Gyun Min Lee

List of Publications by Year in Descending Order

155 papers	4,907 citations	38 h-index	63 g-index
160 ext. papers	5,474 ext. citations	5 avg, IF	5.88 L-index

#	Paper	IF	Citations
155	Small molecule epigenetic modulators for enhancing recombinant antibody production in CHO cell cultures.. *Biotechnology and Bioengineering*, **2021**,	4.9	1
154	Improving the secretory capacity of CHO producer cells: The effect of controlled Blimp1 expression, a master transcription factor for plasma cells. *Metabolic Engineering*, **2021**, 69, 73-86	9.7	1
153	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
152	A Chinese hamster transcription start site atlas that enables targeted editing of CHO cells. *NAR Genomics and Bioinformatics*, **2021**, 3, lqab061	3.7	1
151	A metabolic CRISPR-Cas9 screen in Chinese hamster ovary cells identifies glutamine-sensitive genes. *Metabolic Engineering*, **2021**, 66, 114-122	9.7	6
150	Amplification of EBNA-1 through a single-plasmid vector-based gene amplification system in HEK293 cells as an efficient transient gene expression system. *Applied Microbiology and Biotechnology*, **2021**, 105, 67-76	5.7	1
149	Comprehensive characterization of dihydrofolate reductase-mediated gene amplification for the establishment of recombinant human embryonic kidney 293 cells producing monoclonal antibodies. *Biotechnology Journal*, **2021**, 16, e2000351	5.6	3
148	Selective endocytosis of recombinant human BMPs through cell surface heparan sulfate proteoglycans in CHO cells: BMP-2 and BMP-7. *Scientific Reports*, **2021**, 11, 3378	4.9	4
147	An optimized genome-wide, virus-free CRISPR screen for mammalian cells.. *Cell Reports Methods*, **2021**, 1, 100062-100062		1
146	Blockage of undesirable endocytosis of recombinant human growth/differentiation factor-5 in Chinese hamster ovary cell cultures requires heparin analogs with specific chain lengths. *Biotechnology Journal*, **2021**, 16, e2100227	5.6	0
145	Factors affecting the quality of therapeutic proteins in recombinant Chinese hamster ovary cell culture. *Biotechnology Advances*, **2021**, 107831	17.8	5
144	Comprehensive Analysis of Genomic Safe Harbors as Target Sites for Stable Expression of the Heterologous Gene in HEK293 Cells. *ACS Synthetic Biology*, **2020**, 9, 1263-1269	5.7	8
143	Awakening dormant glycosyltransferases in CHO cells with CRISPRa. *Biotechnology and Bioengineering*, **2020**, 117, 593-598	4.9	17
142	Genome-scale reconstructions of the mammalian secretory pathway predict metabolic costs and limitations of protein secretion. *Nature Communications*, **2020**, 11, 68	17.4	37
141	Knockout of sialidase and pro-apoptotic genes in Chinese hamster ovary cells enables the production of recombinant human erythropoietin in fed-batch cultures. *Metabolic Engineering*, **2020**, 57, 182-192	9.7	13
140	Forskolin Increases cAMP Levels and Enhances Recombinant Antibody Production in CHO Cell Cultures. *Biotechnology Journal*, **2020**, 15, 2000264	5.6	2
139	Multicopy Targeted Integration for Accelerated Development of High-Producing Chinese Hamster Ovary Cells. *ACS Synthetic Biology*, **2020**, 9, 2546-2561	5.7	12

138	Multiplex secretome engineering enhances recombinant protein production and purity. *Nature Communications*, **2020**, 11, 1908	17.4	26
137	BiP Inducer X: An ER Stress Inhibitor for Enhancing Recombinant Antibody Production in CHO Cell Culture. *Biotechnology Journal*, **2019**, 14, e1900130	5.6	10
136	Reduced apoptosis in Chinese hamster ovary cells via optimized CRISPR interference. *Biotechnology and Bioengineering*, **2019**, 116, 1813-1819	4.9	23
135	Mitigating Clonal Variation in Recombinant Mammalian Cell Lines. *Trends in Biotechnology*, **2019**, 37, 931-942	15.1	17
134	Systematic Evaluation of Site-Specific Recombinant Gene Expression for Programmable Mammalian Cell Engineering. *ACS Synthetic Biology*, **2019**, 8, 758-774	5.7	13
133	Cell Line Development for Therapeutic Protein Production **2019**, 23-47		3
132	CHO Cell Engineering for Improved Process Performance and Product Quality **2019**, 207-250		2
131	Improving recombinant bone morphogenetic protein-4 (BMP-4) production by autoregulatory feedback loop removal using BMP receptor-knockout CHO cell lines. *Metabolic Engineering*, **2019**, 52, 57-67	9.7	10
130	Analysis of Golgi pH in Chinese hamster ovary cells using ratiometric pH-sensitive fluorescent proteins. *Biotechnology and Bioengineering*, **2019**, 116, 1006-1016	4.9	10
129	Glyco-engineered CHO cell lines producing alpha-1-antitrypsin and C1 esterase inhibitor with fully humanized N-glycosylation profiles. *Metabolic Engineering*, **2019**, 52, 143-152	9.7	29
128	Co-amplification of EBNA-1 and PyLT through dhfr-mediated gene amplification for improving foreign protein production in transient gene expression in CHO cells. *Applied Microbiology and Biotechnology*, **2018**, 102, 4729-4739	5.7	4
127	Glutamine synthetase gene knockout-human embryonic kidney 293E cells for stable production of monoclonal antibodies. *Biotechnology and Bioengineering*, **2018**, 115, 1367-1372	4.9	10
126	Using Titer and Titer Normalized to Confluence Are Complementary Strategies for Obtaining Chinese Hamster Ovary Cell Lines with High Volumetric Productivity of Etanercept. *Biotechnology Journal*, **2018**, 13, e1700216	5.6	10
125	Comprehensive characterization of glutamine synthetase-mediated selection for the establishment of recombinant CHO cells producing monoclonal antibodies. *Scientific Reports*, **2018**, 8, 5361	4.9	35
124	Simple and Robust N-Glycan Analysis Based on Improved 2-Aminobenzoic Acid Labeling for Recombinant Therapeutic Glycoproteins. *Journal of Pharmaceutical Sciences*, **2018**, 107, 1831-1841	3.9	9
123	Comprehensive Physicochemical and Biological Characterization of the Proposed Biosimilar Darbepoetin Alfa, LBDE, and Its Originator Darbepoetin Alfa, NESP. *BioDrugs*, **2018**, 32, 153-168	7.9	3
122	Minimizing Clonal Variation during Mammalian Cell Line Engineering for Improved Systems Biology Data Generation. *ACS Synthetic Biology*, **2018**, 7, 2148-2159	5.7	19
121	Improving the production of recombinant human bone morphogenetic protein-4 in Chinese hamster ovary cell cultures by inhibition of undesirable endocytosis. *Biotechnology and Bioengineering*, **2018**, 115, 2565-2575	4.9	10

120	Differential expression of microRNAs in recombinant Chinese hamster ovary cells treated with sodium butyrate using digital RNA counting. *Journal of Biotechnology*, **2018**, 283, 37-42	3.7	5
119	Baicalein Reduces Oxidative Stress in CHO Cell Cultures and Improves Recombinant Antibody Productivity. *Biotechnology Journal*, **2018**, 13, e1700425	5.6	20
118	Revealing Key Determinants of Clonal Variation in Transgene Expression in Recombinant CHO Cells Using Targeted Genome Editing. *ACS Synthetic Biology*, **2018**, 7, 2867-2878	5.7	23
117	Untangling the mechanism of 3-methyladenine in enhancing the specific productivity: Transcriptome analysis of recombinant Chinese hamster ovary cells treated with 3-methyladenine. *Biotechnology and Bioengineering*, **2018**, 115, 2243-2254	4.9	6
116	Ribosome profiling-guided depletion of an mRNA increases cell growth rate and protein secretion. *Scientific Reports*, **2017**, 7, 40388	4.9	39
115	Investigation of relationship between EBNA-1 expression level and specific foreign protein productivity in transient gene expression of HEK293 cells. *Process Biochemistry*, **2017**, 55, 182-186	4.8	7
114	Understanding of decreased sialylation of Fc-fusion protein in hyperosmotic recombinant Chinese hamster ovary cell culture: N-glycosylation gene expression and N-linked glycan antennary profile. *Biotechnology and Bioengineering*, **2017**, 114, 1721-1732	4.9	18
113	Anti-Apoptosis Engineering for Improved Protein Production from CHO Cells. *Methods in Molecular Biology*, **2017**, 1603, 71-85	1.4	13
112	Proteomic analysis of host cell protein dynamics in the supernatant of Fc-fusion protein-producing CHO DG44 and DUKX-B11 cell lines in batch and fed-batch cultures. *Biotechnology and Bioengineering*, **2017**, 114, 2267-2278	4.9	17
111	Proteomic Analysis of Host Cell Protein Dynamics in the Culture Supernatants of Antibody-Producing CHO Cells. *Scientific Reports*, **2017**, 7, 44246	4.9	29
110	Improving the secretory capacity of Chinese hamster ovary cells by ectopic expression of effector genes: Lessons learned and future directions. *Biotechnology Advances*, **2017**, 35, 64-76	17.8	42
109	Reduction of ammonia and lactate through the coupling of glutamine synthetase selection and downregulation of lactate dehydrogenase-A in CHO cells. *Applied Microbiology and Biotechnology*, **2017**, 101, 1035-1045	5.7	20
108	Heparan sulfate proteoglycan synthesis in CHO DG44 and HEK293 cells. *Biotechnology and Bioprocess Engineering*, **2016**, 21, 439-445	3.1	9
107	Combinatorial treatment with lithium chloride enhances recombinant antibody production in transiently transfected CHO and HEK293E cells. *Biotechnology and Bioprocess Engineering*, **2016**, 21, 667-675	3.1	3
106	Valeric acid induces cell cycle arrest at G1 phase in CHO cell cultures and improves recombinant antibody productivity. *Biotechnology Journal*, **2016**, 11, 487-96	5.6	48
105	Alleviation of proteolytic degradation of recombinant human bone morphogenetic protein-4 by repeated batch culture of Chinese hamster ovary cells. *Process Biochemistry*, **2016**, 51, 1078-1084	4.8	7
104	Accelerated homology-directed targeted integration of transgenes in Chinese hamster ovary cells via CRISPR/Cas9 and fluorescent enrichment. *Biotechnology and Bioengineering*, **2016**, 113, 2518-23	4.9	40
103	The molecular weight and concentration of dextran sulfate affect cell growth and antibody production in CHO cell cultures. *Biotechnology Progress*, **2016**, 32, 1113-1122	2.8	23

102	Chemical inhibition of autophagy: Examining its potential to increase the specific productivity of recombinant CHO cell lines. *Biotechnology and Bioengineering*, **2016**, 113, 1953-61	4.9	13
101	Limitations to the development of recombinant human embryonic kidney 293E cells using glutamine synthetase-mediated gene amplification: Methionine sulfoximine resistance. *Journal of Biotechnology*, **2016**, 231, 136-140	3.7	12
100	Purification of TNFR-Fc produced in recombinant CHO cells: Characterization of product-related impurities. *Process Biochemistry*, **2015**, 50, 1313-1317	4.8	3
99	One-step generation of triple knockout CHO cell lines using CRISPR/Cas9 and fluorescent enrichment. *Biotechnology Journal*, **2015**, 10, 1446-56	5.6	95
98	Characterization and expression of proprotein convertases in CHO cells: Efficient proteolytic maturation of human bone morphogenetic protein-7. *Biotechnology and Bioengineering*, **2015**, 112, 560-8	4.9	8
97	Versatile microscale screening platform for improving recombinant protein productivity in Chinese hamster ovary cells. *Scientific Reports*, **2015**, 5, 18016	4.9	19
96	Understanding of altered N-glycosylation-related gene expression in recombinant Chinese hamster ovary cells subjected to elevated ammonium concentration by digital mRNA counting. *Biotechnology and Bioengineering*, **2015**, 112, 1583-93	4.9	24
95	Effect of Bcl-xL overexpression on sialylation of Fc-fusion protein in recombinant Chinese hamster ovary cell cultures. *Biotechnology Progress*, **2015**, 31, 1133-6	2.8	12
94	Cell Engineering for Therapeutic Protein Production. *Cell Engineering*, **2015**, 565-590		3
93	Digital mRNA profiling of N-glycosylation gene expression in recombinant Chinese hamster ovary cells treated with sodium butyrate. *Journal of Biotechnology*, **2014**, 171, 56-60	3.7	19
92	Effect of sodium butyrate on the assembly, charge variants, and galactosylation of antibody produced in recombinant Chinese hamster ovary cells. *Applied Microbiology and Biotechnology*, **2014**, 98, 5417-25	5.7	30
91	Effect of glutamine substitution by TCA cycle intermediates on the production and sialylation of Fc-fusion protein in Chinese hamster ovary cell culture. *Journal of Biotechnology*, **2014**, 180, 23-9	3.7	32
90	Effect of lithium chloride on the production and sialylation of Fc-fusion protein in Chinese hamster ovary cell culture. *Applied Microbiology and Biotechnology*, **2014**, 98, 9239-48	5.7	24
89	Gadd45-induced cell cycle G2/M arrest for improved transient gene expression in Chinese hamster ovary cells. *Biotechnology and Bioprocess Engineering*, **2014**, 19, 386-393	3.1	5
88	Effect of glucose feeding on the glycosylation quality of antibody produced by a human cell line, F2N78, in fed-batch culture. *Applied Microbiology and Biotechnology*, **2014**, 98, 3509-15	5.7	16
87	Autophagy and its implication in Chinese hamster ovary cell culture. *Biotechnology Letters*, **2013**, 35, 1753-63	3	28
86	Bcl-2 overexpression in CHO cells improves polyethylenimine-mediated gene transfection. *Process Biochemistry*, **2013**, 48, 1436-1440	4.8	6
85	Development of recombinant Chinese hamster ovary cell lines for therapeutic protein production. *Current Opinion in Chemical Engineering*, **2013**, 2, 391-397	5.4	45

84	Effect of culture pH on recombinant antibody production by a new human cell line, F2N78, grown in suspension at 33.0 ℃ and 37.0 ℃. *Applied Microbiology and Biotechnology*, **2013**, 97, 5283-91	5.7	20
83	Anti-cell death engineering of CHO cells: co-overexpression of Bcl-2 for apoptosis inhibition, Beclin-1 for autophagy induction. *Biotechnology and Bioengineering*, **2013**, 110, 2195-207	4.9	31
82	Effect of Bcl-x(L) overexpression on lactate metabolism in chinese hamster ovary cells producing antibody. *Biotechnology Progress*, **2013**, 29, 1594-8	2.8	1
81	CHO cells in biotechnology for production of recombinant proteins: current state and further potential. *Applied Microbiology and Biotechnology*, **2012**, 93, 917-30	5.7	496
80	Development of apoptosis-resistant CHO cell line expressing PyLT for the enhancement of transient antibody production. *Process Biochemistry*, **2012**, 47, 2557-2561	4.8	6
79	Differential induction of autophagy in caspase-3/7 down-regulating and Bcl-2 overexpressing recombinant CHO cells subjected to sodium butyrate treatment. *Journal of Biotechnology*, **2012**, 161, 34-41	3.7	15
78	Monitoring of autophagy in Chinese hamster ovary cells using flow cytometry. *Methods*, **2012**, 56, 375-82	4.6	38
77	Current state and perspectives on erythropoietin production. *Applied Microbiology and Biotechnology*, **2012**, 95, 1405-16	5.7	23
76	Estimation of autophagy pathway genes for autophagy induction: Overexpression of Atg9A does not induce autophagy in recombinant Chinese hamster ovary cells. *Biochemical Engineering Journal*, **2012**, 68, 221-226	4.2	9
75	Differential in-gel electrophoresis (DIGE) analysis of CHO cells under hyperosmotic pressure: osmoprotective effect of glycine betaine addition. *Biotechnology and Bioengineering*, **2012**, 109, 1395-403	4.9	11
74	Rapamycin treatment inhibits CHO cell death in a serum-free suspension culture by autophagy induction. *Biotechnology and Bioengineering*, **2012**, 109, 3093-102	4.9	30
73	Effect of sodium butyrate on autophagy and apoptosis in Chinese hamster ovary cells. *Biotechnology Progress*, **2012**, 28, 349-57	2.8	24
72	A role of GADD153 in ER stress-induced apoptosis in recombinant Chinese hamster ovary cells. *Biotechnology and Bioprocess Engineering*, **2012**, 17, 446-455	3.1	3
71	Overexpression of PACEsol improves BMP-7 processing in recombinant CHO cells. *Journal of Biotechnology*, **2012**, 164, 336-9	3.7	12
70	Bcl-x(L) overexpression delays the onset of autophagy and apoptosis in hyperosmotic recombinant Chinese hamster ovary cell cultures. *Journal of Biotechnology*, **2011**, 156, 52-5	3.7	13
69	Effect of Bcl-xL overexpression on erythropoietin production in recombinant Chinese hamster ovary cells treated with dimethyl sulfoxide. *Process Biochemistry*, **2011**, 46, 2201-2204	4.8	3
68	Proteomic understanding of intracellular responses of recombinant Chinese hamster ovary cells cultivated in serum-free medium supplemented with hydrolysates. *Applied Microbiology and Biotechnology*, **2011**, 89, 1917-28	5.7	23
67	Effects of culture temperature and pH on flag-tagged COMP angiopoietin-1 (FCA1) production from recombinant CHO cells: FCA1 aggregation. *Applied Microbiology and Biotechnology*, **2011**, 91, 305-15	5.7	19

66	Combinatorial engineering of ldh-a and bcl-2 for reducing lactate production and improving cell growth in dihydrofolate reductase-deficient Chinese hamster ovary cells. *Applied Microbiology and Biotechnology*, **2011**, 92, 779-90	5.7	31
65	Effect of constitutively active Ras overexpression on cell growth in recombinant Chinese hamster ovary cells. *Biotechnology Progress*, **2011**, 27, 577-80	2.8	3
64	Proteomic understanding of intracellular responses of recombinant chinese hamster ovary cells adapted to grow in serum-free suspension culture. *Biotechnology Progress*, **2011**, 27, 1680-1688	2.8	9
63	Autophagy and apoptosis of recombinant Chinese hamster ovary cells during fed-batch culture: effect of nutrient supplementation. *Biotechnology and Bioengineering*, **2011**, 108, 2182-92	4.9	28
62	A proteomic approach for identifying cellular proteins interacting with erythropoietin in recombinant Chinese hamster ovary cells. *Biotechnology Progress*, **2010**, 26, 246-51	2.8	5
61	A DIGE approach for the assessment of differential expression of the CHO proteome under sodium butyrate addition: Effect of Bcl-x(L) overexpression. *Biotechnology and Bioengineering*, **2010**, 105, 358-67	4.9	24
60	Hyperosmotic stress induces autophagy and apoptosis in recombinant Chinese hamster ovary cell culture. *Biotechnology and Bioengineering*, **2010**, 105, 1187-92	4.9	51
59	Effect of inducible co-overexpression of protein disulfide isomerase and endoplasmic reticulum oxidoreductase on the specific antibody productivity of recombinant Chinese hamster ovary cells. *Biotechnology and Bioengineering*, **2010**, 107, 337-46	4.9	32
58	Protein reference mapping of dihydrofolate reductase-deficient CHO DG44 cell lines using 2-dimensional electrophoresis. *Proteomics*, **2010**, 10, 2292-302	4.8	15
57	Effect of Bcl-xL overexpression on apoptosis and autophagy in recombinant Chinese hamster ovary cells under nutrient-deprived condition. *Biotechnology and Bioengineering*, **2009**, 103, 757-66	4.9	48
56	Enhanced interferon-beta production by CHO cells through elevated osmolality and reduced culture temperature. *Biotechnology Progress*, **2009**, 25, 1440-7	2.8	29
55	Bcl-xL overexpression does not enhance specific erythropoietin productivity of recombinant CHO cells grown at 33 degrees C and 37 degrees C. *Biotechnology Progress*, **2009**, 25, 252-6	2.8	18
54	Calnexin overexpression sensitizes recombinant CHO cells to apoptosis induced by sodium butyrate treatment. *Cell Stress and Chaperones*, **2009**, 14, 49-60	4	10
53	Enhancement of recombinant antibody production in HEK 293E cells by WPRE. *Biotechnology and Bioprocess Engineering*, **2009**, 14, 633-638	3.1	9
52	Development of serum-free medium supplemented with hydrolysates for the production of therapeutic antibodies in CHO cell cultures using design of experiments. *Applied Microbiology and Biotechnology*, **2009**, 83, 639-48	5.7	55
51	Effect of Akt overexpression on programmed cell death in antibody-producing Chinese hamster ovary cells. *Journal of Biotechnology*, **2009**, 139, 89-94	3.7	38
50	Effect of Ca2+ and Mg2+ concentration in culture medium on the activation of recombinant factor IX produced in Chinese hamster ovary cells. *Journal of Biotechnology*, **2009**, 142, 275-8	3.7	11
49	Use of NaCl prevents aggregation of recombinant COMP-angiopoietin-1 in Chinese hamster ovary cells. *Journal of Biotechnology*, **2009**, 143, 145-50	3.7	18

48	Effect of XIAP overexpression on sodium butyrate-induced apoptosis in recombinant Chinese hamster ovary cells producing erythropoietin. *Journal of Biotechnology*, **2009**, 144, 299-303	3.7	21
47	Limitations to the comparative proteomic analysis of thrombopoietin producing Chinese hamster ovary cells treated with sodium butyrate. *Journal of Biotechnology*, **2008**, 133, 461-8	3.7	31
46	Autophagy and apoptosis in Chinese hamster ovary cell culture. *Autophagy*, **2008**, 4, 70-2	10.2	16
45	High-level expression and purification of a designed angiopoietin-1 chimeric protein, COMP-Ang1, produced in Chinese hamster ovary cells. *Protein Journal*, **2008**, 27, 319-26	3.9	16
44	Characterization of site-specific recombination mediated by Cre recombinase during the development of erythropoietin producing CHO cell lines. *Biotechnology and Bioprocess Engineering*, **2008**, 13, 418-423	3.1	9
43	Nutrient deprivation induces autophagy as well as apoptosis in Chinese hamster ovary cell culture. *Biotechnology and Bioengineering*, **2008**, 99, 678-85	4.9	89
42	Assessment of cell engineering strategies for improved therapeutic protein production in CHO cells. *Biotechnology Journal*, **2008**, 3, 624-30	5.6	75
41	Use of Flp-mediated cassette exchange in the development of a CHO cell line stably producing erythropoietin. *Journal of Microbiology and Biotechnology*, **2008**, 18, 1342-51	3.3	13
40	Effect of doxycycline-regulated protein disulfide isomerase expression on the specific productivity of recombinant CHO cells: thrombopoietin and antibody. *Biotechnology and Bioengineering*, **2007**, 98, 611-5	4.9	63
39	Down-regulation of cold-inducible RNA-binding protein does not improve hypothermic growth of Chinese hamster ovary cells producing erythropoietin. *Metabolic Engineering*, **2007**, 9, 208-16	9.7	17
38	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. *Metabolic Engineering*, **2007**, 9, 452-64	9.7	60
37	Down-regulation of lactate dehydrogenase-A by siRNAs for reduced lactic acid formation of Chinese hamster ovary cells producing thrombopoietin. *Applied Microbiology and Biotechnology*, **2007**, 74, 152-9	5.7	111
36	Functional expression of human pyruvate carboxylase for reduced lactic acid formation of Chinese hamster ovary cells (DG44). *Applied Microbiology and Biotechnology*, **2007**, 76, 659-65	5.7	51
35	Expression and purification of recombinant human angiopoietin-1 produced in Chinese hamster ovary cells. *In Vitro Cellular and Developmental Biology - Animal*, **2007**, 43, 162-7	2.6	4
34	A simple analysis system for the estimation of recombination efficiency using fluorescence-activated cell sorting. *Journal of Biotechnology*, **2007**, 127, 373-84	3.7	5
33	Initial transcriptome and proteome analyses of low culture temperature-induced expression in CHO cells producing erythropoietin. *Biotechnology and Bioengineering*, **2006**, 93, 361-71	4.9	122
32	Adaptation of Chinese hamster ovary cells to low culture temperature: cell growth and recombinant protein production. *Journal of Biotechnology*, **2006**, 122, 463-72	3.7	53
31	Limitations to the development of humanized antibody producing Chinese hamster ovary cells using glutamine synthetase-mediated gene amplification. *Biotechnology Progress*, **2006**, 22, 770-80	2.8	48

30	Biphasic culture strategy for enhancing volumetric erythropoietin productivity of Chinese hamster ovary cells. *Enzyme and Microbial Technology*, **2006**, 39, 362-365	3.8	23
29	Enhanced human thrombopoietin production by sodium butyrate addition to serum-free suspension culture of bcl-2-overexpressing CHO cells. *Biotechnology Progress*, **2005**, 21, 50-7	2.8	41
28	Expression and purification of recombinant human angiopoietin-2 produced in Chinese hamster ovary cells. *Protein Expression and Purification*, **2005**, 39, 175-83	2	15
27	Selection strategies for the establishment of recombinant Chinese hamster ovary cell line with dihydrofolate reductase-mediated gene amplification. *Applied Microbiology and Biotechnology*, **2005**, 69, 162-9	5.7	31
26	Effect of culture pH on erythropoietin production by Chinese hamster ovary cells grown in suspension at 32.5 and 37.0 degrees C. *Biotechnology and Bioengineering*, **2005**, 89, 345-56	4.9	110
25	Effect of simultaneous application of stressful culture conditions on specific productivity and heterogeneity of erythropoietin in Chinese hamster ovary cells. *Biotechnology Progress*, **2004**, 20, 1293-6	2.8	29
24	Enhancing effect of low culture temperature on specific antibody productivity of recombinant Chinese hamster ovary cells: clonal variation. *Biotechnology Progress*, **2004**, 20, 1683-8	2.8	70
23	Effect of doxycycline-regulated calnexin and calreticulin expression on specific thrombopoietin productivity of recombinant Chinese hamster ovary cells. *Biotechnology and Bioengineering*, **2004**, 85, 539-46	4.9	66
22	Effect of sodium butyrate on the production, heterogeneity and biological activity of human thrombopoietin by recombinant Chinese hamster ovary cells. *Journal of Biotechnology*, **2004**, 112, 323-35	3.7	78
21	Effect of low culture temperature on specific productivity, transcription level, and heterogeneity of erythropoietin in Chinese hamster ovary cells. *Biotechnology and Bioengineering*, **2003**, 82, 289-98	4.9	210
20	Development of apoptosis-resistant dihydrofolate reductase-deficient Chinese hamster ovary cell line. *Biotechnology and Bioengineering*, **2003**, 82, 872-6	4.9	31
19	Effect of doxycycline-regulated ERp57 expression on specific thrombopoietin productivity of recombinant CHO cells. *Biotechnology Progress*, **2003**, 19, 179-84	2.8	34
18	Proteome analysis of antibody-expressing CHO cells in response to hyperosmotic pressure. *Biotechnology Progress*, **2003**, 19, 1734-41	2.8	57
17	Inhibition of sodium butyrate-induced apoptosis in recombinant Chinese hamster ovary cells by constitutively expressing antisense RNA of caspase-3. *Biotechnology and Bioengineering*, **2002**, 78, 217-28	4.9	80
16	Response of recombinant Chinese hamster ovary cells to hyperosmotic pressure: effect of Bcl-2 overexpression. *Journal of Biotechnology*, **2002**, 95, 237-48	3.7	93
15	Key determinants in the occurrence of clonal variation in humanized antibody expression of cho cells during dihydrofolate reductase mediated gene amplification. *Biotechnology Progress*, **2001**, 17, 69-75	2.8	46
14	Effects of cloned gene dosage on the response of recombinant CHO cells to hyperosmotic pressure in regard to cell growth and antibody production. *Biotechnology Progress*, **2001**, 17, 993-9	2.8	28
13	Hyperosmotic pressure enhances immunoglobulin transcription rates and secretion rates of KR12H-2 transfectoma. *Biotechnology and Bioengineering*, **2000**, 68, 260-8	4.9	40

12	Overexpression of bcl-2 inhibits sodium butyrate-induced apoptosis in Chinese hamster ovary cells resulting in enhanced humanized antibody production. *Biotechnology and Bioengineering*, **2000**, 71, 184-93	4.9	108
11	Osmoprotective effect of glycine betaine on foreign protein production in hyperosmotic recombinant chinese hamster ovary cell cultures differs among cell lines. *Biotechnology and Bioengineering*, **2000**, 70, 167-75	4.9	60
10	Characterization of chimeric antibody producing CHO cells in the course of dihydrofolate reductase-mediated gene amplification and their stability in the absence of selective pressure. *Biotechnology and Bioengineering*, **1998**, 58, 73-84	4.9	163
9	Clonal variability within dihydrofolate reductase-mediated gene amplified Chinese hamster ovary cells: Stability in the absence of selective pressure. *Biotechnology and Bioengineering*, **1998**, 60, 679-688	4.9	119
8	Observations consistent with autocrine stimulation of hybridoma cell growth and implications for large-scale antibody production. *Biotechnology Letters*, **1992**, 14, 257-262	3	13
7	Application of population balance model to the loss of hybridoma antibody productivity. *Biotechnology Progress*, **1991**, 7, 72-5	2.8	36
6	Production of monoclonal antibody using free-suspended and immobilized hybridoma cells: Effect of serum. *Biotechnology and Bioengineering*, **1991**, 38, 821-30	4.9	75
5	Immobilization can improve the stability of hybridoma antibody productivity in serum-free media. *Biotechnology and Bioengineering*, **1990**, 36, 1049-55	4.9	74
4	Effect of mechanical agitation on hybridoma cell growth. *Biotechnology Letters*, **1988**, 10, 625-628	3	34
3	Effect of anchorage dependency on growth rate and monoclonal antibody production of hybridoma cells. *Biotechnology Letters*, **1988**, 10, 307-312	3	5
2	Using targeted genome integration for virus-free genome-wide mammalian CRISPR screen		1
1	Multiplex secretome engineering enhances recombinant protein production and purity		3