Thomas Noll

List of Publications by Year
in descending order

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80	2,517	236925	206112
papers	citations	25 h-index	48 g-index

83	83	83	3101
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The mucin MUC1 modulates the tumor immunological microenvironment through engagement of the lectin Siglec-9. Nature Immunology, 2016, 17, 1273-1281.	14.5	277
2	Systematic Screening of All Signal Peptides from Bacillus subtilis: A Powerful Strategy in Optimizing Heterologous Protein Secretion in Gram-positive Bacteria. Journal of Molecular Biology, 2006, 362, 393-402.	4.2	228
3	The ST6GalNAc-I Sialyltransferase Localizes throughout the Golgi and Is Responsible for the Synthesis of the Tumor-associated Sialyl-Tn O-Glycan in Human Breast Cancer. Journal of Biological Chemistry, 2006, 281, 3586-3594.	3.4	210
4	Chinese hamster genome sequenced from sorted chromosomes. Nature Biotechnology, 2013, 31, 694-695.	17.5	160
5	Adult Palatum as a Novel Source of Neural Crest-Related Stem Cells. Stem Cells, 2009, 27, 1899-1910.	3.2	141
6	Unraveling the Chinese hamster ovary cell line transcriptome by next-generation sequencing. Journal of Biotechnology, 2011, 156, 227-235.	3.8	96
7	Quantitative characterization of metabolism and metabolic shifts during growth of the new human cell line AGE1.HN using time resolved metabolic flux analysis. Bioprocess and Biosystems Engineering, 2011, 34, 533-545.	3.4	89
8	Recombinant MUC1 mucin with a breast cancer-like O-glycosylation produced in large amounts in Chinese-hamster ovary cells. Biochemical Journal, 2003, 376, 677-686.	3.7	83
9	Recombinant Tumor-Associated MUC1 Glycoprotein Impairs the Differentiation and Function of Dendritic Cells. Journal of Immunology, 2005, 174, 7764-7772.	0.8	82
10	Dielectric spectroscopy in the cultivation of suspended and immobilized hybridoma cells. Journal of Biotechnology, 1998, 63, 187-198.	3.8	64
11	Bioprocess development for the production of a recombinant MUC1 fusion protein expressed by CHO-K1 cells in protein-free medium. Journal of Biotechnology, 2004, 110, 51-62.	3.8	60
12	Methods in mammalian cell line engineering: from random mutagenesis to sequence-specific approaches. Applied Microbiology and Biotechnology, 2010, 88, 425-436.	3.6	59
13	Construction of a Public CHO Cell Line Transcript Database Using Versatile Bioinformatics Analysis Pipelines. PLoS ONE, 2014, 9, e85568.	2.5	57
14	Effects of high passage cultivation on CHO cells: a global analysis. Applied Microbiology and Biotechnology, 2012, 94, 659-671.	3.6	52
15	Engineered and Natural Promoters and Chromatinâ€Modifying Elements for Recombinant Protein Expression in CHO Cells. Biotechnology Journal, 2018, 13, e1700232.	3.5	52
16	How can measurement, monitoring, modeling and control advance cell culture in industrial biotechnology?. Biotechnology Journal, 2012, 7, 1522-1529.	3.5	49
17	Computational identification of microRNA gene loci and precursor microRNA sequences in CHO cell lines. Journal of Biotechnology, 2012, 158, 151-155.	3.8	46
18	Utilization and evaluation of CHOâ€specific sequence databases for mass spectrometry based proteomics. Biotechnology and Bioengineering, 2012, 109, 1386-1394.	3.3	46

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19	Cancer-associated hypersialylated MUC1 drives the differentiation of human monocytes into macrophages with a pathogenic phenotype. Communications Biology, 2020, 3, 644.	4.4	36
20	Localization of O-glycans in MUC1 glycoproteins using electron-capture dissociation fragmentation mass spectrometry. Glycobiology, 2009, 19, 375-381.	2.5	35
21	Evaluation of criteria for bioreactor comparison and operation standardization for mammalian cell culture. Engineering in Life Sciences, 2012, 12, 518-528.	3.6	32
22	The DNA methylation landscape of Chinese hamster ovary (CHO) DP-12 cells. Journal of Biotechnology, 2015, 199, 38-46.	3.8	32
23	Fast filtration for metabolome sampling of suspended animal cells. Biotechnology Letters, 2011, 33, 495-502.	2.2	29
24	Assessment of mixture toxicity of (tri)azoles and their hepatotoxic effects in vitro by means of omics technologies. Archives of Toxicology, 2019, 93, 2321-2333.	4.2	28
25	Valeric acid supplementation combined to mild hypothermia increases productivity in CHO cell cultivations. Biochemical Engineering Journal, 2016, 114, 101-109.	3.6	26
26	Establishment of a CpG island microarray for analyses of genome-wide DNA methylation in Chinese hamster ovary cells. Applied Microbiology and Biotechnology, 2014, 98, 579-589.	3.6	25
27	Heterogeneity Studies of Mammalian Cells for Bioproduction: From Tools to Application. Trends in Biotechnology, 2019, 37, 645-660.	9.3	24
28	Application of an Inclined Settler for Cell Culture-Based Influenza A Virus Production in Perfusion Mode. Frontiers in Bioengineering and Biotechnology, 2020, 8, 672.	4.1	23
29	Breast carcinoma cell lysate-pulsed dendritic cells cross-prime MUC1-specific CD8+ T cells identified by peptide-MHC-class-I tetramers. Cellular Immunology, 2004, 231, 112-125.	3.0	22
30	Integrative analysis of DNA methylation and gene expression in butyrate-treated CHO cells. Journal of Biotechnology, 2017, 257, 150-161.	3.8	22
31	Exploring the molecular content of CHO exosomes during bioprocessing. Applied Microbiology and Biotechnology, 2021, 105, 3673-3689.	3.6	21
32	Apoptosis of monocytes and the influence on yield of monocyte-derived dendritic cells. Journal of Immunological Methods, 2004, 294, 67-80.	1.4	19
33	Hsc70 Is a Novel Interactor of NF-kappaB p65 in Living Hippocampal Neurons. PLoS ONE, 2013, 8, e65280.	2.5	18
34	Development and application of a cultivation platform for mammalian suspension cell lines with singleâ€cell resolution. Biotechnology and Bioengineering, 2021, 118, 992-1005.	3.3	18
35	Influence of culture conditions on recombinant Drosophila melanogaster S2 cells producing rabies virus glycoprotein cultivated in serum-free medium. Biologicals, 2009, 37, 108-118.	1.4	16
36	Transcriptome analyses of CHO cells with the next-generation microarray CHO41K: Development and validation by analysing the influence of the growth stimulating substance IGF-1 substitute LongR3. Journal of Biotechnology, 2014, 178, 23-31.	3.8	14

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37	Nanopore Sequencing Reveals Global Transcriptome Signatures of Mitochondrial and Ribosomal Gene Expressions in Various Human Cancer Stem-like Cell Populations. Cancers, 2021, 13, 1136.	3.7	14
38	Clonal variations in CHO IGF signaling investigated by SILAC-based phosphoproteomics and LFQ-MS. Applied Microbiology and Biotechnology, 2019, 103, 8127-8143.	3.6	13
39	Immobilisation of bovine enterokinase and application of the immobilised enzyme in fusion protein cleavage. Bioprocess and Biosystems Engineering, 2008, 31, 173-182.	3.4	12
40	2D-DIGE screening of high-productive CHO cells under glucose limitationâ€"Basic changes in the proteome equipment and hints for epigenetic effects. Journal of Biotechnology, 2015, 201, 86-97.	3.8	12
41	Identification and evaluation of cell- growth-inhibiting bDtBPP-analogue degradation products from phosphite antioxidants used in polyolefin bioprocessing materials. Analytical and Bioanalytical Chemistry, 2020, 412, 4505-4518.	3.7	12
42	Next-generation sequencing of the CHO cell transcriptome. BMC Proceedings, 2011, 5, P6.	1.6	11
43	Hyperosmolality in CHO culture: Effects on cellular behavior and morphology. Biotechnology and Bioengineering, 2021, 118, 2348-2359.	3.3	11
44	Bioreactor cultivation of CHO DP-12 cells under sodium butyrate treatment â€“ comparative transcriptome analysis with CHO cDNA microarrays. BMC Proceedings, 2011, 5, P98.	1.6	9
45	Evaluation of sulfatase-directed quinone methide traps for proteomics. Bioorganic and Medicinal Chemistry, 2012, 20, 622-627.	3.0	9
46	Discovery of transcription start sites in the Chinese hamster genome by next-generation RNA sequencing. Journal of Biotechnology, 2014, 190, 64-75.	3.8	9
47	Effect of manufacturing temperature and storage duration on stability of chemically defined media measured with LCâ€MS/MS. Journal of Chemical Technology and Biotechnology, 2019, 94, 1144-1155.	3.2	9
48	The influence of cell growth and enzyme activity changes on intracellular metabolite dynamics in AGE1.HN.AAT cells. Journal of Biotechnology, 2014, 178, 43-53.	3.8	8
49	Label-free protein quantification of sodium butyrate treated CHO cells by ESI-UHR-TOF-MS. Journal of Biotechnology, 2017, 257, 87-98.	3.8	8
50	DNA methylation in CHO cells. Journal of Biotechnology, 2017, 258, 206-210.	3.8	8
51	Perfusion process combining low temperature and valeric acid for enhanced recombinant factor VIII production. Biotechnology Progress, 2020, 36, e2915.	2.6	8
52	Application of immobilized bovine enterokinase in repetitive fusion protein cleavage for the production of mucin 1. Biotechnology Journal, 2009, 4, 1610-1618.	3.5	7
53	CellViCAMâ€"Cell viability classification for animal cell cultures using dark field micrographs. Journal of Biotechnology, 2010, 149, 310-316.	3.8	7
54	Criteria for bioreactor comparison and operation standardisation during process development for mammalian cell culture. BMC Proceedings, 2011, 5, P47.	1.6	7

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55	Growth characterization of CHO DP-12 cell lines with different high passage histories. BMC Proceedings, 2011, 5, P29.	1.6	6
56	A method for metabolomic sampling of suspended animal cells using fast filtration. BMC Proceedings, 2011, 5, P93.	1.6	6
57	Growth and eGFP Production of CHO-K1 Suspension Cells Cultivated From Single Cell to Laboratory Scale. Frontiers in Bioengineering and Biotechnology, 2021, 9, 716343.	4.1	5
58	Hyperosmolality in CHO cell culture: effects on the proteome. Applied Microbiology and Biotechnology, 2022, 106, 2569-2586.	3.6	4
59	Immunisation with â€˜naÃ¯veâ€™ syngeneic dendritic cells protects mice from tumour challenge. British Journal of Cancer, 2008, 98, 784-791.	6.4	3
60	Proteomic and metabolomic characterization of CHO DP-12 cell lines with different high passage histories. BMC Proceedings, 2011, 5, P92.	1.6	3
61	Batchâ€toâ€batch variability of two human designer cell lines â€“ <scp>AGE</scp>1.<scp>HN</scp> and <scp>AGE</scp>1.<scp>HN</scp>.<scp>AAT</scp> â€“ carried out by different laboratories under defined culture conditions using a mathematical model. Engineering in Life Sciences, 2013, 13, 580-592.	3.6	3
62	A positive pressure workstation for semiâ€automated peptide purification of complex proteomic samples. Rapid Communications in Mass Spectrometry, 2021, 35, e8873.	1.5	3
63	Interaction of leachable model compounds and their impact on <scp>Chinese hamster ovary</scp> cell cultivation. Biotechnology Progress, 2021, 37, e3150.	2.6	3
64	Single-Cell Analysis of CHO Cells Reveals Clonal Heterogeneity in Hyperosmolality-Induced Stress Response. Cells, 2022, 11, 1763.	4.1	3
65	Characterization of the human AGE1.HN cell line: a systems biology approach. BMC Proceedings, 2011, 5, P78.	1.6	2
66	Enhancing cell growth and antibody production in CHO cells by siRNA knockdown of novel target genes. BMC Proceedings, 2013, 7, .	1.6	2
67	New Electrofusion Devices for the Improved Generation of Dendritic Cell-tumour Cell Hybrids. , 2007, , 207-216.		2
68	Title is missing!. Biotechnology Letters, 2002, 24, 861-866.	2.2	1
69	Utilization of multifrequency permittivity measurements in addition to biomass monitoring. BMC Proceedings, 2011, 5, P30.	1.6	1
70	Characterisation of cultivation of the human cell line AGE1.HN.AAT. BMC Proceedings, 2011, 5, P87.	1.6	1
71	First CpG island microarray for genome-wide analyses of DNA methylation in Chinese hamster ovary cells: new insights into the epigenetic answer to butyrate treatment. BMC Proceedings, 2013, 7, .	1.6	1
72	The Genomics Revolution and its Impact on Future Biotechnology. Journal of Biotechnology, 2014, 190, 1.	3.8	1

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73	Proteomic Characterisation of a Glucose-Limited CHO Perfusion Processâ€“Analysis of Metabolic Changes and Increase in Productivity. , 2010, , 265-269.		1
74	Microfluidics and Micropatterned Immobilization as a Tool for Improved Electrofusion of Dendritic Cells with Tumor Cells. Journal of Immunotherapy, 2004, 27, S30-S31.	2.4	0
75	Analysis of the mitochondrial subproteome of the human cell line AGE1.HN â€“ a contribution to a systems biology approach. BMC Proceedings, 2011, 5, P86.	1.6	0
76	Effects of perfusion processes under limiting conditions on different Chinese Hamster Ovary cells. BMC Proceedings, 2013, 7, .	1.6	0
77	5.2 Functional -Omics for Cell Lines and Processes: The -Omics Technologies on the Example of CHO Cells. , 2014, , 326-367.		0
78	Bioprocess Development for the Cultivation of Human T-Lymphocytes. , 2001, , 503-509.		0
79	O-Glycans on Recombinant MUC1 Produced in CHO K1 Cells Become Less Sialylated with Increased Protein Productivity, as Determined by LC-ESI MS. , 2010, , 285-288.		0
80	A glyco-immune checkpoint: Modulation of the immune micro-environment and induction of stem cell-like properties in breast cancer cells.. Journal of Clinical Oncology, 2018, 36, e15104-e15104.	1.6	0