

# Helene Faustrup Kildegaard

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

1,810  
citations

257101

24  
h-index

276539

41  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1595  
citing authors

#	ARTICLE	IF	CITATIONS
1	Site-specific integration in CHO cells mediated by CRISPR/Cas9 and homology-directed DNA repair pathway. <i>Scientific Reports</i> , 2015, 5, 8572.	1.6	168
2	Accelerating genome editing in CHO cells using CRISPR Cas9 and CRISPy, a web-based target finding tool. <i>Biotechnology and Bioengineering</i> , 2014, 111, 1604-1616.	1.7	167
3	The emerging CHO systems biology era: harnessing the omics revolution for biotechnology. <i>Current Opinion in Biotechnology</i> , 2013, 24, 1102-1107.	3.3	159
4	One-step generation of triple knockout CHO cell lines using CRISPR/Cas9 and fluorescent enrichment. <i>Biotechnology Journal</i> , 2015, 10, 1446-1456.	1.8	108
5	CRISPR/Cas9-mediated genome engineering of CHO cell factories: Application and perspectives. <i>Biotechnology Journal</i> , 2015, 10, 979-994.	1.8	104
6	Cell Factory Engineering. <i>Cell Systems</i> , 2017, 4, 262-275.	2.9	96
7	Genome-scale reconstructions of the mammalian secretory pathway predict metabolic costs and limitations of protein secretion. <i>Nature Communications</i> , 2020, 11, 68.	5.8	74
8	Multiplex secretome engineering enhances recombinant protein production and purity. <i>Nature Communications</i> , 2020, 11, 1908.	5.8	63
9	Accelerated homology-directed targeted integration of transgenes in Chinese hamster ovary cells via CRISPR/Cas9 and fluorescent enrichment. <i>Biotechnology and Bioengineering</i> , 2016, 113, 2518-2523.	1.7	58
10	Improving the secretory capacity of Chinese hamster ovary cells by ectopic expression of effector genes: Lessons learned and future directions. <i>Biotechnology Advances</i> , 2017, 35, 64-76.	6.0	58
11	Minimizing Clonal Variation during Mammalian Cell Line Engineering for Improved Systems Biology Data Generation. <i>ACS Synthetic Biology</i> , 2018, 7, 2148-2159.	1.9	51
12	Ribosome profiling-guided depletion of an mRNA increases cell growth rate and protein secretion. <i>Scientific Reports</i> , 2017, 7, 40388.	1.6	48
13	Glyco-engineered CHO cell lines producing alpha-1-antitrypsin and C1 esterase inhibitor with fully humanized N-glycosylation profiles. <i>Metabolic Engineering</i> , 2019, 52, 143-152.	3.6	42
14	Mitigating Clonal Variation in Recombinant Mammalian Cell Lines. <i>Trends in Biotechnology</i> , 2019, 37, 931-942.	4.9	41
15	Revealing Key Determinants of Clonal Variation in Transgene Expression in Recombinant CHO Cells Using Targeted Genome Editing. <i>ACS Synthetic Biology</i> , 2018, 7, 2867-2878.	1.9	39
16	Reduced apoptosis in Chinese hamster ovary cells via optimized CRISPR interference. <i>Biotechnology and Bioengineering</i> , 2019, 116, 1813-1819.	1.7	39
17	Glycoprofiling effects of media additives on IgG produced by CHO cells in fed-batch bioreactors. <i>Biotechnology and Bioengineering</i> , 2016, 113, 359-366.	1.7	38
18	Enhanced Genome Editing Tools For Multi-Gene Deletion Knock-Out Approaches Using Paired CRISPR sgRNAs in CHO Cells. <i>Biotechnology Journal</i> , 2018, 13, e1700211.	1.8	34

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19	Genetic engineering approaches to improve posttranslational modification of biopharmaceuticals in different production platforms. <i>Biotechnology and Bioengineering</i> , 2019, 116, 2778-2796.	1.7	34
20	Systematic Evaluation of Site-Specific Recombinant Gene Expression for Programmable Mammalian Cell Engineering. <i>ACS Synthetic Biology</i> , 2019, 8, 758-774.	1.9	32
21	Baicalein Reduces Oxidative Stress in CHO Cell Cultures and Improves Recombinant Antibody Productivity. <i>Biotechnology Journal</i> , 2018, 13, e1700425.	1.8	27
22	CRISPR/Cas9-Multiplexed Editing of Chinese Hamster Ovary B4Galact1, 2, 3, and 4 Tailors Glycan Profiles of Therapeutics and Secreted Host Cell Proteins. <i>Biotechnology Journal</i> , 2018, 13, e1800111.	1.8	27
23	Awakening dormant glycosyltransferases in CHO cells with CRISPRa. <i>Biotechnology and Bioengineering</i> , 2020, 117, 593-598.	1.7	27
24	A Versatile System for USER Cloning-Based Assembly of Expression Vectors for Mammalian Cell Engineering. <i>PLoS ONE</i> , 2014, 9, e96693.	1.1	26
25	Versatile microscale screening platform for improving recombinant protein productivity in Chinese hamster ovary cells. <i>Scientific Reports</i> , 2015, 5, 18016.	1.6	23
26	Reprogramming AA catabolism in CHO cells with CRISPR/Cas9 genome editing improves cell growth and reduces byproduct secretion. <i>Metabolic Engineering</i> , 2019, 56, 120-129.	3.6	22
27	Multi-omic profiling of EPO-producing Chinese hamster ovary cell panel reveals metabolic adaptation to heterologous protein production. <i>Biotechnology and Bioengineering</i> , 2015, 112, 2373-2387.	1.7	20
28	Application of CRISPR/Cas9 Genome Editing to Improve Recombinant Protein Production in CHO Cells. <i>Methods in Molecular Biology</i> , 2017, 1603, 101-118.	0.4	20
29	A metabolic CRISPR-Cas9 screen in Chinese hamster ovary cells identifies glutamine-sensitive genes. <i>Metabolic Engineering</i> , 2021, 66, 114-122.	3.6	17
30	Using Titer and Titer Normalized to Confluence Are Complementary Strategies for Obtaining Chinese Hamster Ovary Cell Lines with High Volumetric Productivity of Etanercept. <i>Biotechnology Journal</i> , 2018, 13, e1700216.	1.8	16
31	Knockout of sialidase and pro-apoptotic genes in Chinese hamster ovary cells enables the production of recombinant human erythropoietin in fed-batch cultures. <i>Metabolic Engineering</i> , 2020, 57, 182-192.	3.6	16
32	Network reconstruction of the mouse secretory pathway applied on CHO cell transcriptome data. <i>BMC Systems Biology</i> , 2017, 11, 37.	3.0	14
33	An optimized genome-wide, virus-free CRISPR screen for mammalian cells. <i>Cell Reports Methods</i> , 2021, 1, 100062.	1.4	14
34	Toward genome-scale models of the Chinese hamster ovary cells: incentives, status and perspectives. <i>Pharmaceutical Bioprocessing</i> , 2014, 2, 437-448.	0.8	13
35	CRISPR/Cas9 as a Genome Editing Tool for Targeted Gene Integration in CHO Cells. <i>Methods in Molecular Biology</i> , 2019, 1961, 213-232.	0.4	12
36	A Chinese hamster transcription start site atlas that enables targeted editing of CHO cells. <i>NAR Genomics and Bioinformatics</i> , 2021, 3, lqab061.	1.5	7

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37	Case study on human Î±1â€antitrypsin: Recombinant protein titers obtained by commercial ELISA kits are inaccurate. <i>Biotechnology Journal</i> , 2016, 11, 1648-1656.	1.8	6
38	Endoplasmic reticulumâ€directed recombinant mRNA displays subcellular localization equal to endogenous mRNA during transient expression in CHO cells. <i>Biotechnology Journal</i> , 2016, 11, 1362-1367.	1.8	6
39	BCAT1 and BCAT2 disruption in CHO cells has cell line-dependent effects. <i>Journal of Biotechnology</i> , 2019, 306, 24-31.	1.9	5
40	A pooled CRISPR/AsCpf1 screen using paired gRNAs to induce genomic deletions in Chinese hamster ovary cells. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2021, 31, e00649.	2.1	5
41	Engineer Medium and Feed for Modulating N-Glycosylation of Recombinant Protein Production in CHO Cell Culture. <i>Methods in Molecular Biology</i> , 2017, 1603, 209-226.	0.4	3