Merja Penttil

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#	Paper	IF	Citations
220	A versatile transformation system for the cellulolytic filamentous fungus Trichoderma reesei. <i>Gene</i> , 1987 , 61, 155-64	3.8	509
219	A consensus yeast metabolic network reconstruction obtained from a community approach to systems biology. <i>Nature Biotechnology</i> , 2008 , 26, 1155-60	44.5	471
218	Hydrophobins: the protein-amphiphiles of filamentous fungi. FEMS Microbiology Reviews, 2005, 29, 877	'- 96 .1	453
217	Traffic jams reduce hydrolytic efficiency of cellulase on cellulose surface. <i>Science</i> , 2011 , 333, 1279-82	33.3	439
216	Transcriptional regulation of plant cell wall degradation by filamentous fungi. <i>FEMS Microbiology Reviews</i> , 2005 , 29, 719-39	15.1	374
215	Metabolic engineering applications to renewable resource utilization. <i>Current Opinion in Biotechnology</i> , 2000 , 11, 187-98	11.4	350
214	Swollenin, a Trichoderma reesei protein with sequence similarity to the plant expansins, exhibits disruption activity on cellulosic materials. <i>FEBS Journal</i> , 2002 , 269, 4202-11		320
213	Homology between cellulase genes of Trichoderma reesei: complete nucleotide sequence of the endoglucanase I gene. <i>Gene</i> , 1986 , 45, 253-63	3.8	267
212	Saccharomyces cerevisiae engineered to produce D-xylonate. <i>Applied Microbiology and Biotechnology</i> , 2010 , 88, 751-60	5.7	252
211	Xylose chemostat isolates of Saccharomyces cerevisiae show altered metabolite and enzyme levels compared with xylose, glucose, and ethanol metabolism of the original strain. <i>Applied Microbiology and Biotechnology</i> , 2005 , 67, 827-37	5.7	250
21 0	Bioconversion of d-xylose to d-xylonate with Kluyveromyces lactis. <i>Metabolic Engineering</i> , 2011 , 13, 383	3- 9 . 1 7	248
209	ACEII, a novel transcriptional activator involved in regulation of cellulase and xylanase genes of Trichoderma reesei. <i>Journal of Biological Chemistry</i> , 2001 , 276, 24309-14	5.4	243
208	Identification in the mould Hypocrea jecorina of a gene encoding an NADP(+): d-xylose dehydrogenase. <i>FEMS Microbiology Letters</i> , 2007 , 277, 249-53	2.9	230
207	High speed atomic force microscopy visualizes processive movement of Trichoderma reesei cellobiohydrolase I on crystalline cellulose. <i>Journal of Biological Chemistry</i> , 2009 , 284, 36186-36190	5.4	214
206	ACEI of Trichoderma reesei is a repressor of cellulase and xylanase expression. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 56-65	4.8	208
205	Atomic resolution structure of the HFBII hydrophobin, a self-assembling amphiphile. <i>Journal of Biological Chemistry</i> , 2004 , 279, 534-9	5.4	191
204	Conversion of xylose to ethanol by recombinant Saccharomyces cerevisiae: importance of xylulokinase (XKS1) and oxygen availability. <i>Metabolic Engineering</i> , 2001 , 3, 236-49	9.7	191

203	Engineering redox cofactor regeneration for improved pentose fermentation in Saccharomyces cerevisiae. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 5892-7	4.8	167	
202	Efficient secretion of two fungal cellobiohydrolases by Saccharomyces cerevisiae. <i>Gene</i> , 1988 , 63, 103-	12 3.8	161	
201	Xylitol production by recombinant Saccharomyces cerevisiae. <i>Bio/technology</i> , 1991 , 9, 1090-5		159	
200	Screening of candidate regulators for cellulase and hemicellulase production in Trichoderma reesei and identification of a factor essential for cellulase production. <i>Biotechnology for Biofuels</i> , 2014 , 7, 14	7.8	158	
199	Isolation of the ace1 gene encoding a Cys(2)-His(2) transcription factor involved in regulation of activity of the cellulase promoter cbh1 of Trichoderma reesei. <i>Journal of Biological Chemistry</i> , 2000 , 275, 5817-25	5.4	152	
198	Genetic modification of carbon catabolite repression in Trichoderma reesei for improved protein production. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 4853-60	4.8	145	
197	Xylose transport studies with xylose-utilizing Saccharomyces cerevisiae strains expressing heterologous and homologous permeases. <i>Applied Microbiology and Biotechnology</i> , 2007 , 74, 1041-52	5.7	141	
196	Effects of inactivation and constitutive expression of the unfolded- protein response pathway on protein production in the yeast Saccharomyces cerevisiae. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 2065-72	4.8	141	
195	cDNA cloning of a Trichoderma reesei cellulase and demonstration of endoglucanase activity by expression in yeast. <i>FEBS Journal</i> , 1997 , 249, 584-91		138	
194	Molecular cloning and analysis of the yeast flocculation gene FLO1. Yeast, 1994, 10, 211-25	3.4	137	
193	Expression patterns of ten hemicellulase genes of the filamentous fungus Trichoderma reesei on various carbon sources. <i>Journal of Biotechnology</i> , 1997 , 57, 167-179	3.7	135	
192	Expression in Trichoderma reesei and characterisation of a thermostable family 3 beta-glucosidase from the moderately thermophilic fungus Talaromyces emersonii. <i>Protein Expression and Purification</i> , 2004 , 38, 248-57	2	134	
191	Re-annotation of the CAZy genes of Trichoderma reesei and transcription in the presence of lignocellulosic substrates. <i>Microbial Cell Factories</i> , 2012 , 11, 134	6.4	124	
190	Enzymatic properties and intracellular localization of the novel Trichoderma reesei beta-glucosidase BGLII (cel1A). <i>Applied and Environmental Microbiology</i> , 2002 , 68, 4546-53	4.8	122	
189	The hydrophobins HFBI and HFBII from Trichoderma reesei showing efficient interactions with nonionic surfactants in aqueous two-phase systems. <i>Biomacromolecules</i> , 2001 , 2, 511-7	6.9	122	
188	A novel, small endoglucanase gene, egl5, from Trichoderma reesei isolated by expression in yeast. <i>Molecular Microbiology</i> , 1994 , 13, 219-28	4.1	122	
187	Interaction and comparison of a class I hydrophobin from Schizophyllum commune and class II hydrophobins from Trichoderma reesei. <i>Biomacromolecules</i> , 2006 , 7, 1295-301	6.9	121	
186	High level secretion of cellobiohydrolases by Saccharomyces cerevisiae. <i>Biotechnology for Biofuels</i> , 2011 , 4, 30	7.8	119	

185	Transformation system for Hypocrea jecorina (Trichoderma reesei) that favors homologous integration and employs reusable bidirectionally selectable markers. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 114-21	4.8	119
184	Laccase from the white-rot fungus Trametes versicolor: cDNA cloning of lcc1 and expression in Pichia pastoris. <i>Current Genetics</i> , 1997 , 32, 425-30	2.9	119
183	Yeast oligo-mediated genome engineering (YOGE). ACS Synthetic Biology, 2013, 2, 741-9	5.7	116
182	Transcriptional regulation of xyn1, encoding xylanase I, in Hypocrea jecorina. <i>Eukaryotic Cell</i> , 2006 , 5, 447-56		116
181	The effects of drugs inhibiting protein secretion in the filamentous fungus Trichoderma reesei. Evidence for down-regulation of genes that encode secreted proteins in the stressed cells. <i>Journal of Biological Chemistry</i> , 2003 , 278, 45011-20	5.4	113
180	Activation mechanisms of the HAC1-mediated unfolded protein response in filamentous fungi. <i>Molecular Microbiology</i> , 2003 , 47, 1149-61	4.1	112
179	Efficient production of L-lactic acid from xylose by Pichia stipitis. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 117-23	4.8	109
178	Structural hierarchy in molecular films of two class II hydrophobins. <i>Biochemistry</i> , 2003 , 42, 5253-8	3.2	109
177	Homologous expression and characterization of Cel61A (EG IV) of Trichoderma reesei. <i>FEBS Journal</i> , 2001 , 268, 6498-507		102
176	Efficient purification of recombinant proteins using hydrophobins as tags in surfactant-based two-phase systems. <i>Biochemistry</i> , 2004 , 43, 11873-82	3.2	101
175	Recent advances in the malting and brewing industry1Based on a lecture held at the symposium Diotechnology in advanced food and feed processing at the 8th European Congress on Biotechnology (ECB8) in Budapest, Hungary, August 1997.1. <i>Journal of Biotechnology</i> , 1998 , 65, 85-98	3.7	100
174	Surface adhesion of fusion proteins containing the hydrophobins HFBI and HFBII from Trichoderma reesei. <i>Protein Science</i> , 2002 , 11, 2257-66	6.3	99
173	Lipid production in batch and fed-batch cultures of Rhodosporidium toruloides from 5 and 6 carbon carbohydrates. <i>BMC Biotechnology</i> , 2012 , 12, 26	3.5	96
172	Monitoring of transcriptional regulation in Pichia pastoris under protein production conditions. <i>BMC Genomics</i> , 2007 , 8, 179	4.5	96
171	Improvement of foreign-protein production in Aspergillus niger var. awamori by constitutive induction of the unfolded-protein response. <i>Applied and Environmental Microbiology</i> , 2003 , 69, 6979-86	4.8	96
170	Endogenous xylose pathway in Saccharomyces cerevisiae. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 3681-6	4.8	93
169	Oxygen dependence of metabolic fluxes and energy generation of Saccharomyces cerevisiae CEN.PK113-1A. <i>BMC Systems Biology</i> , 2008 , 2, 60	3.5	91
168	Metabolic flux analysis of xylose metabolism in recombinant Saccharomyces cerevisiae using continuous culture. <i>Metabolic Engineering</i> , 2003 , 5, 16-31	9.7	90

167	Enzyme production by recombinant Trichoderma reesei strains. Journal of Biotechnology, 1991, 17, 35-4	19 3.7	90	
166	Production of ethanol from L-arabinose by Saccharomyces cerevisiae containing a fungal L-arabinose pathway. <i>FEMS Yeast Research</i> , 2003 , 3, 185-9	3.1	89	
165	Glycolic acid production in the engineered yeasts Saccharomyces cerevisiae and Kluyveromyces lactis. <i>Microbial Cell Factories</i> , 2013 , 12, 82	6.4	84	
164	Swollenin aids in the amorphogenesis step during the enzymatic hydrolysis of pretreated biomass. <i>Bioresource Technology</i> , 2013 , 142, 498-503	11	83	
163	The effect of specific growth rate on protein synthesis and secretion in the filamentous fungus Trichoderma reesei. <i>Microbiology (United Kingdom)</i> , 2005 , 151, 135-143	2.9	83	
162	The three-dimensional structure of a Trichoderma reesei beta-mannanase from glycoside hydrolase family 5. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2000 , 56, 3-13		80	
161	Genetic and biochemical characterization of the Trichoderma reesei hydrophobin HFBI. <i>FEBS Journal</i> , 1996 , 235, 248-55		80	
160	Integrated multilaboratory systems biology reveals differences in protein metabolism between two reference yeast strains. <i>Nature Communications</i> , 2010 , 1, 145	17.4	78	
159	The role of xylulokinase in Saccharomyces cerevisiae xylulose catabolism. <i>FEMS Microbiology Letters</i> , 2000 , 190, 39-43	2.9	77	
158	Cloning and expression of a fungal L-arabinitol 4-dehydrogenase gene. <i>Journal of Biological Chemistry</i> , 2001 , 276, 40631-7	5.4	76	
157	The missing link in the fungal L-arabinose catabolic pathway, identification of the L-xylulose reductase gene. <i>Biochemistry</i> , 2002 , 41, 6432-7	3.2	76	
156	Acetyl xylan esterase from Trichoderma reesei contains an active-site serine residue and a cellulose-binding domain. <i>FEBS Journal</i> , 1996 , 237, 553-60		76	
155	Common features and interesting differences in transcriptional responses to secretion stress in the fungi Trichoderma reesei and Saccharomyces cerevisiae. <i>BMC Genomics</i> , 2006 , 7, 32	4.5	75	
154	Genetic engineering of Trichoderma to produce strains with novel cellulase profiles. <i>Enzyme and Microbial Technology</i> , 1991 , 13, 227-33	3.8	75	
153	Differential expression of the vegetative and spore-bound hydrophobins of Trichoderma reeseicloning and characterization of the hfb2 gene. <i>FEBS Journal</i> , 1997 , 248, 415-23		74	
152	Regulation of xylose metabolism in recombinant Saccharomyces cerevisiae. <i>Microbial Cell Factories</i> , 2008 , 7, 18	6.4	74	
151	Evidence that the gene YLR070c of Saccharomyces cerevisiae encodes a xylitol dehydrogenase. <i>FEBS Letters</i> , 1999 , 457, 135-8	3.8	74	
150	Challenges in enzymatic hydrolysis and fermentation of pretreated Arundo donax revealed by a comparison between SHF and SSF. <i>Process Biochemistry</i> , 2012 , 47, 1452-1459	4.8	73	

149	Production of recombinant proteins in the filamentous fungus Trichoderma reesei. <i>Current Opinion in Biotechnology</i> , 1995 , 6, 534-7	11.4	73
148	Three alpha-galactosidase genes of Trichoderma reesei cloned by expression in yeast. <i>FEBS Journal</i> , 1996 , 240, 104-11		7 ²
147	Microbial D-xylonate production. Applied Microbiology and Biotechnology, 2012, 96, 1-8	5.7	71
146	Efficient production of antibody fragments by the filamentous fungus Trichoderma reesei. <i>Nature Biotechnology</i> , 1993 , 11, 591-5	44.5	70
145	Large-scale separation and production of engineered proteins, designed for facilitated recovery in detergent-based aqueous two-phase extraction systems. <i>Process Biochemistry</i> , 2004 , 39, 889-896	4.8	69
144	Array comparative genomic hybridization analysis of Trichoderma reesei strains with enhanced cellulase production properties. <i>BMC Genomics</i> , 2010 , 11, 441	4.5	68
143	The Trichoderma reesei hydrophobin genes hfb1 and hfb2 have diverse functions in fungal development. <i>FEMS Microbiology Letters</i> , 2005 , 253, 281-8	2.9	67
142	Metabolic engineering of Saccharomyces cerevisiae for bioconversion of D-xylose to D-xylonate. <i>Metabolic Engineering</i> , 2012 , 14, 427-36	9.7	65
141	Endoplasmic reticulum stress leads to the selective transcriptional downregulation of the glucoamylase gene in Aspergillus niger. <i>Molecular Microbiology</i> , 2004 , 53, 1731-42	4.1	65
140	Swollenin from Trichoderma reesei exhibits hydrolytic activity against cellulosic substrates with features of both endoglucanases and cellobiohydrolases. <i>Bioresource Technology</i> , 2015 , 181, 105-13	11	60
139	Comparative genome-scale reconstruction of gapless metabolic networks for present and ancestral species. <i>PLoS Computational Biology</i> , 2014 , 10, e1003465	5	59
138	Central carbon metabolism of Saccharomyces cerevisiae in anaerobic, oxygen-limited and fully aerobic steady-state conditions and following a shift to anaerobic conditions. <i>FEMS Yeast Research</i> , 2008 , 8, 140-54	3.1	59
137	Xylanase XYN IV from Trichoderma reesei showing exo- and endo-xylanase activity. <i>FEBS Journal</i> , 2013 , 280, 285-301	5.7	58
136	Metabolic engineering of fungal strains for conversion of D-galacturonate to meso-galactarate. <i>Applied and Environmental Microbiology</i> , 2010 , 76, 169-75	4.8	58
135	Low pH D-xylonate production with Pichia kudriavzevii. <i>Bioresource Technology</i> , 2013 , 133, 555-62	11	57
134	Cloning and characterization of the glucosidase II alpha subunit gene of Trichoderma reesei: a frameshift mutation results in the aberrant glycosylation profile of the hypercellulolytic strain Rut-C30. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 2910-24	4.8	57
133	Role of Ace2 (Activator of Cellulases 2) within the xyn2 transcriptosome of Hypocrea jecorina. <i>Fungal Genetics and Biology</i> , 2008 , 45, 436-45	3.9	56
132	A novel NADH-linked l-xylulose reductase in the l-arabinose catabolic pathway of yeast. <i>Journal of Biological Chemistry</i> , 2004 , 279, 14746-51	5.4	55

131	Correlation of gene expression and protein production rate - a system wide study. <i>BMC Genomics</i> , 2011 , 12, 616	4.5	54
130	Pilot scale production of a heterologous Trichoderma reesei cellulase by Saccharomyces cerevisiae. <i>Journal of Biotechnology</i> , 1990 , 13, 267-78	3.7	54
129	Production and applications of carbohydrate-derived sugar acids as generic biobased chemicals. <i>Critical Reviews in Biotechnology</i> , 2016 , 36, 904-16	9.4	53
128	Spatially segregated SNARE protein interactions in living fungal cells. <i>Journal of Biological Chemistry</i> , 2007 , 282, 22775-85	5.4	53
127	Role of the bga1-encoded extracellular {beta}-galactosidase of Hypocrea jecorina in cellulase induction by lactose. <i>Applied and Environmental Microbiology</i> , 2005 , 71, 851-7	4.8	52
126	Molecular cloning and enzymatic characterization of a Trichoderma reesei 1,2-alpha-D-mannosidase. <i>Journal of Biotechnology</i> , 2000 , 77, 255-63	3.7	52
125	Identification of the first fungal NADP-GAPDH from Kluyveromyces lactis. <i>Biochemistry</i> , 2002 , 41, 13833	3-382	51
124	Proteome analysis of recombinant xylose-fermenting Saccharomyces cerevisiae. <i>Yeast</i> , 2003 , 20, 295-31	14,4	46
123	Isolation of Trichoderma reesei genes highly expressed on glucose-containing media: characterization of the tef1 gene encoding translation elongation factor 1 alpha. <i>Gene</i> , 1993 , 136, 313-8	3 ^{3.8}	46
122	Direct identification of hydrophobins and their processing in Trichoderma using intact-cell MALDI-TOF MS. <i>FEBS Journal</i> , 2007 , 274, 841-52	5.7	45
121	Enabling Low Cost Biopharmaceuticals: A Systematic Approach to Delete Proteases from a Well-Known Protein Production Host Trichoderma reesei. <i>PLoS ONE</i> , 2015 , 10, e0134723	3.7	45
120	Production of ethylene glycol or glycolic acid from D-xylose in Saccharomyces cerevisiae. <i>Applied Microbiology and Biotechnology</i> , 2017 , 101, 8151-8163	5.7	43
119	Low oxygen levels as a trigger for enhancement of respiratory metabolism in Saccharomyces cerevisiae. <i>BMC Genomics</i> , 2009 , 10, 461	4.5	43
118	Engineering filamentous fungi for conversion of D-galacturonic acid to L-galactonic acid. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 8676-83	4.8	42
117	Transcription analysis of recombinant saccharomyces cerevisiae reveals novel responses to xylose. <i>Applied Biochemistry and Biotechnology</i> , 2006 , 128, 237-61	3.2	42
116	The missing link in the fungal D-galacturonate pathway: identification of the L-threo-3-deoxy-hexulosonate aldolase. <i>Journal of Biological Chemistry</i> , 2007 , 282, 26195-201	5.4	41
115	A novel two-step extraction method with detergent/polymer systems for primary recovery of the fusion protein endoglucanase I-hydrophobin I. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2002 , 1569, 139-50	4	41
114	A universal gene expression system for fungi. <i>Nucleic Acids Research</i> , 2018 , 46, e111	20.1	41

113	Identification in the mold Hypocrea jecorina of the first fungal D-galacturonic acid reductase. <i>Biochemistry</i> , 2005 , 44, 11234-40	3.2	40
112	Identification in Agrobacterium tumefaciens of the D-galacturonic acid dehydrogenase gene. <i>Applied Microbiology and Biotechnology</i> , 2010 , 86, 901-9	5.7	39
111	Use of matrix-assisted laser desorption/ionization time-of-flight mass mapping and nanospray liquid chromatography/electrospray ionization tandem mass spectrometry sequence tag analysis for high sensitivity identification of yeast proteins separated by two-dimensional gel	2.2	39
110	electrophoresis. <i>Rapid Communications in Mass Spectrometry</i> , 2001 , 15, 1685-92 Overexpression of PAD1 and FDC1 results in significant cinnamic acid decarboxylase activity in Saccharomyces cerevisiae. <i>AMB Express</i> , 2015 , 5, 12	4.1	38
109	Comparison of protein coding gene contents of the fungal phyla Pezizomycotina and Saccharomycotina. <i>BMC Genomics</i> , 2007 , 8, 325	4.5	38
108	Dual relationships of xylitol and alcohol dehydrogenases in families of two protein types. <i>FEBS Letters</i> , 1993 , 324, 9-14	3.8	38
107	Influence of growth temperature on the production of antibody Fab fragments in different microbes: a host comparative analysis. <i>Biotechnology Progress</i> , 2011 , 27, 38-46	2.8	37
106	L-galactonate dehydratase is part of the fungal path for D-galacturonic acid catabolism. <i>Molecular Microbiology</i> , 2006 , 61, 1060-8	4.1	37
105	Production of L-lactic acid by the yeast Candida sonorensis expressing heterologous bacterial and fungal lactate dehydrogenases. <i>Microbial Cell Factories</i> , 2013 , 12, 53	6.4	36
104	Identification of an L-arabinose reductase gene in Aspergillus niger and its role in L-arabinose catabolism. <i>Journal of Biological Chemistry</i> , 2010 , 285, 23622-8	5.4	36
103	Rapid and multiplexed transcript analysis of microbial cultures using capillary electophoresis-detectable oligonucleotide probe pools. <i>Journal of Microbiological Methods</i> , 2006 , 65, 404-16	2.8	35
102	Transcriptional monitoring of steady state and effects of anaerobic phases in chemostat cultures of the filamentous fungus Trichoderma reesei. <i>BMC Genomics</i> , 2006 , 7, 247	4.5	34
101	The use of carbohydrate binding modules (CBMs) to monitor changes in fragmentation and cellulose fiber surface morphology during cellulase- and Swollenin-induced deconstruction of lignocellulosic substrates. <i>Journal of Biological Chemistry</i> , 2015 , 290, 2938-45	5.4	33
100	Metabolic engineering of the fungal D-galacturonate pathway for L-ascorbic acid production. <i>Microbial Cell Factories</i> , 2015 , 14, 2	6.4	33
99	Enzymes for the NADPH-dependent reduction of dihydroxyacetone and D-glyceraldehyde and L-glyceraldehyde in the mould Hypocrea jecorina. <i>FEBS Journal</i> , 2006 , 273, 4229-35	5.7	33
98	In vivo synthesis of complex N-glycans by expression of human N-acetylglucosaminyltransferase I in the filamentous fungus Trichoderma reesei. <i>FEBS Letters</i> , 1999 , 452, 365-70	3.8	33
97	Protein production and induction of the unfolded protein response in Trichoderma reesei strain Rut-C30 and its transformant expressing endoglucanase I with a hydrophobic tag. <i>Biotechnology and Bioengineering</i> , 2005 , 89, 335-44	4.9	32
96	Monitoring the kinetics of glycoprotein synthesis and secretion in the filamentous fungus Trichoderma reesei: cellobiohydrolase I (CBHI) as a model protein. <i>Microbiology (United Kingdom)</i> , 2000 , 146 (Pt 1), 223-232	2.9	32

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95	Expression of Trichoderma reesei cellulases CBHI and EGI in Ashbya gossypii. <i>Applied Microbiology and Biotechnology</i> , 2010 , 87, 1437-46	5.7	31	
94	Capillary electrophoresis for the monitoring of carboxylic acid production by Gluconobacter oxydans. <i>Journal of Chromatography A</i> , 2010 , 1217, 1537-42	4.5	31	
93	Phase transitions as intermediate steps in the formation of molecularly engineered protein fibers. <i>Communications Biology</i> , 2018 , 1, 86	6.7	31	
92	Engineering chimeric thermostable GH7 cellobiohydrolases in Saccharomyces cerevisiae. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 2991-3001	5.7	30	
91	The diverse role of Pdr12 in resistance to weak organic acids. <i>Yeast</i> , 2014 , 31, 219-32	3.4	30	
90	Identification and quantitation of phosphorus metabolites in yeast neutral pH extracts by nuclear magnetic resonance spectroscopy. <i>Analytical Biochemistry</i> , 1999 , 272, 71-9	3.1	30	
89	Metabolic engineering of Saccharomyces cerevisiae for conversion of D-glucose to xylitol and other five-carbon sugars and sugar alcohols. <i>Applied and Environmental Microbiology</i> , 2007 , 73, 5471-6	4.8	29	
88	Expression of a fungal hydrophobin in the Saccharomyces cerevisiae cell wall: effect on cell surface properties and immobilization. <i>Applied and Environmental Microbiology</i> , 2002 , 68, 3385-91	4.8	29	
87	Noninvasive high-throughput single-cell analysis of the intracellular pH of Saccharomyces cerevisiae by ratiometric flow cytometry. <i>Applied and Environmental Microbiology</i> , 2013 , 79, 7179-87	4.8	28	
86	Expression of Vitreoscilla hemoglobin improves the metabolism of xylose in recombinant yeast Saccharomyces cerevisiae under low oxygen conditions. <i>Enzyme and Microbial Technology</i> , 2006 , 39, 6-1	43.8	28	
85	Characterization of secretory genes ypt1/yptA and nsf1/nsfA from two filamentous fungi: induction of secretory pathway genes of Trichoderma reesei under secretion stress conditions. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 459-67	4.8	28	
84	Capillary electrophoresis with laser-induced fluorescence detection for studying amino acid uptake by yeast during beer fermentation. <i>Talanta</i> , 2015 , 131, 366-71	6.2	26	
83	Characterisation of the gene cluster for l-rhamnose catabolism in the yeast Scheffersomyces (Pichia) stipitis. <i>Gene</i> , 2012 , 492, 177-85	3.8	25	
82	Cloning of two genes (LAT1,2) encoding specific L: -arabinose transporters of the L: -arabinose fermenting yeast Ambrosiozyma monospora. <i>Applied Biochemistry and Biotechnology</i> , 2011 , 164, 604-1	1 ^{3.2}	25	
81	Crystal structure of uronate dehydrogenase from Agrobacterium tumefaciens. <i>Journal of Biological Chemistry</i> , 2011 , 286, 27294-300	5.4	25	
80	Characterization of a novel Agrobacterium tumefaciens galactarolactone cycloisomerase enzyme for direct conversion of D-galactarolactone to 3-deoxy-2-keto-L-threo-hexarate. <i>Journal of Biological Chemistry</i> , 2012 , 287, 17662-17671	5.4	25	
79	Synthetic Transcription Amplifier System for Orthogonal Control of Gene Expression in Saccharomyces cerevisiae. <i>PLoS ONE</i> , 2016 , 11, e0148320	3.7	25	
78	The T rueTL-xylulose reductase of filamentous fungi identified in Aspergillus niger. <i>FEBS Letters</i> , 2010 , 584, 3540-4	3.8	24	

77	Transcription of hexose transporters of Saccharomyces cerevisiae is affected by change in oxygen provision. <i>BMC Microbiology</i> , 2008 , 8, 53	4.5	24
76	Overexpression of an endochitinase gene (ThEn-42) in Trichoderma atroviride for increased production of antifungal enzymes and enhanced antagonist action against pathogenic fungi. <i>Applied Biochemistry and Biotechnology</i> , 2007 , 142, 81-94	3.2	24
75	Dynamic flux balance analysis of the metabolism of Saccharomyces cerevisiae during the shift from fully respirative or respirofermentative metabolic states to anaerobiosis. <i>FEBS Journal</i> , 2012 , 279, 3338	3-5 <i>:</i> 7	23
74	Identification of the galactitol dehydrogenase, LadB, that is part of the oxido-reductive D-galactose catabolic pathway in Aspergillus niger. <i>Fungal Genetics and Biology</i> , 2012 , 49, 152-9	3.9	23
73	A short-chain dehydrogenase gene from Pichia stipitis having D-arabinitol dehydrogenase activity. <i>Yeast</i> , 1995 , 11, 839-47	3.4	23
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31 30 29	Trichoderma reesei rho3 a homologue of yeast RH03 suppresses the growth defect of yeast sec15-1 mutation. <i>Current Genetics</i> , 2001 , 40, 119-27 Expression and characterisation of chymosin pH optima mutants produced in Trichoderma reesei. <i>Journal of Biotechnology</i> , 1993 , 28, 69-83 Yeast as a tool to express sugar acid transporters with biotechnological interest. <i>FEMS Yeast Research</i> , 2017 , 17, Structure and function of Caulobacter crescentus aldose-aldose oxidoreductase. <i>Biochemical</i>	3.7	10
31 30 29 28	Trichoderma reesei rho3 a homologue of yeast RH03 suppresses the growth defect of yeast sec15-1 mutation. <i>Current Genetics</i> , 2001 , 40, 119-27 Expression and characterisation of chymosin pH optima mutants produced in Trichoderma reesei. <i>Journal of Biotechnology</i> , 1993 , 28, 69-83 Yeast as a tool to express sugar acid transporters with biotechnological interest. <i>FEMS Yeast Research</i> , 2017 , 17, Structure and function of Caulobacter crescentus aldose-aldose oxidoreductase. <i>Biochemical Journal</i> , 2015 , 472, 297-307 Primary recovery of a genetically engineered Trichoderma reesei endoglucanase I (Cel 7B) fusion	3.7 3.1 3.8	10 10 9
31 30 29 28 27	Trichoderma reesei rho3 a homologue of yeast RH03 suppresses the growth defect of yeast sec15-1 mutation. <i>Current Genetics</i> , 2001 , 40, 119-27 Expression and characterisation of chymosin pH optima mutants produced in Trichoderma reesei. <i>Journal of Biotechnology</i> , 1993 , 28, 69-83 Yeast as a tool to express sugar acid transporters with biotechnological interest. <i>FEMS Yeast Research</i> , 2017 , 17, Structure and function of Caulobacter crescentus aldose-aldose oxidoreductase. <i>Biochemical Journal</i> , 2015 , 472, 297-307 Primary recovery of a genetically engineered Trichoderma reesei endoglucanase I (Cel 7B) fusion protein in cloud point extraction systems. <i>Biotechnology and Bioengineering</i> , 2002 , 78, 385-94 Extraction of endoglucanase I (Ce17B) fusion proteins from Trichoderma reesei culture filtrate in a poly(ethylene glycol)-phosphate aqueous two-phase system. <i>Journal of Chromatography A</i> , 2002 ,	3.7 3.1 3.8 4.9	10 10 9 9

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