

# Niall Barron

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/9384765/niall-barron-publications-by-citations.pdf>

**Version:** 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79  
papers

1,951  
citations

24  
h-index

42  
g-index

84  
ext. papers

2,139  
ext. citations

4.4  
avg. IF

4.43  
L-index

#	Paper	IF	Citations
79	Exercise intensity-dependent regulation of peroxisome proliferator-activated receptor coactivator-1 mRNA abundance is associated with differential activation of upstream signalling kinases in human skeletal muscle. <i>Journal of Physiology</i> , <b>2010</b> , 588, 1779-90	3.9	253
78	Steroid receptor RNA activator stimulates proliferation as well as apoptosis in vivo. <i>Molecular and Cellular Biology</i> , <b>2003</b> , 23, 7163-76	4.8	127
77	Engineering CHO cell growth and recombinant protein productivity by overexpression of miR-7. <i>Journal of Biotechnology</i> , <b>2011</b> , 151, 204-11	3.7	93
76	Initial identification of low temperature and culture stage induction of miRNA expression in suspension CHO-K1 cells. <i>Journal of Biotechnology</i> , <b>2007</b> , 130, 213-8	3.7	84
75	Predicting cell-specific productivity from CHO gene expression. <i>Journal of Biotechnology</i> , <b>2011</b> , 151, 159-65	3.7	78
74	Integrated miRNA, mRNA and protein expression analysis reveals the role of post-transcriptional regulation in controlling CHO cell growth rate. <i>BMC Genomics</i> , <b>2012</b> , 13, 656	4.5	68
73	CHO microRNA engineering is growing up: recent successes and future challenges. <i>Biotechnology Advances</i> , <b>2013</b> , 31, 1501-13	17.8	67
72	Microarray and proteomics expression profiling identifies several candidates, including the valosin-containing protein (VCP), involved in regulating high cellular growth rate in production CHO cell lines. <i>Biotechnology and Bioengineering</i> , <b>2010</b> , 106, 42-56	4.9	60
71	Large scale microarray profiling and coexpression network analysis of CHO cells identifies transcriptional modules associated with growth and productivity. <i>Journal of Biotechnology</i> , <b>2011</b> , 155, 350-9	3.7	57
70	Copper phenanthrene oxidative chemical nucleases. <i>Inorganic Chemistry</i> , <b>2014</b> , 53, 5392-404	5.1	55
69	MicroRNAs: tiny targets for engineering CHO cell phenotypes?. <i>Biotechnology Letters</i> , <b>2011</b> , 33, 11-21	3	55
68	Sustained productivity in recombinant Chinese hamster ovary (CHO) cell lines: proteome analysis of the molecular basis for a process-related phenotype. <i>BMC Biotechnology</i> , <b>2011</b> , 11, 78	3.5	53
67	Impact of miR-7 over-expression on the proteome of Chinese hamster ovary cells. <i>Journal of Biotechnology</i> , <b>2012</b> , 160, 251-62	3.7	51
66	MiR-7 triggers cell cycle arrest at the G1/S transition by targeting multiple genes including Skp2 and Psme3. <i>PLoS ONE</i> , <b>2013</b> , 8, e65671	3.7	49
65	Regulating bioactivity of Cu <sup>2+</sup> bis-1,10-phenanthroline artificial metallonucleases with sterically functionalized pendant carboxylates. <i>Journal of Medicinal Chemistry</i> , <b>2013</b> , 56, 8599-615	8.3	47
64	Potent oxidative DNA cleavage by the di-copper cytotoxin: [Cu <sub>2</sub> (terephthalate)(1,10-phen) <sub>4</sub> ] <sup>2+</sup> . <i>Chemical Communications</i> , <b>2012</b> , 48, 6906-8	5.8	46
63	Biochemical relapse following radical prostatectomy and miR-200a levels in prostate cancer. <i>Prostate</i> , <b>2012</b> , 72, 1193-9	4.2	43

62	CHO cell culture longevity and recombinant protein yield are enhanced by depletion of miR-7 activity via sponge decoy vectors. <i>Biotechnology Journal</i> , <b>2014</b> , 9, 396-404	5.6	42
61	Utilization and evaluation of CHO-specific sequence databases for mass spectrometry based proteomics. <i>Biotechnology and Bioengineering</i> , <b>2012</b> , 109, 1386-94	4.9	42
60	Re-programming CHO cell metabolism using miR-23 tips the balance towards a highly productive phenotype. <i>Biotechnology Journal</i> , <b>2015</b> , 10, 1029-40	5.6	37
59	[Cu(o-phthalate)(phenanthroline)] Exhibits Unique Superoxide-Mediated NCI-60 Chemotherapeutic Action through Genomic DNA Damage and Mitochondrial Dysfunction. <i>ACS Chemical Biology</i> , <b>2016</b> , 11, 159-71	4.9	36
58	A new phenanthroline-oxazine ligand: synthesis, coordination chemistry and atypical DNA binding interaction. <i>Chemical Communications</i> , <b>2013</b> , 49, 2341-3	5.8	34
57	Transcriptomic analysis of clonal growth rate variation during CHO cell line development. <i>Journal of Biotechnology</i> , <b>2013</b> , 166, 105-13	3.7	24
56	Process-relevant concentrations of the leachable bDtbPP impact negatively on CHO cell production characteristics. <i>Biotechnology Progress</i> , <b>2016</b> , 32, 1547-1558	2.8	24
55	Application of response surface methodology in the design of functionally graded plasma sprayed hydroxyapatite coatings. <i>Surface and Coatings Technology</i> , <b>2017</b> , 313, 307-318	4.4	22
54	Decreasing Txnip mRNA and protein levels in pancreatic MIN6 cells reduces reactive oxygen species and restores glucose regulated insulin secretion. <i>Cellular Physiology and Biochemistry</i> , <b>2010</b> , 25, 667-74	3.9	21
53	Conserved microRNA function as a basis for Chinese hamster ovary cell engineering. <i>Biotechnology Letters</i> , <b>2015</b> , 37, 787-98	3	20
52	Interaction of Plasma Deposited HMDSO-Based Coatings with Fibrinogen and Human Blood Plasma: The Correlation between Bulk Plasma, Surface Characteristics and Biomolecule Interaction. <i>Plasma Processes and Polymers</i> , <b>2010</b> , 7, 411-421	3.4	18
51	Directed differentiation of mouse embryonic stem cells into pancreatic-like or neuronal- and glial-like phenotypes. <i>Tissue Engineering</i> , <b>2007</b> , 13, 2419-30		18
50	Ultra-deep next generation mitochondrial genome sequencing reveals widespread heteroplasmy in Chinese hamster ovary cells. <i>Metabolic Engineering</i> , <b>2017</b> , 41, 11-22	9.7	16
49	Development and characterization of a Chinese hamster ovary cell-specific oligonucleotide microarray. <i>Biotechnology Letters</i> , <b>2011</b> , 33, 1773-9	3	16
48	Continuous translation of circularized mRNA improves recombinant protein titer. <i>Metabolic Engineering</i> , <b>2019</b> , 52, 284-292	9.7	16
47	Resistance to multiple steroids in two sisters. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2001</b> , 76, 161-6	5.1	15
46	Increased efficiency of substrate utilization by exposure of the thermotolerant yeast strain, <i>Kluyveromyces marxianus</i> IMB3 to electric-field stimulation. <i>Biotechnology Letters</i> , <b>1995</b> , 9, 133		15
45	Leaky Expression of the TET-On System Hinders Control of Endogenous miRNA Abundance. <i>Biotechnology Journal</i> , <b>2019</b> , 14, e1800219	5.6	13

44	Microarray expression profiling identifies genes regulating sustained cell specific productivity (S-Qp) in CHO K1 production cell lines. <i>Biotechnology Journal</i> , <b>2012</b> , 7, 516-26	5.6	13
43	Towards next generation CHO cell biology: Bioinformatics methods for RNA-Seq-based expression profiling. <i>Biotechnology Journal</i> , <b>2015</b> , 10, 950-66	5.6	12
42	CGCDB: a web-based resource for the investigation of gene coexpression in CHO cell culture. <i>Biotechnology and Bioengineering</i> , <b>2012</b> , 109, 1368-70	4.9	12
41	Parallel mRNA, proteomics and miRNA expression analysis in cell line models of the intestine. <i>World Journal of Gastroenterology</i> , <b>2017</b> , 23, 7369-7386	5.6	12
40	Reinventing the Wheel: Synthetic Circular RNAs for Mammalian Cell Engineering. <i>Trends in Biotechnology</i> , <b>2020</b> , 38, 217-230	15.1	10
39	Increased growth rate and productivity following stable depletion of miR-7 in a mAb producing CHO cell line causes an increase in proteins associated with the Akt pathway and ribosome biogenesis. <i>Journal of Proteomics</i> , <b>2019</b> , 195, 23-32	3.9	9
38	Depletion of endogenous miRNA-378-3p increases peak cell density of CHO DP12 cells and is correlated with elevated levels of ubiquitin carboxyl-terminal hydrolase 14. <i>Journal of Biotechnology</i> , <b>2018</b> , 288, 30-40	3.7	9
37	Genetic and Epigenetic Variation across Genes Involved in Energy Metabolism and Mitochondria of Chinese Hamster Ovary Cell Lines. <i>Biotechnology Journal</i> , <b>2019</b> , 14, e1800681	5.6	8
36	Short communication: Ethanol production from cellulose at 45°C using a batch-fed system containing alginate-immobilized <i>Kluyveromyces marxianus</i> IMB3. <i>World Journal of Microbiology and Biotechnology</i> , <b>1996</b> , 12, 103-4	4.4	8
35	Radical-induced purine lesion formation is dependent on DNA helical topology. <i>Free Radical Research</i> , <b>2016</b> , 50, S91-S101	4	8
34	From media to mitochondria: Rewiring cellular energy metabolism of Chinese hamster ovary cells for the enhanced production of biopharmaceuticals. <i>Current Opinion in Chemical Engineering</i> , <b>2018</b> , 22, 71-80	5.4	8
33	Targeting miRNAs with CRISPR/Cas9 to Improve Recombinant Protein Production of CHO Cells. <i>Methods in Molecular Biology</i> , <b>2018</b> , 1850, 221-235	1.4	8
32	A microarray approach to translational medicine in breast cancer: how representative are cell line models of clinical conditions?. <i>Anticancer Research</i> , <b>2007</b> , 27, 1295-300	2.3	8
31	Bioprocess engineering: micromanaging Chinese hamster ovary cell phenotypes. <i>Pharmaceutical Bioprocessing</i> , <b>2014</b> , 2, 323-337		7
30	Conditional Knockdown of Endogenous MicroRNAs in CHO Cells Using TET-ON-SanDI Sponge Vectors. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1603, 87-100	1.4	6
29	Transcriptomic analysis of IgG4 Fc-fusion protein degradation in a panel of clonally-derived CHO cell lines using RNASeq. <i>Biotechnology and Bioengineering</i> , <b>2019</b> , 116, 1556-1562	4.9	6
28	Expanding the Chinese hamster ovary cell long noncoding RNA transcriptome using RNASeq. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 3224-3231	4.9	6
27	miR-CATCH Identifies Biologically Active miRNA Regulators of the Pro-Survival Gene XIAP, in Chinese Hamster Ovary Cells. <i>Biotechnology Journal</i> , <b>2018</b> , 13, e1700299	5.6	6

26	Clonal variation in productivity and proteolytic clipping of an Fc-fusion protein in CHO cells: Proteomic analysis suggests a role for defective protein folding and the UPR. <i>Journal of Biotechnology</i> , <b>2018</b> , 281, 21-30	3.7	6
25	Zinc supplementation increases protein titer of recombinant CHO cells. <i>Cytotechnology</i> , <b>2019</b> , 71, 915-924	2.4	6
24	Detecting de novo insulin synthesis in embryonic stem cell-derived populations. <i>Experimental Cell Research</i> , <b>2007</b> , 313, 1405-14	4.2	6
23	Improvements in single-use bioreactor film material composition leads to robust and reliable Chinese hamster ovary cell performance. <i>Biotechnology Progress</i> , <b>2019</b> , 35, e2824	2.8	5
22	Exploring the Potential Application of Short Non-Coding RNA-Based Genetic Circuits in Chinese Hamster Ovary Cells. <i>Biotechnology Journal</i> , <b>2018</b> , 13, e1700220	5.6	5
21	Improved yield of rhEPO in CHO cells with synthetic 5SUTR. <i>Biotechnology Letters</i> , <b>2019</b> , 41, 231-239	3	5
20	LC-MS/MS-based quantitative proteomic and phosphoproteomic analysis of CHO-K1 cells adapted to growth in glutamine-free media. <i>Biotechnology Letters</i> , <b>2020</b> , 42, 2523-2536	3	4
19	COMP-Ang1 Stabilizes Hyperglycemic Disruption of Blood-Retinal Barrier Phenotype in Human Retinal Microvascular Endothelial Cells <b>2019</b> , 60, 3547-3555		4
18	An arginase-based system for selection of transfected CHO cells without the use of toxic chemicals. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 18756-18768	5.4	4
17	Targeted genetic modification of cell lines for recombinant protein production. <i>Cytotechnology</i> , <b>2007</b> , 53, 65-73	2.2	4
16	Understanding biopharmaceutical production at single nucleotide resolution using ribosome footprint profiling. <i>Current Opinion in Biotechnology</i> , <b>2018</b> , 53, 182-190	11.4	3
15	Antimicrobial Peptide Production and Purification. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1485, 401-410	1.4	3
14	Statistical methods for mining Chinese hamster ovary cell omics data: from differential expression to integrated multilevel analysis of the biological system. <i>Pharmaceutical Bioprocessing</i> , <b>2014</b> , 2, 469-481		3
13	A proteomic profiling dataset of recombinant Chinese hamster ovary cells showing enhanced cellular growth following miR-378 depletion. <i>Data in Brief</i> , <b>2018</b> , 21, 2679-2688	1.2	3
12	A Bioinformatics Pipeline for the Identification of CHO Cell Differential Gene Expression from RNA-Seq Data. <i>Methods in Molecular Biology</i> , <b>2017</b> , 1603, 169-186	1.4	2
11	Subphysiological temperature induces pervasive alternative splicing in Chinese hamster ovary cells. <i>Biotechnology and Bioengineering</i> , <b>2020</b> , 117, 2489-2503	4.9	2
10	Engineering CHO cell growth by stable manipulation of miRNA expression. <i>BMC Proceedings</i> , <b>2011</b> , 5 Suppl 8, P22	2.3	2
9	Detection and cloning of LINE-1 elements in CHO cells. <i>Cytotechnology</i> , <b>2007</b> , 53, 75-80	2.2	2

8	Cross-talk between m6A and m1A regulators, YTHDF2 and ALKBH3 fine-tunes mRNA expression		2
7	Tracing production instability in a clonally derived CHO cell line using single-cell transcriptomics. <i>Biotechnology and Bioengineering</i> , <b>2021</b> , 118, 2016-2030	4.9	2
6	Target Prediction Algorithms and Bioinformatics Resources for miRNA Studies <b>2012</b> , 29-48		1
5	In vivo cytoplasmic localization of the p40 protein of the L1 transposable element of human genome. <i>Doklady Biochemistry and Biophysics</i> , <b>2004</b> , 395, 118-9	0.8	1
4	Use of carbohydrate-supplemented distillery spent wash as a medium for ethanol production by a thermotolerant strain of yeast at 45°C. <i>Biotechnology Letters</i> , <b>1996</b> , 10, 349		1
3	MicroRNAs as Potential Engineering Targets for Improvement of CHO Cell Production Phenotypes <b>2012</b> , 3-11		1
2	Differential expression of miRNAs and functional role of mir-200a in high and low productivity CHO cells expressing an Fc fusion protein. <i>Biotechnology Letters</i> , <b>2021</b> , 43, 1551-1563	3	1
1	Altered gene expression in CHO cells following polyamine starvation. <i>Biotechnology Letters</i> , <b>2020</b> , 42, 927-936	3	0