Streptavidin-Coated Magnetic Beads for DNA Strand Separation Implicate a Multitude of Problems During Cell-SELEX. <i>Oligonucleotides</i> , 2009, 19, 243-254.	2.7	64
10	Concise Review: Application of In Vitro Transcribed Messenger RNA for Cellular Engineering and Reprogramming: Progress and Challenges. <i>Stem Cells</i> , 2017, 35, 68-79.	3.2	56
11	Intradermal Delivery of Synthetic mRNA Using Hollow Microneedles for Efficient and Rapid Production of Exogenous Proteins in Skin. <i>Molecular Therapy - Nucleic Acids</i> , 2018, 11, 382-392.	5.1	55
12	Endothelial progenitor cell capture stents – hype or hope?. <i>International Journal of Cardiology</i> , 2010, 145, 115-117.	1.7	51
13	Potential Capacity of Aptamers to Trigger Immune Activation in Human Blood. <i>PLoS ONE</i> , 2013, 8, e68810.	2.5	42
14	Pitfalls of Cell-Systematic Evolution of Ligands by Exponential Enrichment (SELEX): Existing Dead Cells During <i>In Vitro</i> Selection Anticipate the Enrichment of Specific Aptamers. <i>Oligonucleotides</i> , 2010, 20, 317-323.	2.7	39
15	Hemocompatibility testing according to ISO 10993-4: Discrimination between pyrogen- and device-induced hemostatic activation. <i>Materials Science and Engineering C</i> , 2014, 42, 422-428.	7.3	39
16	Optimized conditions for successful transfection of human endothelial cells with in vitro synthesized and modified mRNA for induction of protein expression. <i>Journal of Biological Engineering</i> , 2014, 8, 8.	4.7	35
17	Preclinical Evaluation of the Thrombogenicity and Endothelialization of Bare Metal and Surface-Coated Neurovascular Stents. <i>American Journal of Neuroradiology</i> , 2015, 36, 133-139.	2.4	33
18	De Novo Synthesis of Elastin by Exogenous Delivery of Synthetic Modified mRNA into Skin and Elastin-Deficient Cells. <i>Molecular Therapy - Nucleic Acids</i> , 2018, 11, 475-484.	5.1	32

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19	Cationic Nanoliposomes Meet mRNA: Efficient Delivery of Modified mRNA Using Hemocompatible and Stable Vectors for Therapeutic Applications. <i>Molecular Therapy - Nucleic Acids</i> , 2017, 8, 459-468.	5.1	31
20	Current Strategies for the Regeneration of Skeletal Muscle Tissue. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5929.	4.1	29
21	Reprogramming of Urine-Derived Renal Epithelial Cells into iPSCs Using srRNA and Consecutive Differentiation into Beating Cardiomyocytes. <i>Molecular Therapy - Nucleic Acids</i> , 2019, 17, 907-921.	5.1	26
22	Cell motility and migration as determinants of stem cell efficacy. <i>EBioMedicine</i> , 2020, 60, 102989.	6.1	26
23	In Vitro Synthesis of Modified mRNA for Induction of Protein Expression in Human Cells. <i>Journal of Visualized Experiments</i> , 2014, , e51943.	0.3	25
24	Incorporation of Synthetic mRNA in Injectable Chitosan-Alginate Hybrid Hydrogels for Local and Sustained Expression of Exogenous Proteins in Cells. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1313.	4.1	25
25	Generation of iPSCs by Nonintegrative RNA-Based Reprogramming Techniques: Benefits of Self-Replicating RNA versus Synthetic mRNA. <i>Stem Cells International</i> , 2019, 2019, 1-16.	2.5	25
26	In vivo Tissue Engineering: Mimicry of Homing Factors for Self-Endothelialization of Blood-Contacting Materials. <i>Pathobiology</i> , 2013, 80, 176-181.	3.8	24
27	Absolute Quantification of Cell-Bound DNA Aptamers During SELEX. <i>Nucleic Acid Therapeutics</i> , 2013, 23, 125-130.	3.6	22
28	Generation of Large-Scale DNA Hydrogels with Excellent Blood and Cell Compatibility. <i>Macromolecular Bioscience</i> , 2017, 17, 1600252.	4.1	22
29	Improving the Angiogenic Potential of EPCs via Engineering with Synthetic Modified mRNAs. <i>Molecular Therapy - Nucleic Acids</i> , 2018, 13, 387-398.	5.1	22
30	Selection of aptamers against triple negative breast cancer cells using high throughput sequencing. <i>Scientific Reports</i> , 2021, 11, 8614.	3.3	22
31	Drug repurposing studies of PARP inhibitors as a new therapy for inherited retinal degeneration. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 2199-2216.	5.4	20
32	Small-Interfering RNA-Eluting Surfaces as a Novel Concept for Intravascular Local Gene Silencing. <i>Molecular Medicine</i> , 2011, 17, 1213-1222.	4.4	18
33	Delivery of synthetic mRNAs for tissue regeneration. <i>Advanced Drug Delivery Reviews</i> , 2021, 179, 114007.	13.7	18
34	Current Strategies and Future Perspectives of Skin-on-a-Chip Platforms: Innovations, Technical Challenges and Commercial Outlook. <i>Current Pharmaceutical Design</i> , 2019, 24, 5437-5457.	1.9	17
35	Aptamers Influence the Hemostatic System by Activating the Intrinsic Coagulation Pathway in an In Vitro Chandler-Loop Model. <i>Clinical and Applied Thrombosis/Hemostasis</i> , 2010, 16, 161-169.	1.7	15
36	Inducing Differentiation of Premalignant Hepatic Cells as a Novel Therapeutic Strategy in Hepatocarcinoma. <i>Cancer Research</i> , 2016, 76, 5550-5561.	0.9	15

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37	A DNA hydrogel gated organic field effect transistor. <i>Organic Electronics</i> , 2019, 75, 105402.	2.6	15
38	In vitro Study of a Novel Stent Coating Using Modified CD39 Messenger RNA to Potentially Reduce Stent Angioplasty-Associated Complications. <i>PLoS ONE</i> , 2015, 10, e0138375.	2.5	15
39	Hemocompatibility of Axial Versus Centrifugal Pump Technology in Mechanical Circulatory Support Devices. <i>Artificial Organs</i> , 2015, 39, 723-728.	1.9	14
40	<i>In Vitro</i> Evaluation of a Novel mRNA-Based Therapeutic Strategy for the Treatment of Patients Suffering from Alpha-1-Antitrypsin Deficiency. <i>Nucleic Acid Therapeutics</i> , 2015, 25, 235-244.	3.6	13
41	Generation of iPSCs from Jaw Periosteal Cells Using Self-Replicating RNA. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1648.	4.1	13
42	Application of a rotating bioreactor consisting of low-cost and ready-to-use medical disposables for <i>in vitro</i> evaluation of the endothelialization efficiency of small-caliber vascular prostheses. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101B, 1061-1068.	3.4	12
43	Efficient reduction of synthetic mRNA induced immune activation by simultaneous delivery of B18R encoding mRNA. <i>Journal of Biological Engineering</i> , 2019, 13, 40.	4.7	11
44	A Novel C1-Esterase Inhibitor Oxygenator Coating Prevents FXII Activation in Human Blood. <i>Biomolecules</i> , 2020, 10, 1042.	4.0	11
45	One-Stage Aptamer-Based Isolation and Application of Endothelial Progenitor Cells in a Porcine Myocardial Infarction Model. <i>Nucleic Acid Therapeutics</i> , 2015, 25, 20-26.	3.6	10
46	Rapid Complexation of Aptamers by Their Specific Antidotes. <i>Molecules</i> , 2017, 22, 954.	3.8	10
47	iPSC-Derived MSCs Versus Originating Jaw Periosteal Cells: Comparison of Resulting Phenotype and Stem Cell Potential. <i>International Journal of Molecular Sciences</i> , 2020, 21, 587.	4.1	10
48	Microfluidic chip system for the selection and enrichment of cell binding aptamers. <i>Biomicrofluidics</i> , 2015, 9, 034111.	2.4	9
49	<i>In vitro</i> test system for evaluation of immune activation potential of new single-stranded DNA-based therapeutics. <i>Drug Testing and Analysis</i> , 2015, 7, 300-308.	2.6	8
50	Exogenous Delivery of Link N mRNA into Chondrocytes and MSCs—The Potential Role in Increasing Anabolic Response. <i>International Journal of Molecular Sciences</i> , 2019, 20, 1716.	4.1	8
51	Porcine EPCs downregulate stem cell markers and upregulate endothelial maturation markers during <i>in vitro</i> cultivation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2009, 3, 512-520.	2.7	7
52	New basic approach to treat non-small cell lung cancer based on <i>RNA interference</i> . <i>Thoracic Cancer</i> , 2014, 5, 112-120.	1.9	7
53	Speeding up pyrogenicity testing: Identification of suitable cell components and readout parameters for an accelerated monocyte activation test (MAT). <i>Drug Testing and Analysis</i> , 2017, 9, 260-273.	2.6	6
54	RNA-Eluting Surfaces for the Modulation of Gene Expression as A Novel Stent Concept. <i>Pharmaceuticals</i> , 2017, 10, 23.	3.8	5

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55	Hemocompatibility of new magnetically-levitated centrifugal pump technology compared to the CentriMag adult pump. <i>Scientific Reports</i> , 2020, 10, 22055.	3.3	5
56	Hydrojet-based delivery of footprint-free iPSC-derived cardiomyocytes into porcine myocardium. <i>Scientific Reports</i> , 2020, 10, 16787.	3.3	4
57	Influence of Human Jaw Periosteal Cells Seeded $\hat{2}$ -Tricalcium Phosphate Scaffolds on Blood Coagulation. <i>International Journal of Molecular Sciences</i> , 2021, 22, 9942.	4.1	4
58	Current trends in delivery of non-viral nucleic acid-based therapeutics for improved efficacy. <i>Advanced Drug Delivery Reviews</i> , 2022, 185, 114297.	13.7	4
59	Improving hemocompatibility of artificial lungs by click conjugation of glycoengineered endothelial cells onto blood-contacting surfaces. , 2022, 137, 212824.		3
60	Profiling of time-dependent human plasma protein adsorption on non-coated and heparin-coated oxygenator membranes. , 2022, 139, 213014.		3
61	Importance of Rigorous<i>In Vitro</i>Evaluation of Prospective Cell Binding Aptamers. <i>Nucleic Acid Therapeutics</i> , 2014, 24, 250-257.	3.6	1
62	Selection and Application of Aptamers and Intramers. <i>Advances in Experimental Medicine and Biology</i> , 2016, 917, 241-258.	1.6	1
63	Application of Piezo-Based Measuring System for Evaluation of Nucleic Acid-Based Drugs Influencing the Coagulation. <i>Sensors</i> , 2020, 20, 152.	3.8	1
64	Synthetic Material Abdominal Swabs Reduce Activation of Platelets and Leukocytes Compared to Cotton Materials. <i>Biomolecules</i> , 2021, 11, 1023.	4.0	1
65	Use of Synthetic Single-Stranded Oligonucleotides as Artificial Test Soiling for Validation of Surgical Instrument Cleaning Processes. <i>BioMed Research International</i> , 2014, 2014, 1-8.	1.9	0
66	Selection and Application of Aptamers and Intramers. , 2015, , 241-258.		0
67	Homing of mRNA-Modified Endothelial Progenitor Cells to Inflamed Endothelium. <i>Pharmaceutics</i> , 2022, 14, 1194.	4.5	0