

Jae-seong Jae Seong Lee

List of Publications by Citations

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41
papers

990
citations

17
h-index

31
g-index

45
ext. papers

1,278
ext. citations

5.9
avg, IF

4.43
L-index

#	Paper	IF	Citations
41	A Consensus Genome-scale Reconstruction of Chinese Hamster Ovary Cell Metabolism. <i>Cell Systems</i> , 2016 , 3, 434-443.e8	10.6	145
40	Site-specific integration in CHO cells mediated by CRISPR/Cas9 and homology-directed DNA repair pathway. <i>Scientific Reports</i> , 2015 , 5, 8572	4.9	127
39	One-step generation of triple knockout CHO cell lines using CRISPR/Cas9 and fluorescent enrichment. <i>Biotechnology Journal</i> , 2015 , 10, 1446-56	5.6	95
38	CRISPR/Cas9-mediated genome engineering of CHO cell factories: Application and perspectives. <i>Biotechnology Journal</i> , 2015 , 10, 979-94	5.6	82
37	Influence of co-down-regulation of caspase-3 and caspase-7 by siRNAs on sodium butyrate-induced apoptotic cell death of Chinese hamster ovary cells producing thrombopoietin. <i>Metabolic Engineering</i> , 2007 , 9, 452-64	9.7	60
36	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, 2518-23	4.9	40
35	Monitoring of autophagy in Chinese hamster ovary cells using flow cytometry. <i>Methods</i> , 2012 , 56, 375-82.6	4.6	38
34	Anti-cell death engineering of CHO cells: co-overexpression of Bcl-2 for apoptosis inhibition, Beclin-1 for autophagy induction. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 2195-207	4.9	31
33	Rapamycin treatment inhibits CHO cell death in a serum-free suspension culture by autophagy induction. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 3093-102	4.9	30
32	Autophagy and its implication in Chinese hamster ovary cell culture. <i>Biotechnology Letters</i> , 2013 , 35, 1753-63	3	28
31	Autophagy and apoptosis of recombinant Chinese hamster ovary cells during fed-batch culture: effect of nutrient supplementation. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 2182-92	4.9	28
30	Effect of sodium butyrate on autophagy and apoptosis in Chinese hamster ovary cells. <i>Biotechnology Progress</i> , 2012 , 28, 349-57	2.8	24
29	Reduced apoptosis in Chinese hamster ovary cells via optimized CRISPR interference. <i>Biotechnology and Bioengineering</i> , 2019 , 116, 1813-1819	4.9	23
28	Current state and perspectives on erythropoietin production. <i>Applied Microbiology and Biotechnology</i> , 2012 , 95, 1405-16	5.7	23
27	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	5.7	23
26	Minimizing Clonal Variation during Mammalian Cell Line Engineering for Improved Systems Biology Data Generation. <i>ACS Synthetic Biology</i> , 2018 , 7, 2148-2159	5.7	19
25	Mitigating Clonal Variation in Recombinant Mammalian Cell Lines. <i>Trends in Biotechnology</i> , 2019 , 37, 931-942	15.1	17

24	Awakening dormant glycosyltransferases in CHO cells with CRISPRa. <i>Biotechnology and Bioengineering</i> , 2020 , 117, 593-598	4.9	17
23	Application of CRISPR/Cas9 Genome Editing to Improve Recombinant Protein Production in CHO Cells. <i>Methods in Molecular Biology</i> , 2017 , 1603, 101-118	1.4	15
22	Differential induction of autophagy in caspase-3/7 down-regulating and Bcl-2 overexpressing recombinant CHO cells subjected to sodium butyrate treatment. <i>Journal of Biotechnology</i> , 2012 , 161, 34-41	3.7	15
21	Protein reference mapping of dihydrofolate reductase-deficient CHO DG44 cell lines using 2-dimensional electrophoresis. <i>Proteomics</i> , 2010 , 10, 2292-302	4.8	15
20	Modular 5cUTR hexamers for context-independent tuning of protein expression in eukaryotes. <i>Nucleic Acids Research</i> , 2018 , 46, e127	20.1	14
19	Chemical inhibition of autophagy: Examining its potential to increase the specific productivity of recombinant CHO cell lines. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 1953-61	4.9	13
18	Overexpression of PACEsol improves BMP-7 processing in recombinant CHO cells. <i>Journal of Biotechnology</i> , 2012 , 164, 336-9	3.7	12
17	Estimation of autophagy pathway genes for autophagy induction: Overexpression of Atg9A does not induce autophagy in recombinant Chinese hamster ovary cells. <i>Biochemical Engineering Journal</i> , 2012 , 68, 221-226	4.2	9
16	Comprehensive Analysis of Genomic Safe Harbors as Target Sites for Stable Expression of the Heterologous Gene in HEK293 Cells. <i>ACS Synthetic Biology</i> , 2020 , 9, 1263-1269	5.7	8
15	Optimized CRISPR/Cas9 strategy for homology-directed multiple targeted integration of transgenes in CHO cells. <i>Biotechnology and Bioengineering</i> , 2020 , 117, 1895-1903	4.9	6
14	CHO Cell Line Development and Engineering via Site-specific Integration: Challenges and Opportunities. <i>Biotechnology and Bioprocess Engineering</i> , 2020 , 25, 633-645	3.1	6
13	A metabolic CRISPR-Cas9 screen in Chinese hamster ovary cells identifies glutamine-sensitive genes. <i>Metabolic Engineering</i> , 2021 , 66, 114-122	9.7	6
12	Untangling the mechanism of 3-methyladenine in enhancing the specific productivity: Transcriptome analysis of recombinant Chinese hamster ovary cells treated with 3-methyladenine. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 2243-2254	4.9	6
11	CRISPR/Cas9 as a Genome Editing Tool for Targeted Gene Integration in CHO Cells. <i>Methods in Molecular Biology</i> , 2019 , 1961, 213-232	1.4	5
10	Platform Technology for Therapeutic Protein Production 2019 , 1-22		2
9	A metabolic CRISPR-Cas9 screen in Chinese hamster ovary cells identifies glutamine-sensitive genes		2
8	Endogenous p21-Dependent Transgene Control for CHO Cell Engineering. <i>ACS Synthetic Biology</i> , 2020 , 9, 1572-1580	5.7	1
7	Improving the secretory capacity of CHO producer cells: The effect of controlled Blimp1 expression, a master transcription factor for plasma cells. <i>Metabolic Engineering</i> , 2021 , 69, 73-86	9.7	1

- 6 Using targeted genome integration for virus-free genome-wide mammalian CRISPR screen 1
- 5 Hydroxyurea selection for enhancement of homology-directed targeted integration of transgenes in CHO cells. *New Biotechnology*, **2021**, 62, 26-31 6.4 1
- 4 An optimized genome-wide, virus-free CRISPR screen for mammalian cells.. *Cell Reports Methods*, **2021**, 1, 100062-100062 1
- 3 CRISPR Toolbox for Mammalian Cell Engineering **2019**, 185-206 0
- 2 Streamlined Human Cell-Based Recombinase-Mediated Cassette Exchange Platform Enables Multigene Expression for the Production of Therapeutic Proteins. *ACS Synthetic Biology*, **2021**, 10, 1715-1727 5.7 0
- 1 Next-Generation Cell Engineering Platform for Improving Recombinant Protein Production in Mammalian Cells. *Cell Engineering*, **2021**, 189-224 0