RenÃ© Handrick

List of Publications by Year
in descending order

33	1,026	430874	434195
papers	citations	18 h-index	31 g-index

33	33	33	1139
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The art of CHO cell engineering: A comprehensive retrospect and future perspectives. Biotechnology Advances, 2015, 33, 1878-1896.	11.7	240
2	MiR-744-5p inducing cell death by directly targeting HNRNPC and NFIX in ovarian cancer cells. Scientific Reports, 2018, 8, 9020.	3.3	84
3	Unveiling the principle of microRNA-mediated redundancy in cellular pathway regulation. RNA Biology, 2015, 12, 238-247.	3.1	69
4	A functional highâ€content miRNA screen identifies miRâ€30 family to boost recombinant protein production in CHO cells. Biotechnology Journal, 2014, 9, 1279-1292.	3.5	58
5	miR-217-5p induces apoptosis by directly targeting PRKCI, BAG3, ITGAV and MAPK1 in colorectal cancer cells. Journal of Cell Communication and Signaling, 2018, 12, 451-466.	3.4	46
6	miRâ€2861 as novel HDAC5 inhibitor in CHO cells enhances productivity while maintaining product quality. Biotechnology and Bioengineering, 2015, 112, 2142-2153.	3.3	35
7	CRISPR/Cas9â€Mediated Knockout of MicroRNAâ€744 Improves Antibody Titer of CHO Production Cell Lines. Biotechnology Journal, 2019, 14, e1800477.	3.5	35
8	Breaking limitations of complex culture media: Functional non-viral miRNA delivery into pharmaceutical production cell lines. Journal of Biotechnology, 2013, 168, 589-600.	3.8	32
9	Temperatureâ€sensitive miRâ€483 is a conserved regulator of recombinant protein and viral vector production in mammalian cells. Biotechnology and Bioengineering, 2016, 113, 830-841.	3.3	29
10	Visualisation of intracellular production bottlenecks in suspension-adapted CHO cells producing complex biopharmaceuticals using fluorescence microscopy. Journal of Biotechnology, 2018, 271, 47-55.	3.8	29
11	Enhanced protein production by microRNA-30 family in CHO cells is mediated by the modulation of the ubiquitin pathway. Journal of Biotechnology, 2015, 212, 32-43.	3.8	28
12	A simple dual-inducible CRISPR interference system for multiple gene targeting in Corynebacterium glutamicum. Plasmid, 2019, 103, 25-35.	1.4	28
13	Induction of apoptosis in ovarian cancer cells by miR-493-3p directly targeting AKT2, STK38L, HMGA2, ETS1 and E2F5. Cellular and Molecular Life Sciences, 2019, 76, 539-559.	5.4	28
14	Unraveling what makes a monoclonal antibody difficultâ€toâ€express: From intracellular accumulation to incomplete folding and degradation via ERAD. Biotechnology and Bioengineering, 2020, 117, 5-16.	3.3	26
15	Fluorescence dye-based detection of mAb aggregates in CHO culture supernatants. Analytical and Bioanalytical Chemistry, 2015, 407, 4849-4856.	3.7	24
16	Identification of process conditions influencing protein aggregation in Chinese hamster ovary cell culture. Biotechnology and Bioengineering, 2018, 115, 1173-1185.	3.3	22
17	Investigation on tissue specific effects of pro-apoptotic micro RNAs revealed miR-147b as a potential biomarker in ovarian cancer prognosis. Oncotarget, 2017, 8, 18773-18791.	1.8	22
18	Expression of the functional recombinant human glycosyltransferase GalNAcT2 in Escherichia coli. Microbial Cell Factories, 2015, 14, 3.	4.0	21

#	Article	IF	Citations
19	High-throughput analysis of sub-visible mAb aggregate particles using automated fluorescence microscopy imaging. Analytical and Bioanalytical Chemistry, 2017, 409, 4149-4156.	3.7	19
20	miRâ€143 targets MAPK7 in CHO cells and induces a hyperproductive phenotype to enhance production of difficultâ€toâ€express proteins. Biotechnology Progress, 2017, 33, 1046-1058.	2.6	18
21	Human CAP cells represent a novel source for functional, miRNA-loaded exosome production. PLoS ONE, 2019, 14, e0221679.	2.5	18
22	High level in vivo mucin-type glycosylation in Escherichia coli. Microbial Cell Factories, 2018, 17, 168.	4.0	17
23	Noncoding RNAs, post-transcriptional RNA operons and Chinese hamster ovary cells. Pharmaceutical Bioprocessing, 2015, 3, 227-247.	0.8	15
24	Establishment of Lipofection for Studying miRNA Function in Human Adipocytes. PLoS ONE, 2014, 9, e98023.	2.5	14
25	miR-483 is a self-regulating microRNA and can activate its own expression via USF1 in HeLa cells. International Journal of Biochemistry and Cell Biology, 2016, 80, 81-86.	2.8	14
26	mir-124-5p Regulates Phagocytosis of Human Macrophages by Targeting the Actin Cytoskeleton via the ARP2/3 Complex. Frontiers in Immunology, 2019, 10, 2210.	4.8	14
27	Exploring the capabilities of fluorometric online monitoring on chinese hamster ovary cell cultivations producing a monoclonal antibody. Biotechnology Progress, 2016, 32, 1592-1600.	2.6	10
28	Stable miRNA overexpression in human CAP cells: Engineering alternative production systems for advanced manufacturing of biologics using miRâ€136 and miRâ€3074. Biotechnology and Bioengineering, 2018, 115, 2027-2038.	3.3	9
29	Cell line development for continuous high cell density biomanufacturing: Exploiting hypoxia for improved productivity. Metabolic Engineering Communications, 2021, 13, e00181.	3.6	9
30	A blueprint from nature: miRNome comparison of plasma cells and CHO cells to optimize therapeutic antibody production. New Biotechnology, 2022, 66, 79-88.	4.4	8
31	Data of rational process optimization for the production of a full IgG and its Fab fragment from hybridoma cells. Data in Brief, 2016, 8, 426-435.	1.0	5
32	Infrared attenuated total reflection and 2D fluorescence spectroscopy for the discrimination of differently aggregated monoclonal antibodies. Analyst, The, 2019, 144, 6334-6341.	3.5	0
33	Exploring synthetic biology for the development of a sensor cell line for automated bioprocess control. Scientific Reports, 2022, 12, 2268.	3.3	0