

RenÃ© Handrick

List of Publications by Year in descending order

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33
papers

1,026
citations

430874

18
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434195

31
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all docs

33
docs citations

33
times ranked

1139
citing authors

#	ARTICLE	IF	CITATIONS
1	A blueprint from nature: miRNome comparison of plasma cells and CHO cells to optimize therapeutic antibody production. <i>New Biotechnology</i> , 2022, 66, 79-88.	4.4	8
2	Exploring synthetic biology for the development of a sensor cell line for automated bioprocess control. <i>Scientific Reports</i> , 2022, 12, 2268.	3.3	0
3	Cell line development for continuous high cell density biomanufacturing: Exploiting hypoxia for improved productivity. <i>Metabolic Engineering Communications</i> , 2021, 13, e00181.	3.6	9
4	Unraveling what makes a monoclonal antibody difficult to express: From intracellular accumulation to incomplete folding and degradation via ERAD. <i>Biotechnology and Bioengineering</i> , 2020, 117, 5-16.	3.3	26
5	Infrared attenuated total reflection and 2D fluorescence spectroscopy for the discrimination of differently aggregated monoclonal antibodies. <i>Analyst</i> , The, 2019, 144, 6334-6341.	3.5	0
6	Human CAP cells represent a novel source for functional, miRNA-loaded exosome production. <i>PLoS ONE</i> , 2019, 14, e0221679.	2.5	18
7	mir-124-5p Regulates Phagocytosis of Human Macrophages by Targeting the Actin Cytoskeleton via the ARP2/3 Complex. <i>Frontiers in Immunology</i> , 2019, 10, 2210.	4.8	14
8	A simple dual-inducible CRISPR interference system for multiple gene targeting in <i>Corynebacterium glutamicum</i> . <i>Plasmid</i> , 2019, 103, 25-35.	1.4	28
9	CRISPR/Cas9-Mediated Knockout of MicroRNA-744 Improves Antibody Titer of CHO Production Cell Lines. <i>Biotechnology Journal</i> , 2019, 14, e1800477.	3.5	35
10	Induction of apoptosis in ovarian cancer cells by miR-493-3p directly targeting AKT2, STK38L, HMGA2, ETS1 and E2F5. <i>Cellular and Molecular Life Sciences</i> , 2019, 76, 539-559.	5.4	28
11	Visualisation of intracellular production bottlenecks in suspension-adapted CHO cells producing complex biopharmaceuticals using fluorescence microscopy. <i>Journal of Biotechnology</i> , 2018, 271, 47-55.	3.8	29
12	Stable miRNA overexpression in human CAP cells: Engineering alternative production systems for advanced manufacturing of biologics using miR-136 and miR-3074. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2027-2038.	3.3	9
13	Identification of process conditions influencing protein aggregation in Chinese hamster ovary cell culture. <i>Biotechnology and Bioengineering</i> , 2018, 115, 1173-1185.	3.3	22
14	miR-217-5p induces apoptosis by directly targeting PRKCI, BAG3, ITGAV and MAPK1 in colorectal cancer cells. <i>Journal of Cell Communication and Signaling</i> , 2018, 12, 451-466.	3.4	46
15	High level in vivo mucin-type glycosylation in <i>Escherichia coli</i> . <i>Microbial Cell Factories</i> , 2018, 17, 168.	4.0	17
16	MiR-744-5p inducing cell death by directly targeting HNRNPC and NFIX in ovarian cancer cells. <i>Scientific Reports</i> , 2018, 8, 9020.	3.3	84
17	High-throughput analysis of sub-visible mAb aggregate particles using automated fluorescence microscopy imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 4149-4156.	3.7	19
18	miR-143 targets MAPK7 in CHO cells and induces a hyperproductive phenotype to enhance production of difficult to express proteins. <i>Biotechnology Progress</i> , 2017, 33, 1046-1058.	2.6	18

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19	Investigation on tissue specific effects of pro-apoptotic micro RNAs revealed miR-147b as a potential biomarker in ovarian cancer prognosis. <i>Oncotarget</i> , 2017, 8, 18773-18791.	1.8	22
20	Temperature-sensitive miR-483 is a conserved regulator of recombinant protein and viral vector production in mammalian cells. <i>Biotechnology and Bioengineering</i> , 2016, 113, 830-841.	3.3	29
21	Data of rational process optimization for the production of a full IgG and its Fab fragment from hybridoma cells. <i>Data in Brief</i> , 2016, 8, 426-435.	1.0	5
22	miR-483 is a self-regulating microRNA and can activate its own expression via USF1 in HeLa cells. <i>International Journal of Biochemistry and Cell Biology</i> , 2016, 80, 81-86.	2.8	14
23	Exploring the capabilities of fluorometric online monitoring on chinese hamster ovary cell cultivations producing a monoclonal antibody. <i>Biotechnology Progress</i> , 2016, 32, 1592-1600.	2.6	10
24	miR-2861 as novel HDAC5 inhibitor in CHO cells enhances productivity while maintaining product quality. <i>Biotechnology and Bioengineering</i> , 2015, 112, 2142-2153.	3.3	35
25	Noncoding RNAs, post-transcriptional RNA operons and Chinese hamster ovary cells. <i>Pharmaceutical Bioprocessing</i> , 2015, 3, 227-247.	0.8	15
26	Expression of the functional recombinant human glycosyltransferase GalNAcT2 in Escherichia coli. <i>Microbial Cell Factories</i> , 2015, 14, 3.	4.0	21
27	Fluorescence dye-based detection of mAb aggregates in CHO culture supernatants. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 4849-4856.	3.7	24
28	Unveiling the principle of microRNA-mediated redundancy in cellular pathway regulation. <i>RNA Biology</i> , 2015, 12, 238-247.	3.1	69
29	The art of CHO cell engineering: A comprehensive retrospect and future perspectives. <i>Biotechnology Advances</i> , 2015, 33, 1878-1896.	11.7	240
30	Enhanced protein production by microRNA-30 family in CHO cells is mediated by the modulation of the ubiquitin pathway. <i>Journal of Biotechnology</i> , 2015, 212, 32-43.	3.8	28
31	Establishment of Lipofection for Studying miRNA Function in Human Adipocytes. <i>PLoS ONE</i> , 2014, 9, e98023.	2.5	14
32	A functional high-content miRNA screen identifies miR-30 family to boost recombinant protein production in CHO cells. <i>Biotechnology Journal</i> , 2014, 9, 1279-1292.	3.5	58
33	Breaking limitations of complex culture media: Functional non-viral miRNA delivery into pharmaceutical production cell lines. <i>Journal of Biotechnology</i> , 2013, 168, 589-600.	3.8	32