

# Felix B Engel

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8428484/publications.pdf>

Version: 2024-02-01

99  
papers

7,263  
citations

57631

44  
h-index

58464

82  
g-index

112  
all docs

112  
docs citations

112  
times ranked

10519  
citing authors

#	ARTICLE	IF	CITATIONS
1	p38 MAP kinase inhibition enables proliferation of adult mammalian cardiomyocytes. <i>Genes and Development</i> , 2005, 19, 1175-1187.	2.7	516
2	International Union of Basic and Clinical Pharmacology. XCIV. Adhesion G Proteinâ€“Coupled Receptors. <i>Pharmacological Reviews</i> , 2015, 67, 338-367.	7.1	392
3	Silk proteins for biomedical applications: Bioengineering perspectives. <i>Progress in Polymer Science</i> , 2014, 39, 251-267.	11.8	364
4	FGF1/p38 MAP kinase inhibitor therapy induces cardiomyocyte mitosis, reduces scarring, and rescues function after myocardial infarction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 15546-15551.	3.3	332
5	Extracellular vesicles in diagnostics and therapy of the ischaemic heart: Position Paper from the Working Group on Cellular Biology of the Heart of the European Society of Cardiology. <i>Cardiovascular Research</i> , 2018, 114, 19-34.	1.8	284
6	Novel targets and future strategies for acute cardioprotection: Position Paper of the European Society of Cardiology Working Group on Cellular Biology of the Heart. <i>Cardiovascular Research</i> , 2017, 113, 564-585.	1.8	278
7	New non-viral method for gene transfer into primary cells. <i>Methods</i> , 2004, 33, 151-163.	1.9	216
8	Hypoxia-inducible factor induces local thyroid hormone inactivation during hypoxic-ischemic disease in rats. <i>Journal of Clinical Investigation</i> , 2008, 118, 975-83.	3.9	211
9	Silk protein fibroin from <i>Antheraea mylitta</i> for cardiac tissue engineering. <i>Biomaterials</i> , 2012, 33, 2673-2680.	5.7	210
10	Position Paper of the European Society of Cardiology Working Group Cellular Biology of the Heart: cell-based therapies for myocardial repair and regeneration in ischemic heart disease and heart failure. <i>European Heart Journal</i> , 2016, 37, 1789-1798.	1.0	210
11	The GSK-3 Inhibitor BIO Promotes Proliferation in Mammalian Cardiomyocytes. <i>Chemistry and Biology</i> , 2006, 13, 957-963.	6.2	202
12	Spatially Resolved Genome-wide Transcriptional Profiling Identifies BMP Signaling as Essential Regulator of Zebrafish Cardiomyocyte Regeneration. <i>Developmental Cell</i> , 2016, 36, 36-49.	3.1	176
13	Gpr126 Functions in Schwann Cells to Control Differentiation and Myelination via G-Protein Activation. <i>Journal of Neuroscience</i> , 2013, 33, 17976-17985.	1.7	159
14	ESC Working Group Cellular Biology of the Heart: Position Paper: improving the preclinical assessment of novel cardioprotective therapies. <i>Cardiovascular Research</i> , 2014, 104, 399-411.	1.8	143
15	The SRF Target Gene Fhl2 Antagonizes RhoA/MAL-Dependent Activation of SRF. <i>Molecular Cell</i> , 2004, 16, 867-880.	4.5	137
16	Anillin localization defect in cardiomyocyte binucleation. <i>Journal of Molecular and Cellular Cardiology</i> , 2006, 41, 601-612.	0.9	136
17	Electroconductive Biohybrid Hydrogel for Enhanced Maturation and Beating Properties of Engineered Cardiac Tissues. <i>Advanced Functional Materials</i> , 2018, 28, 1803951.	7.8	135
18	Features of cardiomyocyte proliferation and its potential for cardiac regeneration. <i>Journal of Cellular and Molecular Medicine</i> , 2008, 12, 2233-2244.	1.6	114

#	ARTICLE	IF	CITATIONS
19	Epigenomic and transcriptomic approaches in the post-genomic era: path to novel targets for diagnosis and therapy of the ischaemic heart? Position Paper of the European Society of Cardiology Working Group on Cellular Biology of the Heart. <i>Cardiovascular Research</i> , 2017, 113, 725-736.	1.8	114
20	Developmental alterations in centrosome integrity contribute to the post-mitotic state of mammalian cardiomyocytes. <i>ELife</i> , 2015, 4, .	2.8	105
21	Cardiomyocyte proliferation in cardiac development and regeneration: a guide to methodologies and interpretations. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 309, H1237-H1250.	1.5	100
22	Transcriptional Profiling of Caudal Fin Regeneration in Zebrafish. <i>Scientific World Journal, The</i> , 2006, 6, 38-54.	0.8	94
23	Organ-specific function of adhesion G protein-coupled receptor GPR126 is domain-dependent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16898-16903.	3.3	92
24	TWEAK is a positive regulator of cardiomyocyte proliferation. <i>Cardiovascular Research</i> , 2010, 85, 681-690.	1.8	90
25	ESC Working Group on Cellular Biology of the Heart: position paper for <i>Cardiovascular Research</i> : tissue engineering strategies combined with cell therapies for cardiac repair in ischaemic heart disease and heart failure. <i>Cardiovascular Research</i> , 2019, 115, 488-500.	1.8	90
26	Carbon nanotube doped pericardial matrix derived electroconductive biohybrid hydrogel for cardiac tissue engineering. <i>Biomaterials Science</i> , 2019, 7, 3906-3917.	2.6	83
27	Nanofibrous Composite with Tailorable Electrical and Mechanical Properties for Cardiac Tissue Engineering. <i>Advanced Functional Materials</i> , 2020, 30, 1908612.	7.8	74
28	Cardiomyocyte Cell-Cycle Activity during Preadolescence. <i>Cell</i> , 2015, 163, 781-782.	13.5	66
29	Deletion of Fn14 receptor protects from right heart fibrosis and dysfunction. <i>Basic Research in Cardiology</i> , 2013, 108, 325.	2.5	65
30	Novel therapeutic strategies for cardioprotection. , 2014, 144, 60-70.		64
31	Novel PGS/PCL electrospun fiber mats with patterned topographical features for cardiac patch applications. <i>Materials Science and Engineering C</i> , 2016, 69, 569-576.	3.8	63
32	Mutations in the BAF-Complex Subunit DPF2 Are Associated with Coffin-Siris Syndrome. <i>American Journal of Human Genetics</i> , 2018, 102, 468-479.	2.6	63
33	PPAR $\alpha$ : Linking Metabolism to Regeneration. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2013.	1.8	63
34	Cardiac Deletion of Smyd2 Is Dispensable for Mouse Heart Development. <i>PLoS ONE</i> , 2010, 5, e9748.	1.1	63
35	EGFL7 ligates $\alpha$ <sub>v</sub> $\beta$ <sub>3</sub> integrin to enhance vessel formation. <i>Blood</i> , 2013, 121, 3041-3050.	0.6	62
36	Live cell screening platform identifies PPAR $\alpha$ as a regulator of cardiomyocyte proliferation and cardiac repair. <i>Cell Research</i> , 2017, 27, 1002-1019.	5.7	59

#	ARTICLE	IF	CITATIONS
37	Cardiomyocyte Proliferation: A Platform for Mammalian Cardiac Repair. <i>Cell Cycle</i> , 2005, 4, 1360-1363.	1.3	57
38	Nephronectin regulates atrioventricular canal differentiation via Bmp4-Has2 signaling in zebrafish. <i>Development (Cambridge)</i> , 2011, 138, 4499-4509.	1.2	56
39	The Cardiomyocyte Cell Cycle in Hypertrophy, Tissue Homeostasis, and Regeneration. <i>Reviews of Physiology, Biochemistry and Pharmacology</i> , 2013, 165, 67-96.	0.9	55
40	Preparation and characterization of vertically arrayed hydroxyapatite nanoplates on electrospun nanofibers for bone tissue engineering. <i>Chemical Engineering Journal</i> , 2014, 254, 612-622.	6.6	55
41	p21 CIP1 Controls Proliferating Cell Nuclear Antigen Level in Adult Cardiomyocytes. <i>Molecular and Cellular Biology</i> , 2003, 23, 555-565.	1.1	54
42	Improving translational research in sex-specific effects of comorbidities and risk factors in ischaemic heart disease and cardioprotection: position paper and recommendations of the ESC Working Group on Cellular Biology of the Heart. <i>Cardiovascular Research</i> , 2021, 117, 367-385.	1.8	53
43	Advances in heart regeneration based on cardiomyocyte proliferation and regenerative potential of binucleated cardiomyocytes and polyploidization. <i>Clinical Science</i> , 2019, 133, 1229-1253.	1.8	51
44	A Mammalian Myocardial Cell-Free System to Study Cell Cycle Reentry in Terminally Differentiated Cardiomyocytes. <i>Circulation Research</i> , 1999, 85, 294-301.	2.0	50
45	Poly(Glycerol Sebacate)/Poly(Butylene Succinate-Butylene Dilinoleate) Fibrous Scaffolds for Cardiac Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2015, 21, 585-596.	1.1	47
46	Cardiomyocyte binucleation is associated with aberrant mitotic microtubule distribution, mislocalization of RhoA and IQGAP3, as well as defective actomyosin ring anchorage and cleavage furrow ingression. <i>Cardiovascular Research</i> , 2018, 114, 1115-1131.	1.8	47
47	Towards regenerating the mammalian heart: challenges in evaluating experimentally induced adult mammalian cardiomyocyte proliferation. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 310, H1045-H1054.	1.5	46
48	Surface Features of Recombinant Spider Silk Protein eADF4(16) Made Materials are Well Suited for Cardiac Tissue Engineering. <i>Advanced Functional Materials</i> , 2017, 27, 1701427.	7.8	46
49	Non-professional phagocytosis: a general feature of normal tissue cells. <i>Scientific Reports</i> , 2019, 9, 11875.	1.6	45
50	Microtubule Organization in Striated Muscle Cells. <i>Cells</i> , 2020, 9, 1395.	1.8	45
51	Identification of Chemicals Inducing Cardiomyocyte Proliferation in Developmental Stage-Specific Manner With Pluripotent Stem Cells. <i>Circulation: Cardiovascular Genetics</i> , 2013, 6, 624-633.	5.1	44
52	Changes in glomerular parietal epithelial cells in mouse kidneys with advanced age. <i>American Journal of Physiology - Renal Physiology</i> , 2015, 309, F164-F178.	1.3	42
53	From basic mechanisms to clinical applications in heart protection, new players in cardiovascular diseases and cardiac theranostics: meeting report from the third international symposium on "New frontiers in cardiovascular research". <i>Basic Research in Cardiology</i> , 2016, 111, 69.	2.5	41
54	GSK3 $\beta$ -dependent dysregulation of neurodevelopment in SPG11 patient induced pluripotent stem cell model. <i>Annals of Neurology</i> , 2016, 79, 826-840.	2.8	40

#	ARTICLE	IF	CITATIONS
55	Lysine methyltransferase Smyd2 suppresses p53-dependent cardiomyocyte apoptosis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 2556-2562.	1.9	38
56	TWEAK-Fn14 Cytokine-Receptor Axis: A New Player of Myocardial Remodeling and Cardiac Failure. <i>Frontiers in Immunology</i> , 2014, 5, 50.	2.2	34
57	TWEAK/Fn14 axis is a positive regulator of cardiac hypertrophy. <i>Cytokine</i> , 2013, 64, 43-45.	1.4	33
58	The functional properties of nephronectin: An adhesion molecule for cardiac tissue engineering. <i>Biomaterials</i> , 2012, 33, 4327-4335.	5.7	32
59	Cardiac injury of the newborn mammalian heart accelerates cardiomyocyte terminal differentiation. <i>Scientific Reports</i> , 2017, 7, 8362.	1.6	32
60	Gelatin methacryloyl is a slow degrading material allowing vascularization and long-term use in vivo. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 065004.	1.7	32
61	AKAP6 orchestrates the nuclear envelope microtubule-organizing center by linking golgi and nucleus via AKAP9. <i>ELife</i> , 2020, 9, .	2.8	32
62	E2F4 is required for cardiomyocyte proliferation. <i>Cardiovascular Research</i> , 2010, 86, 92-102.	1.8	31
63	FGF1-mediated cardiomyocyte cell cycle reentry depends on the interaction of FGFR1 and Fn14. <i>FASEB Journal</i> , 2014, 28, 2492-2503.	0.2	30
64	Promoting vascularization for tissue engineering constructs: current strategies focusing on HIF-regulating scaffolds. <i>Expert Opinion on Biological Therapy</i> , 2019, 19, 105-118.	1.4	29
65	Persistent scarring and dilated cardiomyopathy suggest incomplete regeneration of the apex resected neonatal mouse myocardium – A 180 days follow up study. <i>Journal of Molecular and Cellular Cardiology</i> , 2016, 90, 47-52.	0.9	27
66	Dipeptidyl Peptidase IV Inhibition Activates CREB and Improves Islet Vascularization through VEGF-A/VEGFR-2 Signaling Pathway. <i>PLoS ONE</i> , 2013, 8, e82639.	1.1	24
67	Vascularisation for cardiac tissue engineering: the extracellular matrix. <i>Thrombosis and Haemostasis</i> , 2015, 113, 532-547.	1.8	24
68	Deletion of Gas2l3 in mice leads to specific defects in cardiomyocyte cytokinesis during development. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 8029-8034.	3.3	22
69	Adhesion GPCRs in Kidney Development and Disease. <i>Frontiers in Cell and Developmental Biology</i> , 2018, 6, 9.	1.8	21
70	Recombinant spider silk protein eADF4(C16)-RGD coatings are suitable for cardiac tissue engineering. <i>Scientific Reports</i> , 2020, 10, 8789.	1.6	21
71	Pseudo-bipolar spindle formation and cell division in postnatal binucleated cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2019, 134, 69-73.	0.9	20
72	Designing of spider silk proteins for human induced pluripotent stem cell-based cardiac tissue engineering. <i>Materials Today Bio</i> , 2021, 11, 100114.	2.6	19

#	ARTICLE	IF	CITATIONS
73	The expanding functional roles and signaling mechanisms of adhesion G protein-coupled receptors. <i>Annals of the New York Academy of Sciences</i> , 2019, 1456, 5-25.	1.8	16
74	Gpr126 (Adgrg6) is expressed in cell types known to be exposed to mechanical stimuli. <i>Annals of the New York Academy of Sciences</i> , 2019, 1456, 96-108.	1.8	15
75	CHIR99021 Promotes hiPSC-Derived Cardiomyocyte Proliferation in Engineered 3D Microtissues. <i>Advanced Healthcare Materials</i> , 2021, 10, e2100926.	3.9	14
76	The multiple signaling modalities of adhesion G protein-coupled receptor GPR126 in development. <i>International Journal of Mechanical Engineering and Applications</i> , 2014, 1, 79.	0.3	13
77	IFN- $\beta$ -response mediator GBP-1 represses human cell proliferation by inhibiting the Hippo signaling transcription factor TEAD. <i>Biochemical Journal</i> , 2018, 475, 2955-2967.	1.7	12
78	Stem Cells and Their Cardiac Derivatives for Cardiac Tissue Engineering and Regenerative Medicine. <i>Antioxidants and Redox Signaling</i> , 2021, 35, 143-162.	2.5	12
79	Melatonin as a cardioprotective therapy following ST-segment elevation myocardial infarction: is it really promising? Reply. <i>Cardiovascular Research</i> , 2017, 113, 1418-1419.	1.8	11
80	IQGAP3, a YAP Target, Is Required for Proper Cell-Cycle Progression and Genome Stability. <i>Molecular Cancer Research</i> , 2021, 19, 1712-1726.	1.5	11
81	SMYD2 targets RIPK1 and restricts TNF-induced apoptosis and necroptosis to support colon tumor growth. <i>Cell Death and Disease</i> , 2022, 13, 52.	2.7	11
82	Inferring cell cycle feedback regulation from gene expression data. <i>Journal of Biomedical Informatics</i> , 2011, 44, 565-575.	2.5	9
83	Heart Development, Angiogenesis, and Blood-Brain Barrier Function Is Modulated by Adhesion GPCRs. <i>Handbook of Experimental Pharmacology</i> , 2016, 234, 351-368.	0.9	9
84	Stem Cell Aging and Age-Related Cardiovascular Disease: Perspectives of Treatment by Ex-vivo Stem Cell Rejuvenation. <i>Current Drug Targets</i> , 2015, 16, 780-785.	1.0	8
85	Gene network analysis: from heart development to cardiac therapy. <i>Thrombosis and Haemostasis</i> , 2015, 113, 521-531.	1.8	7
86	Isolation, Culture, and Live-Cell Imaging of Primary Rat Cardiomyocytes. <i>Methods in Molecular Biology</i> , 2021, 2158, 109-124.	0.4	7
87	Improvement of the Layer Adhesion of Composite Cardiac Patches. <i>Advanced Engineering Materials</i> , 2020, 22, 1900986.	1.6	6
88	Myogenin controls via AKAP6 non-centrosomal microtubule-organizing center formation at the nuclear envelope. <i>ELife</i> , 2021, 10, .	2.8	6
89	Isolation of Human Endothelial Cells from Normal Colon and Colorectal Carcinoma - An Improved Protocol. <i>Journal of Visualized Experiments</i> , 2018, , .	0.2	5
90	Human cytomegaloviral multifunctional protein kinase pUL97 impairs zebrafish embryonic development and increases mortality. <i>Scientific Reports</i> , 2019, 9, 7219.	1.6	5

#	ARTICLE	IF	CITATIONS
91	Silk for cardiac tissue engineering. , 2014, , 429-455.		4
92	Alternative Splicing of Pericentrin Contributes to Cell Cycle Control in Cardiomyocytes. Journal of Cardiovascular Development and Disease, 2021, 8, 87.	0.8	4
93	Biomimetic Organic-Inorganic Nanocomposite Scaffolds to Regenerate Cranial Bone Defects in a Rat Animal Model. ACS Biomaterials Science and Engineering, 2022, 8, 1258-1270.	2.6	4
94	GAS2L3: Coordinator of cardiomyocyte cytokinesis?. Cell Cycle, 2017, 16, 1853-1854.	1.3	3
95	miR-27a/b is a posttranscriptional regulator of Gpr126 ( Adgrg6 ). Annals of the New York Academy of Sciences, 2019, 1456, 109-121.	1.8	3
96	Functional genomics meta-analysis to identify gene set enrichment networks in cardiac hypertrophy. Biological Chemistry, 2021, 402, 953-972.	1.2	3
97	Stem Cell Secretome and Paracrine Activity. Pancreatic Islet Biology, 2016, , 123-141.	0.1	1
98	Single-cell cardiovascular research. Cardiovascular Research, 2020, 116, 1399-1401.	1.8	0
99	OP6: Gelatin Methacryloyl is a Slow Degrading Material Allowing Vascularization and Long-Term Use In Vivo. Plastic and Reconstructive Surgery - Global Open, 2022, 10, 3-4.	0.3	0