

# Martin Fussenegger

## List of Publications by Citations

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293  
papers

14,654  
citations

65  
h-index

107  
g-index

303  
ext. papers

16,374  
ext. citations

12  
avg, IF

6.98  
L-index

#	Paper	IF	Citations
293	Method for generation of homogeneous multicellular tumor spheroids applicable to a wide variety of cell types. <i>Biotechnology and Bioengineering</i> , <b>2003</b> , 83, 173-80	4.9	679
292	A tunable synthetic mammalian oscillator. <i>Nature</i> , <b>2009</b> , 457, 309-12	50.4	465
291	A synthetic optogenetic transcription device enhances blood-glucose homeostasis in mice. <i>Science</i> , <b>2011</b> , 332, 1565-8	33.3	358
290	Streptogramin-based gene regulation systems for mammalian cells. <i>Nature Biotechnology</i> , <b>2000</b> , 18, 1203-8	44.5	303
289	An engineered epigenetic transgene switch in mammalian cells. <i>Nature Biotechnology</i> , <b>2004</b> , 22, 867-70	44.5	289
288	Programmable single-cell mammalian biocomputers. <i>Nature</i> , <b>2012</b> , 487, 123-7	50.4	281
287	Emerging biomedical applications of synthetic biology. <i>Nature Reviews Genetics</i> , <b>2011</b> , 13, 21-35	30.1	254
286	Controlled proliferation by multigene metabolic engineering enhances the productivity of Chinese hamster ovary cells. <i>Nature Biotechnology</i> , <b>1998</b> , 16, 468-72	44.5	250
285	Microscale tissue engineering using gravity-enforced cell assembly. <i>Trends in Biotechnology</i> , <b>2004</b> , 22, 195-202	15.1	238
284	Designer exosomes produced by implanted cells intracerebrally deliver therapeutic cargo for Parkinson's disease treatment. <i>Nature Communications</i> , <b>2018</b> , 9, 1305	17.4	232
283	Hysteresis in a synthetic mammalian gene network. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 9517-22	11.5	219
282	Influence of low temperature on productivity, proteome and protein phosphorylation of CHO cells. <i>Biotechnology and Bioengineering</i> , <b>1999</b> , 63, 573-82	4.9	208
281	Self-sufficient control of urate homeostasis in mice by a synthetic circuit. <i>Nature Biotechnology</i> , <b>2010</b> , 28, 355-60	44.5	202
280	A mathematical model of caspase function in apoptosis. <i>Nature Biotechnology</i> , <b>2000</b> , 18, 768-74	44.5	196
279	Drug-sensing hydrogels for the inducible release of biopharmaceuticals. <i>Nature Materials</i> , <b>2008</b> , 7, 800-427		188
278	Macrolide-based transgene control in mammalian cells and mice. <i>Nature Biotechnology</i> , <b>2002</b> , 20, 901-7	44.5	187
277	Synthetic ecosystems based on airborne inter- and intrakingdom communication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 10435-40	11.5	160

276	BioLogic gates enable logical transcription control in mammalian cells. <i>Biotechnology and Bioengineering</i> , <b>2004</b> , 87, 478-84	4.9	155
275	Xbp1-based engineering of secretory capacity enhances the productivity of Chinese hamster ovary cells. <i>Metabolic Engineering</i> , <b>2006</b> , 8, 264-72	9.7	148
274	The NoRC complex mediates the heterochromatin formation and stability of silent rRNA genes and centromeric repeats. <i>EMBO Journal</i> , <b>2010</b> , 29, 2135-46	13	140
273	The impact of mammalian gene regulation concepts on functional genomic research, metabolic engineering, and advanced gene therapies. <i>Biotechnology Progress</i> , <b>2001</b> , 17, 1-51	2.8	140
272	Heat-stable oral alga-based vaccine protects mice from <i>Staphylococcus aureus</i> infection. <i>Journal of Biotechnology</i> , <b>2010</b> , 145, 273-80	3.7	136
271	A synthetic mammalian gene circuit reveals antituberculosis compounds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 9994-8	11.5	133
270	Design of custom-shaped vascularized tissues using microtissue spheroids as minimal building units. <i>Tissue Engineering</i> , <b>2006</b> , 12, 2151-60		133
269	Cell-mimetic designer cells provide closed-loop glycemic control. <i>Science</i> , <b>2016</b> , 354, 1296-1301	33.3	132
268	SAMY, a novel mammalian reporter gene derived from <i>Bacillus stearothermophilus</i> alpha-amylase. <i>Gene</i> , <b>2002</b> , 282, 19-31	3.8	128
267	Engineering synergy in biotechnology. <i>Nature Chemical Biology</i> , <b>2014</b> , 10, 319-22	11.7	126
266	An overview of the diverse roles of G-protein coupled receptors (GPCRs) in the pathophysiology of various human diseases. <i>Biotechnology Advances</i> , <b>2013</b> , 31, 1676-94	17.8	119
265	A synthetic time-delay circuit in mammalian cells and mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 2643-8	11.5	117
264	Design of artificial myocardial microtissues. <i>Tissue Engineering</i> , <b>2004</b> , 10, 201-14		115
263	Gas-inducible transgene expression in mammalian cells and mice. <i>Nature Biotechnology</i> , <b>2004</b> , 22, 1440-4	44.5	112
262	Designing cell function: assembly of synthetic gene circuits for cell biology applications. <i>Nature Reviews Molecular Cell Biology</i> , <b>2018</b> , 19, 507-525	48.7	111
261	Smartphone-controlled optogenetically engineered cells enable semiautomatic glucose homeostasis in diabetic mice. <i>Science Translational Medicine</i> , <b>2017</b> , 9,	17.5	109
260	From gene switches to mammalian designer cells: present and future prospects. <i>Trends in Biotechnology</i> , <b>2013</b> , 31, 155-68	15.1	104
259	Synthetic Biology-The Synthesis of Biology. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 6396-6416	46.4	103

258	A novel cytostatic process enhances the productivity of Chinese hamster ovary cells. <i>Biotechnology and Bioengineering</i> , <b>1997</b> , 55, 927-39	4.9	101
257	Scaffold-free cell delivery for use in regenerative medicine. <i>Advanced Drug Delivery Reviews</i> , <b>2010</b> , 62, 753-64	18.5	100
256	Pharmaceutically controlled designer circuit for the treatment of the metabolic syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 141-6	11.5	96
255	A closed-loop synthetic gene circuit for the treatment of diet-induced obesity in mice. <i>Nature Communications</i> , <b>2013</b> , 4, 2825	17.4	93
254	Controlling transgene expression in subcutaneous implants using a skin lotion containing the apple metabolite phloretin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 10638-43	11.5	89
253	Higher productivity of growth-arrested Chinese hamster ovary cells expressing the cyclin-dependent kinase inhibitor p27. <i>Biotechnology Progress</i> , <b>1998</b> , 14, 705-13	2.8	88
252	A programmable synthetic lineage-control network that differentiates human iPSCs into glucose-sensitive insulin-secreting beta-like cells. <i>Nature Communications</i> , <b>2016</b> , 7, 11247	17.4	87
251	Mind-controlled transgene expression by a wireless-powered optogenetic designer cell implant. <i>Nature Communications</i> , <b>2014</b> , 5, 5392	17.4	87
250	A synthetic multifunctional mammalian pH sensor and CO <sub>2</sub> transgene-control device. <i>Molecular Cell</i> , <b>2014</b> , 55, 397-408	17.6	87
249	Implantable synthetic cytokine converter cells with AND-gate logic treat experimental psoriasis. <i>Science Translational Medicine</i> , <b>2015</b> , 7, 318ra201	17.5	87
248	Impact of coexpression and coamplification of sICAM and antiapoptosis determinants bcl-2/bcl-x(L) on productivity, cell survival, and mitochondria number in CHO-DG44 grown in suspension and serum-free media. <i>Biotechnology and Bioengineering</i> , <b>2002</b> , 80, 706-16	4.9	85
247	Mammalian synthetic biology: engineering of sophisticated gene networks. <i>Journal of Biotechnology</i> , <b>2007</b> , 130, 329-45	3.7	84
246	Advanced modular self-inactivating lentiviral expression vectors for multigene interventions in mammalian cells and in vivo transduction. <i>Nucleic Acids Research</i> , <b>2002</b> , 30, e113	20.1	84
245	Synthetic two-way communication between mammalian cells. <i>Nature Biotechnology</i> , <b>2012</b> , 30, 991-6	44.5	83
244	Pharmacologic transgene control systems for gene therapy. <i>Journal of Gene Medicine</i> , <b>2006</b> , 8, 535-56	3.5	83
243	Molecular regulation of cell-cycle progression and apoptosis in mammalian cells: implications for biotechnology. <i>Biotechnology Progress</i> , <b>1998</b> , 14, 807-33	2.8	81
242	Engineering of synthetic intercellular communication systems. <i>Metabolic Engineering</i> , <b>2013</b> , 16, 33-41	9.7	79
241	A general design strategy for protein-responsive riboswitches in mammalian cells. <i>Nature Methods</i> , <b>2014</b> , 11, 1154-60	21.6	77

240	A synthetic low-frequency mammalian oscillator. <i>Nucleic Acids Research</i> , <b>2010</b> , 38, 2702-11	20.1	77
239	VEGF profiling and angiogenesis in human microtissues. <i>Journal of Biotechnology</i> , <b>2005</b> , 118, 213-29	3.7	75
238	The food additive vanillic acid controls transgene expression in mammalian cells and mice. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, e37	20.1	73
237	Ectopic expression of human mTOR increases viability, robustness, cell size, proliferation, and antibody production of chinese hamster ovary cells. <i>Biotechnology and Bioengineering</i> , <b>2011</b> , 108, 853-66 <sup>4.9</sup>	4.9	72
236	Streptomyces-derived quorum-sensing systems engineered for adjustable transgene expression in mammalian cells and mice. <i>Nucleic Acids Research</i> , <b>2003</b> , 31, e71	20.1	70
235	An engineered mammalian band-pass network. <i>Nucleic Acids Research</i> , <b>2010</b> , 38, e174	20.1	68
234	A designer network coordinating bovine artificial insemination by ovulation-triggered release of implanted sperms. <i>Journal of Controlled Release</i> , <b>2011</b> , 150, 23-9	11.7	67
233	A cell-penetrating artificial metalloenzyme regulates a gene switch in a designer mammalian cell. <i>Nature Communications</i> , <b>2018</b> , 9, 1943	17.4	67
232	Generalized extracellular molecule sensor platform for programming cellular behavior. <i>Nature Chemical Biology</i> , <b>2018</b> , 14, 723-729	11.7	66
231	Molecular engineering of exocytic vesicle traffic enhances the productivity of Chinese hamster ovary cells. <i>Biotechnology and Bioengineering</i> , <b>2009</b> , 102, 1170-81	4.9	66
230	pTRIDENT, a novel vector family for tricistronic gene expression in mammalian cells. <i>Biotechnology and Bioengineering</i> , <b>1998</b> , 57, 1-10	4.9	65
229	Broad-spectrum protein biosensors for class-specific detection of antibiotics. <i>Biotechnology and Bioengineering</i> , <b>2005</b> , 89, 9-17	4.9	65
228	Self-adjusting synthetic gene circuit for correcting insulin resistance. <i>Nature Biomedical Engineering</i> , <b>2017</b> , 1, 0005	19	62
227	Reward-based hypertension control by a synthetic brain-dopamine interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 18150-5	11.5	60
226	Dual-regulated expression of C/EBP-alpha and BMP-2 enables differential differentiation of C2C12 cells into adipocytes and osteoblasts. <i>Nucleic Acids Research</i> , <b>2004</b> , 32, e1	20.1	60
225	Artificial regulatory networks and cascades for discrete multilevel transgene control in mammalian cells. <i>Biotechnology and Bioengineering</i> , <b>2003</b> , 83, 810-20	4.9	60
224	Comparative analysis of two controlled proliferation strategies regarding product quality, influence on tetracycline-regulated gene expression, and productivity. <i>Biotechnology and Bioengineering</i> , <b>2001</b> , 72, 592-602	4.9	60
223	The growth factor inhibitor suramin reduces apoptosis and cell aggregation in protein-free CHO cell batch cultures. <i>Biotechnology Progress</i> , <b>2000</b> , 16, 319-25	2.8	59

222	Inducible product gene expression technology tailored to bioprocess engineering. <i>Current Opinion in Biotechnology</i> , <b>2007</b> , 18, 399-410	11.4	57
221	Design of a novel mammalian screening system for the detection of bioavailable, non-cytotoxic streptogramin antibiotics. <i>Journal of Antibiotics</i> , <b>2001</b> , 54, 44-55	3.7	57
220	Serum protects protein-free competent Chinese hamster ovary cells against apoptosis induced by nutrient deprivation in batch culture. <i>Biotechnology and Bioengineering</i> , <b>1999</b> , 64, 108-19	4.9	57
219	Shedding Light on Extracellular Vesicle Biogenesis and Bioengineering. <i>Advanced Science</i> , <b>2020</b> , 8, 20035056	5.6	57
218	Autoregulated multicistronic expression vectors provide one-step cloning of regulated product gene expression in mammalian cells. <i>Biotechnology Progress</i> , <b>1997</b> , 13, 733-40	2.8	54
217	Molecular diversity—the toolbox for synthetic gene switches and networks. <i>Current Opinion in Chemical Biology</i> , <b>2011</b> , 15, 414-20	9.7	53
216	Synthetic gene network restoring endogenous pituitary-thyroid feedback control in experimental Graves disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 1244-9	11.5	52
215	Synthetic therapeutic gene circuits in mammalian cells. <i>FEBS Letters</i> , <b>2014</b> , 588, 2537-44	3.8	52
214	Artificial mammalian gene regulation networks—novel approaches for gene therapy and bioengineering. <i>Journal of Biotechnology</i> , <b>2002</b> , 98, 161-87	3.7	52
213	Novel theranostic agents for next-generation personalized medicine: small molecules, nanoparticles, and engineered mammalian cells. <i>Current Opinion in Chemical Biology</i> , <b>2015</b> , 28, 29-38	9.7	51
212	Engineering of synthetic mammalian gene networks. <i>Chemistry and Biology</i> , <b>2009</b> , 16, 287-97		51
211	Tissue-transplant fusion and vascularization of myocardial microtissues and macro tissues implanted into chicken embryos and rats. <i>Tissue Engineering</i> , <b>2006</b> , 12, 2541-53		51
210	Detailed design and comparative analysis of protocols for optimized production of high-performance HIV-1-derived lentiviral particles. <i>Metabolic Engineering</i> , <b>2005</b> , 7, 426-36	9.7	50
209	Synthetic gene circuits for the detection, elimination and prevention of disease. <i>Nature Biomedical Engineering</i> , <b>2018</b> , 2, 399-415	19	49
208	A biotin-triggered genetic switch in mammalian cells and mice. <i>Metabolic Engineering</i> , <b>2009</b> , 11, 117-24	9.7	49
207	Novel promoter/transactivator configurations for macrolide- and streptogramin-responsive transgene expression in mammalian cells. <i>Journal of Gene Medicine</i> , <b>2002</b> , 4, 676-86	3.5	49
206	Life after the synthetic cell. <i>Nature</i> , <b>2010</b> , 465, 422-4	50.4	48
205	Rational design of a small molecule-responsive intramer controlling transgene expression in mammalian cells. <i>Nucleic Acids Research</i> , <b>2011</b> , 39, e155	20.1	48

204	A synthetic erectile optogenetic stimulator enabling blue-light-inducible penile erection. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 5933-8	16.4	47
203	Modeling the quorum sensing regulatory network of human-pathogenic <i>Pseudomonas aeruginosa</i> . <i>Biotechnology Progress</i> , <b>2004</b> , 20, 670-8	2.8	46
202	Electrogenetic cellular insulin release for real-time glycemic control in type 1 diabetic mice. <i>Science</i> , <b>2020</b> , 368, 993-1001	33.3	45
201	A designer cell-based histamine-specific human allergy profiler. <i>Nature Communications</i> , <b>2014</b> , 5, 4408	17.4	45
200	Smart medication through combination of synthetic biology and cell microencapsulation. <i>Metabolic Engineering</i> , <b>2012</b> , 14, 252-60	9.7	44
199	An engineered L-arginine sensor of <i>Chlamydia pneumoniae</i> enables arginine-adjustable transcription control in mammalian cells and mice. <i>Nucleic Acids Research</i> , <b>2007</b> , 35, e136	20.1	44
198	p27Kip1-mediated controlled proliferation technology increases constitutive sICAM production in CHO-DUKX adapted for growth in suspension and serum-free media. <i>Biotechnology and Bioengineering</i> , <b>2002</b> , 79, 619-27	4.9	44
197	A novel reporter system for bacterial and mammalian cells based on the non-ribosomal peptide indigoidine. <i>Metabolic Engineering</i> , <b>2012</b> , 14, 325-35	9.7	43
196	Engineering of ribozyme-based riboswitches for mammalian cells. <i>Methods</i> , <b>2012</b> , 56, 351-7	4.6	43
195	Streptogramin- and tetracycline-responsive dual regulated expression of p27(Kip1) sense and antisense enables positive and negative growth control of Chinese hamster ovary cells. <i>Nucleic Acids Research</i> , <b>2001</b> , 29, E19	20.1	43
194	A novel autoregulated proliferation-controlled production process using recombinant CHO cells <b>1999</b> , 65, 144-150		43
193	Biomedically relevant circuit-design strategies in mammalian synthetic biology. <i>Molecular Systems Biology</i> , <b>2013</b> , 9, 691	12.2	42
192	Differential effect of exocytic SNAREs on the production of recombinant proteins in mammalian cells. <i>Biotechnology and Bioengineering</i> , <b>2011</b> , 108, 611-20	4.9	42
191	Conditional human VEGF-mediated vascularization in chicken embryos using a novel temperature-inducible gene regulation (TIGR) system. <i>Nucleic Acids Research</i> , <b>2003</b> , 31, e69	20.1	42
190	Dual-regulated expression technology: a new era in the adjustment of heterologous gene expression in mammalian cells. <i>Journal of Gene Medicine</i> , <b>2001</b> , 3, 529-49	3.5	42
189	Programmable full-adder computations in communicating three-dimensional cell cultures. <i>Nature Methods</i> , <b>2018</b> , 15, 57-60	21.6	42
188	A CRISPR/Cas9-based central processing unit to program complex logic computation in human cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2019</b> , 116, 7214-7219	11.5	41
187	A synthetic mammalian electro-genetic transcription circuit. <i>Nucleic Acids Research</i> , <b>2009</b> , 37, e33	20.1	41

186	Semi-synthetic mammalian gene regulatory networks. <i>Metabolic Engineering</i> , <b>2005</b> , 7, 241-50	9.7	41
185	Light-Controlled Mammalian Cells and Their Therapeutic Applications in Synthetic Biology. <i>Advanced Science</i> , <b>2019</b> , 6, 1800952	13.6	41
184	Immunomimetic Designer Cells Protect Mice from MRSA Infection. <i>Cell</i> , <b>2018</b> , 174, 259-270.e11	56.2	40
183	The vesicle-trafficking protein munc18b increases the secretory capacity of mammalian cells. <i>Metabolic Engineering</i> , <b>2010</b> , 12, 18-25	9.7	40
182	Intronic encoded siRNAs improve dynamic range of mammalian gene regulation systems and toggle switch. <i>Nucleic Acids Research</i> , <b>2008</b> , 36, e101	20.1	40
181	Approaches for trigger-inducible viral transgene regulation in gene-based tissue engineering. <i>Current Opinion in Biotechnology</i> , <b>2004</b> , 15, 383-91	11.4	40
180	The impact of synthetic biology on drug discovery. <i>Drug Discovery Today</i> , <b>2009</b> , 14, 956-63	8.8	38
179	Versatile macrolide-responsive mammalian expression vectors for multiregulated multigene metabolic engineering. <i>Biotechnology and Bioengineering</i> , <b>2002</b> , 80, 691-705	4.9	38
178	A synthetic biology-based device prevents liver injury in mice. <i>Journal of Hepatology</i> , <b>2016</b> , 65, 84-94	13.4	38
177	Engineering molecular circuits using synthetic biology in mammalian cells. <i>Annual Review of Chemical and Biomolecular Engineering</i> , <b>2012</b> , 3, 209-34	8.9	37
176	Therapeutic protein transduction of mammalian cells and mice by nucleic acid-free lentiviral nanoparticles. <i>Nucleic Acids Research</i> , <b>2006</b> , 34, e16	20.1	37
175	Nonimmune cells equipped with T-cell-receptor-like signaling for cancer cell ablation. <i>Nature Chemical Biology</i> , <b>2018</b> , 14, 42-49	11.7	36
174	Caffeine-inducible gene switches controlling experimental diabetes. <i>Nature Communications</i> , <b>2018</b> , 9, 2318	17.4	36
173	mRNA transfection-based, feeder-free, induced pluripotent stem cells derived from adipose tissue of a 50-year-old patient. <i>Metabolic Engineering</i> , <b>2013</b> , 18, 9-24	9.7	36
172	Regulated overexpression of the survival factor bcl-2 in CHO cells increases viable cell density in batch culture and decreases DNA release in extended fixed-bed cultivation. <i>Cytotechnology</i> , <b>2000</b> , 32, 45-61	2.2	36
171	A novel system for trigger-controlled drug release from polymer capsules. <i>Journal of Controlled Release</i> , <b>2008</b> , 131, 211-9	11.7	35
170	Effects of protein and gene transfer of the angiopoietin-1 fibrinogen-like receptor-binding domain on endothelial and vessel organization. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 22445-53	5.4	35
169	An update of pTRIDENT multicistronic expression vectors: pTRIDENTs containing novel streptogramin-responsive promoters. <i>Biotechnology Progress</i> , <b>2000</b> , 16, 724-35	2.8	35



168	Synthetic immunology: modulating the human immune system. <i>Trends in Biotechnology</i> , <b>2015</b> , 33, 65-79	15.1	34
167	Synthetic biology-based cellular biomedical tattoo for detection of hypercalcemia associated with cancer. <i>Science Translational Medicine</i> , <b>2018</b> , 10,	17.5	34
166	The use of light for engineered control and reprogramming of cellular functions. <i>Current Opinion in Biotechnology</i> , <b>2012</b> , 23, 695-702	11.4	34
165	A genetic redox sensor for mammalian cells. <i>Metabolic Engineering</i> , <b>2006</b> , 8, 273-80	9.7	34
164	Synthetic mammalian gene circuits for biomedical applications. <i>Current Opinion in Chemical Biology</i> , <b>2013</b> , 17, 910-7	9.7	33
163	Synthetic biology advancing clinical applications. <i>Current Opinion in Chemical Biology</i> , <b>2012</b> , 16, 345-54	9.7	33
162	Mammalian synthetic biology--from tools to therapies. <i>BioEssays</i> , <b>2010</b> , 32, 332-45	4.1	33
161	Vitamin H-regulated transgene expression in mammalian cells. <i>Nucleic Acids Research</i> , <b>2007</b> , 35, e116	20.1	33
160	A novel generic dipstick-based technology for rapid and precise detection of tetracycline, streptogramin and macrolide antibiotics in food samples. <i>Journal of Biotechnology</i> , <b>2007</b> , 128, 668-80	3.7	33
159	Self-assembly of sensory neurons into ganglia-like microtissues. <i>Journal of Biotechnology</i> , <b>2006</b> , 121, 86-101	3.7	33
158	Functional cross-kingdom conservation of mammalian and moss ( <i>Physcomitrella patens</i> ) transcription, translation and secretion machineries. <i>Plant Biotechnology Journal</i> , <b>2009</b> , 7, 73-86	11.6	32
157	Synthetic gene networks in mammalian cells. <i>Current Opinion in Biotechnology</i> , <b>2010</b> , 21, 690-6	11.4	32
156	A Gene Therapy Technology-Based Biomaterial for the Trigger-Inducible Release of Biopharmaceuticals in Mice. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 2534-2538	15.6	32
155	Novel CNBP- and La-based translation control systems for mammalian cells. <i>Biotechnology and Bioengineering</i> , <b>2003</b> , 81, 1-12	4.9	32
154	Designer cells programming quorum-sensing interference with microbes. <i>Nature Communications</i> , <b>2018</b> , 9, 1822	17.4	31
153	Multi-gene engineering: simultaneous expression and knockdown of six genes off a single platform. <i>Biotechnology and Bioengineering</i> , <b>2007</b> , 96, 821-34	4.9	31
152	Designed cell consortia as fragrance-programmable analog-to-digital converters. <i>Nature Chemical Biology</i> , <b>2017</b> , 13, 309-316	11.7	30
151	A Synthetic-Biology-Inspired Therapeutic Strategy for Targeting and Treating Hepatogenous Diabetes. <i>Molecular Therapy</i> , <b>2017</b> , 25, 443-455	11.7	30

150	A genetic time-delay circuitry in mammalian cells. <i>Biotechnology and Bioengineering</i> , <b>2007</b> , 98, 894-902	4.9	30
149	Impact of RNA interference on gene networks. <i>Metabolic Engineering</i> , <b>2006</b> , 8, 672-83	9.7	30
148	Engineering Gene Circuits for Mammalian Cell-Based Applications. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2016</b> , 8,	10.2	30
147	Engineering a ribozyme cleavage-induced split fluorescent aptamer complementation assay. <i>Nucleic Acids Research</i> , <b>2016</b> , 44, e94	20.1	29
146	Conditional DNA-Protein Interactions Confer Stimulus-Sensing Properties to Biohybrid Materials. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 2861-2867	15.6	29
145	Recent advances in mammalian synthetic biology-design of synthetic transgene control networks. <i>Current Opinion in Biotechnology</i> , <b>2009</b> , 20, 449-60	11.4	29
144	A novel mammalian expression system derived from components coordinating nicotine degradation in arthrobacter nicotinovorans pAO1. <i>Nucleic Acids Research</i> , <b>2005</b> , 33, e107	20.1	29
143	Synthetic RNA-based switches for mammalian gene expression control. <i>Current Opinion in Biotechnology</i> , <b>2017</b> , 48, 54-60	11.4	28
142	New-generation multicistronic expression platform: pTRIDENT vectors containing size-optimized IRES elements enable homing endonuclease-based cistron swapping into lentiviral expression vectors. <i>Biotechnology and Bioengineering</i> , <b>2004</b> , 86, 174-87	4.9	27
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