

Paula Marques Alves

List of Publications by Citations

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324
papers

9,139
citations

50
h-index

75
g-index

339
ext. papers

10,510
ext. citations

5
avg, IF

6.1
L-index

#	Paper	IF	Citations
324	Virus-like particles in vaccine development. <i>Expert Review of Vaccines</i> , 2010 , 9, 1149-76	5.2	536
323	Process engineering of human pluripotent stem cells for clinical application. <i>Trends in Biotechnology</i> , 2012 , 30, 350-9	15.1	228
322	Human liver cell spheroids in extended perfusion bioreactor culture for repeated-dose drug testing. <i>Hepatology</i> , 2012 , 55, 1227-36	11.2	165
321	Large-scale production and purification of VLP-based vaccines. <i>Journal of Invertebrate Pathology</i> , 2011 , 107 Suppl, S42-8	2.6	162
320	Advances in on-line monitoring and control of mammalian cell cultures: Supporting the PAT initiative. <i>Biotechnology Advances</i> , 2009 , 27, 726-732	17.8	156
319	Modulation of neuronal stem cell differentiation by hypoxia and reactive oxygen species. <i>Progress in Neurobiology</i> , 2011 , 93, 444-55	10.9	130
318	Microencapsulation technology: a powerful tool for integrating expansion and cryopreservation of human embryonic stem cells. <i>PLoS ONE</i> , 2011 , 6, e23212	3.7	127
317	Improving expansion of pluripotent human embryonic stem cells in perfused bioreactors through oxygen control. <i>Journal of Biotechnology</i> , 2010 , 148, 208-15	3.7	120
316	A multi-organ chip co-culture of neurospheres and liver equivalents for long-term substance testing. <i>Journal of Biotechnology</i> , 2015 , 205, 36-46	3.7	113
315	Effects of ammonia and lactate on growth, metabolism, and productivity of BHK cells. <i>Enzyme and Microbial Technology</i> , 2000 , 27, 43-52	3.8	113
314	3D-3-culture: A tool to unveil macrophage plasticity in the tumour microenvironment. <i>Biomaterials</i> , 2018 , 163, 185-197	15.6	107
313	Glutathionylation of adenine nucleotide translocase induced by carbon monoxide prevents mitochondrial membrane permeabilization and apoptosis. <i>Journal of Biological Chemistry</i> , 2010 , 285, 17077-88	5.4	107
312	Distinct carbon sources affect structural and functional maturation of cardiomyocytes derived from human pluripotent stem cells. <i>Scientific Reports</i> , 2017 , 7, 8590	4.9	103
311	Metabolic Maturation of Human Pluripotent Stem Cell-Derived Cardiomyocytes by Inhibition of HIF1 α and LDHA. <i>Circulation Research</i> , 2018 , 123, 1066-1079	15.7	98
310	Neuroprotective effect of blackberry (<i>Rubus</i> sp.) polyphenols is potentiated after simulated gastrointestinal digestion. <i>Food Chemistry</i> , 2012 , 131, 1443-1452	8.5	88
309	Downstream processing of triple layered rotavirus like particles. <i>Journal of Biotechnology</i> , 2007 , 127, 452-61	3.7	85
308	Cell density effect in the baculovirus-insect cells system: a quantitative analysis of energetic metabolism. <i>Biotechnology and Bioengineering</i> , 2009 , 104, 162-80	4.9	83

307	Purification of retroviral vectors for clinical application: biological implications and technological challenges. <i>Journal of Biotechnology</i> , 2007 , 127, 520-41	3.7	83
306	Modelling the tumour microenvironment in long-term microencapsulated 3D co-cultures recapitulates phenotypic features of disease progression. <i>Biomaterials</i> , 2016 , 78, 50-61	15.6	80
305	Evaluation of the impact of matrix stiffness on encapsulated HepaRG spheroids. <i>BMC Proceedings</i> , 2013 , 7, P77	2.3	78
304	Carbon monoxide modulates apoptosis by reinforcing oxidative metabolism in astrocytes: role of Bcl-2. <i>Journal of Biological Chemistry</i> , 2012 , 287, 10761-70	5.4	78
303	Improved virus purification processes for vaccines and gene therapy. <i>Biotechnology and Bioengineering</i> , 2015 , 112, 843-57	4.9	77
302	Extending hepatocyte functionality for drug-testing applications using high-viscosity alginate-encapsulated three-dimensional cultures in bioreactors. <i>Tissue Engineering - Part C: Methods</i> , 2010 , 16, 1223-32	2.9	77
301	Three-dimensional HepaRG model as an attractive tool for toxicity testing. <i>Toxicological Sciences</i> , 2012 , 130, 106-16	4.4	74
300	Purification of recombinant baculoviruses for gene therapy using membrane processes. <i>Gene Therapy</i> , 2009 , 16, 766-75	4	73
299	Antioxidant properties and neuroprotective capacity of strawberry tree fruit (<i>Arbutus unedo</i>). <i>Nutrients</i> , 2010 , 2, 214-29	6.7	72
298	In situ 2D fluorometry and chemometric monitoring of mammalian cell cultures. <i>Biotechnology and Bioengineering</i> , 2009 , 102, 1098-106	4.9	72
297	Anion-exchange membrane chromatography for purification of rotavirus-like particles. <i>Journal of Membrane Science</i> , 2008 , 311, 270-283	9.6	72
296	Pre-conditioning induced by carbon monoxide provides neuronal protection against apoptosis. <i>Journal of Neurochemistry</i> , 2008 , 107, 375-84	6	71
295	Triple layered rotavirus VLP production: kinetics of vector replication, mRNA stability and recombinant protein production. <i>Journal of Biotechnology</i> , 2005 , 120, 72-82	3.7	71
294	3D aggregate culture improves metabolic maturation of human pluripotent stem cell derived cardiomyocytes. <i>Biotechnology and Bioengineering</i> , 2018 , 115, 630-644	4.9	70
293	Improving baculovirus production at high cell density through manipulation of energy metabolism. <i>Metabolic Engineering</i> , 2010 , 12, 39-52	9.7	69
292	Adaptable stirred-tank culture strategies for large scale production of multicellular spheroid-based tumor cell models. <i>Journal of Biotechnology</i> , 2016 , 221, 118-29	3.7	66
291	Towards an extended functional hepatocyte in vitro culture. <i>Tissue Engineering - Part C: Methods</i> , 2009 , 15, 157-67	2.9	66
290	Perfusion of 3D encapsulated hepatocytes--a synergistic effect enhancing long-term functionality in bioreactors. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 41-9	4.9	65

289	Metabolic signatures of GS-CHO cell clones associated with butyrate treatment and culture phase transition. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 3244-57	4.9	64
288	Use of adenoviral vectors as veterinary vaccines. <i>Gene Therapy</i> , 2005 , 12 Suppl 1, S73-83	4	62
287	Drug screening in 3D in vitro tumor models: overcoming current pitfalls of efficacy read-outs. <i>Biotechnology Journal</i> , 2017 , 12, 1600505	5.6	60
286	Insect cells as a production platform of complex virus-like particles. <i>Expert Review of Vaccines</i> , 2013 , 12, 225-36	5.2	60
285	Error assessment in recombinant baculovirus titration: evaluation of different methods. <i>Journal of Virological Methods</i> , 2009 , 159, 69-80	2.6	59
284	Hybrid elementary flux analysis/nonparametric modeling: application for bioprocess control. <i>BMC Bioinformatics</i> , 2007 , 8, 30	3.6	56
283	Expansion of 3D human induced pluripotent stem cell aggregates in bioreactors: Bioprocess intensification and scaling-up approaches. <i>Journal of Biotechnology</i> , 2017 , 246, 81-93	3.7	54
282	Combining hypoxia and bioreactor hydrodynamics boosts induced pluripotent stem cell differentiation towards cardiomyocytes. <i>Stem Cell Reviews and Reports</i> , 2014 , 10, 786-801	6.4	54
281	Metabolic responses of CHO cells to limitation of key amino acids. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 2095-106	4.9	54
280	Neuroprotective effects of digested polyphenols from wild blackberry species. <i>European Journal of Nutrition</i> , 2013 , 52, 225-36	5.2	53
279	Downstream processing of lentiviral vectors: releasing bottlenecks. <i>Human Gene Therapy Methods</i> , 2012 , 23, 255-63	4.9	53
278	Rational design and optimization of downstream processes of virus particles for biopharmaceutical applications: current advances. <i>Biotechnology Advances</i> , 2011 , 29, 869-78	17.8	52
277	Hydrodynamic effects on BHK cells grown as suspended natural aggregates. <i>Biotechnology and Bioengineering</i> , 1995 , 46, 351-60	4.9	52
276	Three-dimensional co-culture of human hepatocytes and mesenchymal stem cells: improved functionality in long-term bioreactor cultures. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 2034-2045	4.4	51
275	CHK1 overexpression in T-cell acute lymphoblastic leukemia is essential for proliferation and survival by preventing excessive replication stress. <i>Oncogene</i> , 2015 , 34, 2978-90	9.2	51
274	Towards purification of adenoviral vectors based on membrane technology. <i>Biotechnology Progress</i> , 2008 , 24, 1290-6	2.8	50
273	Towards real-time monitoring of therapeutic protein quality in mammalian cell processes. <i>Current Opinion in Biotechnology</i> , 2014 , 30, 161-7	11.4	49
272	Extracellular Vesicles from Ovarian Carcinoma Cells Display Specific Glycosignatures. <i>Biomolecules</i> , 2015 , 5, 1741-61	5.9	49

271	How can measurement, monitoring, modeling and control advance cell culture in industrial biotechnology?. <i>Biotechnology Journal</i> , 2012 , 7, 1522-9	5.6	47
270	Production and purification of lentiviral vectors generated in 293T suspension cells with baculoviral vectors. <i>Gene Therapy</i> , 2011 , 18, 531-8	4	47
269	Inhibitors of the alpha-ketoglutarate dehydrogenase complex alter [1-13C]glucose and [U-13C]glutamate metabolism in cerebellar granule neurons. <i>Journal of Neuroscience Research</i> , 2006 , 83, 450-8	4.4	47
268	Alginate encapsulation as a novel strategy for the cryopreservation of neurospheres. <i>Tissue Engineering - Part C: Methods</i> , 2010 , 16, 965-77	2.9	45
267	Baculovirus production for gene therapy: the role of cell density, multiplicity of infection and medium exchange. <i>Applied Microbiology and Biotechnology</i> , 2009 , 81, 1041-9	5.7	44
266	Merging bioreactor technology with 3D hepatocyte-fibroblast culturing approaches: Improved in vitro models for toxicological applications. <i>Toxicology in Vitro</i> , 2011 , 25, 825-32	3.6	43
265	HepaRG microencapsulated spheroids in DMSO-free culture: novel culturing approaches for enhanced xenobiotic and biosynthetic metabolism. <i>Archives of Toxicology</i> , 2015 , 89, 1347-58	5.8	41
264	Production of oncolytic adenovirus and human mesenchymal stem cells in a single-use, Vertical-Wheel bioreactor system: Impact of bioreactor design on performance of microcarrier-based cell culture processes. <i>Biotechnology Progress</i> , 2015 , 31, 1600-12	2.8	41
263	Stem cell-derived systems in toxicology assessment. <i>Stem Cells and Development</i> , 2015 , 24, 1284-96	4.4	41
262	Modelling and optimization of a recombinant BHK-21 cultivation process using hybrid grey-box systems. <i>Journal of Biotechnology</i> , 2005 , 118, 290-303	3.7	41
261	Recapitulation of Human Neural Microenvironment Signatures in iPSC-Derived NPC 3D Differentiation. <i>Stem Cell Reports</i> , 2018 , 11, 552-564	8	40
260	Effect of re-feed strategies and non-ammonogenic medium on adenovirus production at high cell densities. <i>Journal of Biotechnology</i> , 2005 , 119, 272-80	3.7	40
259	Immune-Complexed Adenovirus Induce AIM2-Mediated Pyroptosis in Human Dendritic Cells. <i>PLoS Pathogens</i> , 2016 , 12, e1005871	7.6	40
258	Flexible nanofilms coated with aligned piezoelectric microfibers preserve the contractility of cardiomyocytes. <i>Biomaterials</i> , 2017 , 139, 213-228	15.6	39
257	Exploring continuous and integrated strategies for the up- and downstream processing of human mesenchymal stem cells. <i>Journal of Biotechnology</i> , 2015 , 213, 97-108	3.7	38
256	Adenovirus purification by two-column, size-exclusion, simulated countercurrent chromatography. <i>Journal of Chromatography A</i> , 2014 , 1347, 111-21	4.5	38
255	Encapsulation of adenoviral vectors into chitosan-bile salt microparticles for mucosal vaccination. <i>Journal of Biotechnology</i> , 2006 , 126, 152-62	3.7	38
254	Screening anion-exchange chromatographic matrices for isolation of onco-retroviral vectors. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2006 , 837, 59-68 ³⁻²		38

253	Bioprocess integration for human mesenchymal stem cells: From up to downstream processing scale-up to cell proteome characterization. <i>Journal of Biotechnology</i> , 2017 , 248, 87-98	3.7	37
252	3D cultures of human neural progenitor cells: dopaminergic differentiation and genetic modification. [corrected]. <i>Methods</i> , 2012 , 56, 452-60	4.6	37
251	Carbon monoxide prevents hepatic mitochondrial membrane permeabilization. <i>BMC Cell Biology</i> , 2011 , 12, 10		37
250	Integrating human stem cell expansion and neuronal differentiation in bioreactors. <i>BMC Biotechnology</i> , 2009 , 9, 82	3.5	37
249	Modeling rotavirus-like particles production in a baculovirus expression vector system: Infection kinetics, baculovirus DNA replication, mRNA synthesis and protein production. <i>Journal of Biotechnology</i> , 2007 , 128, 875-94	3.7	37
248	Synthesis, characterization and antitumor activity of 1,2-disubstituted ferrocenes and cyclodextrin inclusion complexes. <i>Journal of Organometallic Chemistry</i> , 2008 , 693, 675-684	2.3	36
247	Systems biotechnology of animal cells: the road to prediction. <i>Trends in Biotechnology</i> , 2012 , 30, 377-85	15.1	35
246	Bioprocess development for canine adenovirus type 2 vectors. <i>Gene Therapy</i> , 2013 , 20, 353-60	4	34
245	Preconditioning triggered by carbon monoxide (CO) provides neuronal protection following perinatal hypoxia-ischemia. <i>PLoS ONE</i> , 2012 , 7, e42632	3.7	34
244	Toward preclinical predictive drug testing for metabolism and hepatotoxicity by using in vitro models derived from human embryonic stem cells and human cell lines - a report on the Vitrocellomics EU-project. <i>ATLA Alternatives To Laboratory Animals</i> , 2011 , 39, 147-71	2.1	34
243	Metabolic alterations induced by ischemia in primary cultures of astrocytes: merging ¹³ C NMR spectroscopy and metabolic flux analysis. <i>Journal of Neurochemistry</i> , 2010 , 113, 735-48	6	34
242	Current challenges in biotherapeutic particles manufacturing. <i>Expert Opinion on Biological Therapy</i> , 2020 , 20, 451-465	5.4	34
241	Modeling human neural functionality in vitro: three-dimensional culture for dopaminergic differentiation. <i>Tissue Engineering - Part A</i> , 2015 , 21, 654-68	3.9	33
240	Imaging of human differentiated 3D neural aggregates using light sheet fluorescence microscopy. <i>Frontiers in Cellular Neuroscience</i> , 2014 , 8, 221	6.1	33
239	Cultures of rat astrocytes challenged with a steady supply of glutamate: new model to study flux distribution in the glutamate-glutamine cycle. <i>Glia</i> , 2005 , 51, 286-96	9	33
238	Cryopreservation of adherent cells: strategies to improve cell viability and function after thawing. <i>Tissue Engineering - Part C: Methods</i> , 2009 , 15, 373-86	2.9	32
237	Screening of novel excipients for improving the stability of retroviral and adenoviral vectors. <i>Biotechnology Progress</i> , 2006 , 22, 568-76	2.8	32
236	Viral vaccines and their manufacturing cell substrates: New trends and designs in modern vaccinology. <i>Biotechnology Journal</i> , 2015 , 10, 1329-44	5.6	31

235	Filtration methodologies for the clarification and concentration of human mesenchymal stem cells. <i>Journal of Membrane Science</i> , 2015 , 478, 117-129	9.6	31
234	A comprehensive metabolic profile of cultured astrocytes using isotopic transient metabolic flux analysis and C-labeled glucose. <i>Frontiers in Neuroenergetics</i> , 2011 , 3, 5		31
233	Hybrid metabolic flux analysis: combining stoichiometric and statistical constraints to model the formation of complex recombinant products. <i>BMC Systems Biology</i> , 2011 , 5, 34	3.5	31
232	Kinetic analysis of L1 homophilic interaction: role of the first four immunoglobulin domains and implications on binding mechanism. <i>Journal of Biological Chemistry</i> , 2008 , 283, 28038-47	5.4	31
231	Scaleable purification process for gene therapy retroviral vectors. <i>Journal of Gene Medicine</i> , 2007 , 9, 233-43	3.5	31
230	Purification of adenoviral vectors using expanded bed chromatography. <i>Journal of Virological Methods</i> , 2006 , 132, 121-6	2.6	31
229	Quantitation of MLV-based retroviral vectors using real-time RT-PCR. <i>Journal of Virological Methods</i> , 2004 , 119, 115-9	2.6	31
228	Proteolytic activity in infected and noninfected insect cells: degradation of HIV-1 Pr55gag particles. <i>Biotechnology and Bioengineering</i> , 1999 , 65, 133-43	4.9	31
227	Robust Expansion of Human Pluripotent Stem Cells: Integration of Bioprocess Design With Transcriptomic and Metabolomic Characterization. <i>Stem Cells Translational Medicine</i> , 2015 , 4, 731-42	6.9	30
226	Toward system-level understanding of baculovirus-host cell interactions: from molecular fundamental studies to large-scale proteomics approaches. <i>Frontiers in Microbiology</i> , 2012 , 3, 391	5.7	30
225	Processing cherries (<i>Prunus avium</i>) using supercritical fluid technology. Part 2. Evaluation of SCF extracts as promising natural chemotherapeutical agents. <i>Journal of Supercritical Fluids</i> , 2011 , 55, 1007-1013	4.2	30
224	Lentivirus production is influenced by SV40 large T-antigen and chromosomal integration of the vector in HEK293 cells. <i>Human Gene Therapy</i> , 2011 , 22, 1269-79	4.8	30
223	Adenovirus vector production and purification. <i>Current Gene Therapy</i> , 2010 , 10, 437-55	4.3	29
222	Changes in animal cell natural aggregates in suspended batch cultures. <i>Applied Microbiology and Biotechnology</i> , 1994 , 41, 203-9	5.7	29
221	CXCL6 is an important paracrine factor in the pro-angiogenic human cardiac progenitor-like cell secretome. <i>Scientific Reports</i> , 2017 , 7, 12490	4.9	28
220	Protective effects of a blueberry extract in acute inflammation and collagen-induced arthritis in the rat. <i>Biomedicine and Pharmacotherapy</i> , 2016 , 83, 1191-1202	7.5	28
219	Flipase-mediated cassette exchange in Sf9 insect cells for stable gene expression. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 2836-44	4.9	28
218	Synchronous fluorescence spectroscopy as a novel tool to enable PAT applications in bioprocesses. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 1852-61	4.9	28

217	Effect of osmotic pressure on the production of retroviral vectors: Enhancement in vector stability. <i>Biotechnology and Bioengineering</i> , 2006 , 94, 322-9	4.9	28
216	Robust design of adenovirus purification by two-column, simulated moving-bed, size-exclusion chromatography. <i>Journal of Biotechnology</i> , 2015 , 213, 109-19	3.7	27
215	Effective Hypothermic Storage of Human Pluripotent Stem Cell-Derived Cardiomyocytes Compatible With Global Distribution of Cells for Clinical Applications and Toxicology Testing. <i>Stem Cells Translational Medicine</i> , 2016 , 5, 658-69	6.9	27
214	Retroviral vector production under serum deprivation: The role of lipids. <i>Biotechnology and Bioengineering</i> , 2009 , 104, 1171-81	4.9	27
213	Quantitative proteomics of <i>Spodoptera frugiperda</i> cells during growth and baculovirus infection. <i>PLoS ONE</i> , 2011 , 6, e26444	3.7	27
212	NMR studies on energy metabolism of immobilized primary neurons and astrocytes during hypoxia, ischemia and hypoglycemia. <i>NMR in Biomedicine</i> , 2000 , 13, 438-48	4.4	27
211	Lactate metabolism in mouse brain astrocytes studied by [¹³ C]NMR spectroscopy. <i>NeuroReport</i> , 1995 , 6, 2201-4	1.7	27
210	Human cardiac progenitor cell activation and regeneration mechanisms: exploring a novel myocardial ischemia/reperfusion in vitro model. <i>Stem Cell Research and Therapy</i> , 2019 , 10, 77	8.3	26
209	Estimation of intracellular fluxes in cerebellar neurons after hypoglycemia: importance of the pyruvate recycling pathway and glutamine oxidation. <i>Journal of Neuroscience Research</i> , 2011 , 89, 700-10	4.4	26
208	Stirred bioreactors for the expansion of adult pancreatic stem cells. <i>Annals of Anatomy</i> , 2009 , 191, 104-15	5.9	26
207	Effect of medium sugar source on the production of retroviral vectors for gene therapy. <i>Biotechnology and Bioengineering</i> , 2006 , 94, 24-36	4.9	26
206	Comparison of phenotypic and genotypic taxonomic methods for the identification of dairy enterococci. <i>Antonie Van Leeuwenhoek</i> , 2004 , 85, 237-52	2.1	26
205	Scalable culture systems using different cell lines for the production of Peste des Petits ruminants vaccine. <i>Vaccine</i> , 2008 , 26, 3305-11	4.1	25
204	Functional and phenotypic differences of pure populations of stem cell-derived astrocytes and neuronal precursor cells. <i>Glia</i> , 2016 , 64, 695-715	9	24
203	Production of retroviral vectors: review. <i>Current Gene Therapy</i> , 2010 , 10, 456-73	4.3	24
202	Portuguese winemaking residues as a potential source of natural anti-adenoviral agents. <i>International Journal of Food Sciences and Nutrition</i> , 2010 , 61, 357-68	3.7	24
201	Immunisation of sheep against heartwater in The Gambia using inactivated and attenuated <i>Ehrlichia ruminantium</i> vaccines. <i>Vaccine</i> , 2007 , 25, 7939-47	4.1	24
200	Hybrid semi-parametric mathematical systems: bridging the gap between systems biology and process engineering. <i>Journal of Biotechnology</i> , 2007 , 132, 418-25	3.7	24

199	Conversion of Nonproliferating Astrocytes into Neurogenic Neural Stem Cells: Control by FGF2 and Interferon- γ <i>Stem Cells</i> , 2016 , 34, 2861-2874	5.8	24
198	Dyospiros kaki phenolics inhibit colitis and colon cancer cell proliferation, but not gelatinase activities. <i>Journal of Nutritional Biochemistry</i> , 2017 , 46, 100-108	6.3	23
197	Strategies for improved stability of Peste des Petits Ruminants Vaccine. <i>Vaccine</i> , 2011 , 29, 4983-91	4.1	23
196	Impact of ligand density on the optimization of ion-exchange membrane chromatography for viral vector purification. <i>Biotechnology and Bioengineering</i> , 2011 , 108, 1347-59	4.9	23
195	Combining metabolic flux analysis tools and ^{13}C NMR to estimate intracellular fluxes of cultured astrocytes. <i>Neurochemistry International</i> , 2008 , 52, 478-86	4.4	23
194	Novel culture strategy for human stem cell proliferation and neuronal differentiation. <i>Journal of Neuroscience Research</i> , 2007 , 85, 3557-66	4.4	23
193	Expression of recombinant antibody and secreted alkaline phosphatase in mammalian cells. Influence of cell line and culture system upon production kinetics. <i>Applied Microbiology and Biotechnology</i> , 1994 , 40, 851-6	5.7	23
192	Stabilization of gammaretroviral and lentiviral vectors: from production to gene transfer. <i>Journal of Gene Medicine</i> , 2009 , 11, 670-8	3.5	22
191	Culturing primary brain astrocytes under a fully controlled environment in a novel bioreactor. <i>Journal of Neuroscience Research</i> , 2005 , 79, 26-32	4.4	22
190	Universal label-free in-process quantification of influenza virus-like particles. <i>Biotechnology Journal</i> , 2017 , 12, 1700031	5.6	21
189	Membrane-Based Approach for the Downstream Processing of Influenza Virus-Like Particles. <i>Biotechnology Journal</i> , 2019 , 14, e1800570	5.6	21
188	Novel scalable 3D cell based model for in vitro neurotoxicity testing: Combining human differentiated neurospheres with gene expression and functional endpoints. <i>Journal of Biotechnology</i> , 2015 , 205, 82-92	3.7	21
187	Expansion of functional personalized cells with specific transgene combinations. <i>Nature Communications</i> , 2018 , 9, 994	17.4	21
186	Purification of influenza virus-like particles using sulfated cellulose membrane adsorbers. <i>Journal of Chemical Technology and Biotechnology</i> , 2018 , 93, 1988-1996	3.5	21
185	Elucidating how the saprophytic fungus <i>Aspergillus nidulans</i> uses the plant polyester suberin as carbon source. <i>BMC Genomics</i> , 2014 , 15, 613	4.5	21
184	Quantification of <i>Ehrlichia ruminantium</i> by real time PCR. <i>Veterinary Microbiology</i> , 2005 , 107, 273-8	3.3	21
183	Polymethoxylated Flavones from Orange Peels Inhibit Cell Proliferation in a 3D Cell Model of Human Colorectal Cancer. <i>Nutrition and Cancer</i> , 2018 , 70, 257-266	2.8	20
182	Combining stable insect cell lines with baculovirus-mediated expression for multi-HA influenza VLP production. <i>Vaccine</i> , 2018 , 36, 3112-3123	4.1	20

181	Metabolic pathways recruited in the production of a recombinant enveloped virus: mining targets for process and cell engineering. <i>Metabolic Engineering</i> , 2013 , 20, 131-45	9.7	20
180	Efficiency of inactivated vaccines against heartwater in Burkina Faso: impact of Ehrlichia ruminantium genetic diversity. <i>Vaccine</i> , 2010 , 28, 4573-80	4.1	20
179	Impact of physicochemical parameters on in vitro assembly and disassembly kinetics of recombinant triple-layered rotavirus-like particles. <i>Biotechnology and Bioengineering</i> , 2009 , 104, 674-86	4.9	20
178	Incorporation of a model protein into chitosan-bile salt microparticles. <i>International Journal of Pharmaceutics</i> , 2006 , 312, 119-30	6.5	20
177	Two different serum-free media and osmolality effect upon human 293 cell growth and adenovirus production. <i>Biotechnology Letters</i> , 2005 , 27, 1809-13	3	20
176	Retroviral vector performance in defined chromosomal Loci of modular packaging cell lines. <i>Human Gene Therapy</i> , 2010 , 21, 979-91	4.8	19
175	293 cell cycle synchronisation adenovirus vector production. <i>Biotechnology Progress</i> , 2009 , 25, 235-43	2.8	19
174	Relationship between retroviral vector membrane and vector stability. <i>Journal of General Virology</i> , 2006 , 87, 1349-1356	4.9	19
173	Process development for the mass production of Ehrlichia ruminantium. <i>Vaccine</i> , 2006 , 24, 1716-25	4.1	19
172	Carbon monoxide improves neuronal differentiation and yield by increasing the functioning and number of mitochondria. <i>Journal of Neurochemistry</i> , 2016 , 138, 423-35	6	18
171	Cellular targets for improved manufacturing of virus-based biopharmaceuticals in animal cells. <i>Trends in Biotechnology</i> , 2014 , 32, 602-7	15.1	18
170	Monitoring virus-like particle and viral protein production by intact cell MALDI-TOF mass spectrometry. <i>Talanta</i> , 2010 , 80, 1561-8	6.2	18
169	Retrovirus producer cell line metabolism: implications on viral productivity. <i>Applied Microbiology and Biotechnology</i> , 2006 , 72, 1125-35	5.7	18
168	Effect of ammonia production on intracellular pH: Consequent effect on adenovirus vector production. <i>Journal of Biotechnology</i> , 2007 , 129, 433-8	3.7	18
167	Immobilization of primary astrocytes and neurons for online monitoring of biochemical processes by NMR. <i>Developmental Neuroscience</i> , 1996 , 18, 478-83	2.2	18
166	Quantification of Metabolic Rearrangements During Neural Stem Cells Differentiation into Astrocytes by Metabolic Flux Analysis. <i>Neurochemical Research</i> , 2017 , 42, 244-253	4.6	17
165	Characterization of Ehrlichia ruminantium replication and release kinetics in endothelial cell cultures. <i>Veterinary Microbiology</i> , 2005 , 110, 87-96	3.3	17
164	Two-dimensional versus three-dimensional culture systems: Effects on growth and productivity of BHK cells. <i>Biotechnology and Bioengineering</i> , 1996 , 52, 429-32	4.9	17

163	Bioreactor-based 3D human myocardial ischemia/reperfusion in vitro model: a novel tool to unveil key paracrine factors upon acute myocardial infarction. <i>Translational Research</i> , 2020 , 215, 57-74	11	17
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- 1 Translation of liver stage activity of M5717, a Plasmodium β -elongation factor 2 inhibitor: from bench to bedside.. *Malaria Journal*, **2022**, 21, 151 3.6