Jamie A Davies

List of Publications by Citations

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

205 papers	12,953 citations	51 h-index	112 g-index
226 ext. papers	14,644 ext. citations	6.3 avg, IF	6.46 L-index

#	Paper	IF	Citations
205	The IUPHAR/BPS Guide to PHARMACOLOGY in 2018: updates and expansion to encompass the new guide to IMMUNOPHARMACOLOGY. *Nucleic Acids Research*, **2018**, 46, D1091-D1106	20.1	1458
204	The IUPHAR/BPS Guide to PHARMACOLOGY in 2016: towards curated quantitative interactions between 1300 protein targets and 6000 ligands. *Nucleic Acids Research*, **2016**, 44, D1054-68	20.1	1014
203	THE CONCISE GUIDE TO PHARMACOLOGY 2017/18: Enzymes. *British Journal of Pharmacology*, **2017**, 174 Suppl 1, S272-S359	8.6	588
202	THE CONCISE GUIDE TO PHARMACOLOGY 2017/18: G protein-coupled receptors. *British Journal of Pharmacology*, **2017**, 174 Suppl 1, S17-S129	8.6	517
201	The Concise Guide to PHARMACOLOGY 2015/16: Enzymes. *British Journal of Pharmacology*, **2015**, 172, 6024-109	8.6	515
200	The Concise Guide to PHARMACOLOGY 2015/16: G protein-coupled receptors. *British Journal of Pharmacology*, **2015**, 172, 5744-869	8.6	475
199	Persephin, a novel neurotrophic factor related to GDNF and neurturin. *Neuron*, **1998**, 20, 245-53	13.9	421
198	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: G protein-coupled receptors. *British Journal of Pharmacology*, **2019**, 176 Suppl 1, S21-S141	8.6	391
197	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Enzymes. *British Journal of Pharmacology*, **2019**, 176 Suppl 1, S297-S396	8.6	347
196	Isolation from chick somites of a glycoprotein fraction that causes collapse of dorsal root ganglion growth cones. *Neuron*, **1990**, 4, 11-20	13.9	243
195	THE CONCISE GUIDE TO PHARMACOLOGY 2017/18: Overview. *British Journal of Pharmacology*, **2017**, 174 Suppl 1, S1-S16	8.6	231
194	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Introduction and Other Protein Targets. *British Journal of Pharmacology*, **2019**, 176 Suppl 1, S1-S20	8.6	218
193	The Concise Guide to PHARMACOLOGY 2015/16: Overview. *British Journal of Pharmacology*, **2015**, 172, 5729-43	8.6	207
192	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Ion channels. *British Journal of Pharmacology*, **2019**, 176 Suppl 1, S142-S228	8.6	200
191	GUDMAP: the genitourinary developmental molecular anatomy project. *Journal of the American Society of Nephrology: JASN*, **2008**, 19, 667-71	12.7	197
190	The GUDMAP database--an online resource for genitourinary research. *Development (Cambridge)*, **2011**, 138, 2845-53	6.6	190
189	THE CONCISE GUIDE TO PHARMACOLOGY 2017/18: Transporters. *British Journal of Pharmacology*, **2017**, 174 Suppl 1, S360-S446	8.6	189

188	The Concise Guide to PHARMACOLOGY 2015/16: Transporters. *British Journal of Pharmacology*, **2015**, 172, 6110-202	8.6	180
187	THE CONCISE GUIDE TO PHARMACOLOGY 2017/18: Catalytic receptors. *British Journal of Pharmacology*, **2017**, 174 Suppl 1, S225-S271	8.6	171
186	THE CONCISE GUIDE TO PHARMACOLOGY 2017/18: Voltage-gated ion channels. *British Journal of Pharmacology*, **2017**, 174 Suppl 1, S160-S194	8.6	166
185	The Concise Guide to PHARMACOLOGY 2015/16: Voltage-gated ion channels. *British Journal of Pharmacology*, **2015**, 172, 5904-41	8.6	164
184	Development of an siRNA-based method for repressing specific genes in renal organ culture and its use to show that the Wt1 tumour suppressor is required for nephron differentiation. *Human Molecular Genetics*, **2004**, 13, 235-46	5.6	155
183	The Concise Guide to PHARMACOLOGY 2015/16: Catalytic receptors. *British Journal of Pharmacology*, **2015**, 172, 5979-6023	8.6	151
182	Dissociation of embryonic kidneys followed by reaggregation allows the formation of renal tissues. *Kidney International*, **2010**, 77, 407-16	9.9	148
181	THE CONCISE GUIDE TO PHARMACOLOGY 2017/18: Ligand-gated ion channels. *British Journal of Pharmacology*, **2017**, 174 Suppl 1, S130-S159	8.6	135
180	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Transporters. *British Journal of Pharmacology*, **2019**, 176 Suppl 1, S397-S493	8.6	133
179	Erk MAP kinase regulates branching morphogenesis in the developing mouse kidney. *Development (Cambridge)*, **2001**, 128, 4329-4338	6.6	131
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177	Do different branching epithelia use a conserved developmental mechanism?. *BioEssays*, **2002**, 24, 937-48	4.1	130
176	The Concise Guide to PHARMACOLOGY 2015/16: Ligand-gated ion channels. *British Journal of Pharmacology*, **2015**, 172, 5870-903	8.6	128
175	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Catalytic receptors. *British Journal of Pharmacology*, **2019**, 176 Suppl 1, S247-S296	8.6	127
174	In vivo maturation of functional renal organoids formed from embryonic cell suspensions. *Journal of the American Society of Nephrology: JASN*, **2012**, 23, 1857-68	12.7	125
173	A wt1-controlled chromatin switching mechanism underpins tissue-specific wnt4 activation and repression. *Developmental Cell*, **2011**, 21, 559-74	10.2	115
172	Pattern and regulation of cell proliferation during murine ureteric bud development. *Journal of Anatomy*, **2004**, 204, 241-55	2.9	115
171	The Concise Guide to PHARMACOLOGY 2015/16: Nuclear hormone receptors. *British Journal of Pharmacology*, **2015**, 172, 5956-78	8.6	114

170	A high-resolution anatomical ontology of the developing murine genitourinary tract. *Gene Expression Patterns*, **2007**, 7, 680-99	1.5	114
169	THE CONCISE GUIDE TO PHARMACOLOGY 2019/20: Nuclear hormone receptors. *British Journal of Pharmacology*, **2019**, 176 Suppl 1, S229-S246	8.6	113
168	Induction of early stages of kidney tubule differentiation by lithium ions. *Developmental Biology*, **1995**, 167, 50-60	3.1	102
167	Genes and proteins in renal development. *Nephron Experimental Nephrology*, **2002**, 10, 102-13		96
166	Mesenchyme to epithelium transition during development of the mammalian kidney tubule. *Cells Tissues Organs*, **1996**, 156, 187-201	2.1	88
165	The IUPHAR/BPS Guide to PHARMACOLOGY in 2020: extending immunopharmacology content and introducing the IUPHAR/MMV Guide to MALARIA PHARMACOLOGY. *Nucleic Acids Research*, **2020**, 48, D1006-D1021	20.1	87
164	Signalling by glial cell line-derived neurotrophic factor (GDNF) requires heparan sulphate glycosaminoglycan. *Journal of Cell Science*, **2002**, 115, 4495-503	5.3	83
163	An illustrated anatomical ontology of the developing mouse lower urogenital tract. *Development (Cambridge)*, **2015**, 142, 1893-908	6.6	81
162	Calcium/NFAT signalling promotes early nephrogenesis. *Developmental Biology*, **2011**, 352, 288-98	3.1	75
161	Towards a genetic basis for kidney development. *Mechanisms of Development*, **1994**, 48, 3-11	1.7	69
160	Contribution of human amniotic fluid stem cells to renal tissue formation depends on mTOR. *Human Molecular Genetics*, **2010**, 19, 3320-31	5.6	65
159	The development of the kidney. *Current Topics in Developmental Biology*, **1998**, 39, 245-301	5.3	64
158	Integrated β-catenin, BMP, PTEN, and Notch signalling patterns the nephron. *ELife*, **2015**, 3, e04000	8.9	60
157	Synthetic morphology: prospects for engineered, self-constructing anatomies. *Journal of Anatomy*, **2008**, 212, 707-19	2.9	55
156	An improved kidney dissociation and reaggregation culture system results in nephrons arranged organotypically around a single collecting duct system. *Organogenesis*, **2011**, 7, 83-7	1.7	54
155	A role for microfilament-based contraction in branching morphogenesis of the ureteric bud. *Kidney International*, **2005**, 68, 2010-8	9.9	52
154	A rational roadmap for SARS-CoV-2/COVID-19 pharmacotherapeutic research and development: IUPHAR Review 29. *British Journal of Pharmacology*, **2020**, 177, 4942-4966	8.6	51
153	2- and 3-dimensional synthetic large-scale de novo patterning by mammalian cells through phase separation. *Scientific Reports*, **2016**, 6, 20664	4.9	51

152	Using synthetic biology to explore principles of development. *Development (Cambridge)*, **2017**, 144, 1146-1158	6.1	48
151	Cell-cell interactions driving kidney morphogenesis. *Current Topics in Developmental Biology*, **2015**, 112, 467-508	5.3	46
150	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: G protein-coupled receptors. *British Journal of Pharmacology*, **2021**, 178 Suppl 1, S27-S156	8.6	46
149	A novel, low-volume method for organ culture of embryonic kidneys that allows development of cortico-medullary anatomical organization. *PLoS ONE*, **2010**, 5, e10550	3.7	44
148	Cycles of vascular plexus formation within the nephrogenic zone of the developing mouse kidney. *Scientific Reports*, **2017**, 7, 3273	4.9	43
147	THE CONCISE GUIDE TO PHARMACOLOGY 2017/18: Other ion channels. *British Journal of Pharmacology*, **2017**, 174 Suppl 1, S195-S207	8.6	40
146	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Enzymes. *British Journal of Pharmacology*, **2021**, 178 Suppl 1, S313-S411	8.6	40
145	The Concise Guide to PHARMACOLOGY 2015/16: Other ion channels. *British Journal of Pharmacology*, **2015**, 172, 5942-55	8.6	38
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143	An improved method of renal tissue engineering, by combining renal dissociation and reaggregation with a low-volume culture technique, results in development of engineered kidneys complete with loops of Henle. *Nephron Experimental Nephrology*, **2012**, 121, e79-85		37
142	Collecting duct morphogenesis. *Pediatric Nephrology*, **1999**, 13, 535-41	3.2	37
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138	Intracellular and extracellular regulation of ureteric bud morphogenesis. *Journal of Anatomy*, **2001**, 198, 257-64	2.9	34
137	Control of calbindin-D28K expression in developing mouse kidney. *Developmental Dynamics*, **1994**, 199, 45-51	2.9	34
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133	A secreted BMP antagonist, Cer1, fine tunes the spatial organization of the ureteric bud tree during mouse kidney development. *PLoS ONE*, **2011**, 6, e27676	3.7	29
132	Cell biology of ureter development. *Journal of the American Society of Nephrology: JASN*, **2013**, 24, 19-25	12.7	28
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126	Regulation, necessity, and the misinterpretation of knockouts. *BioEssays*, **2009**, 31, 826-30	4.1	24
125	Transport of organic anions and cations in murine embryonic kidney development and in serially-reaggregated engineered kidneys. *Scientific Reports*, **2015**, 5, 9092	4.9	23
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123	Asymmetric BMP4 signalling improves the realism of kidney organoids. *Scientific Reports*, **2017**, 7, 14824	4.9	21
122	A self-avoidance mechanism in patterning of the urinary collecting duct tree. *BMC Developmental Biology*, **2014**, 14, 35	3.1	21
121	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Ion channels. *British Journal of Pharmacology*, **2021**, 178 Suppl 1, S157-S245	8.6	21
120	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Introduction and Other Protein Targets. *British Journal of Pharmacology*, **2021**, 178 Suppl 1, S1-S26	8.6	20
119	Mechanisms of epithelial development and neoplasia in the metanephric kidney. *International Journal of Developmental Biology*, **1999**, 43, 473-8	1.9	20
118	Engineered renal tissue as a potential platform for pharmacokinetic and nephrotoxicity testing. *Drug Discovery Today*, **2014**, 19, 725-9	8.8	18
117	Kidney development: the inductive interactions. *Seminars in Cell and Developmental Biology*, **1996**, 7, 195-202	7.5	18

116	siRNA as a tool for investigating organogenesis: The pitfalls and the promises. *Organogenesis*, **2008**, 4, 176-81	1.7	17
115	Watching tubules glow and branch. *Current Opinion in Genetics and Development*, **2005**, 15, 364-70	4.9	17
114	Integration potential of mouse and human bone marrow-derived mesenchymal stem cells. *Differentiation*, **2012**, 83, 128-37	3.5	16
113	Dact2 is expressed in the developing ureteric bud/collecting duct system of the kidney and controls morphogenetic behavior of collecting duct cells. *American Journal of Physiology - Renal Physiology*, **2010**, 299, F740-51	4.3	16
112	The Kidney Development Database. *Genesis*, **1999**, 24, 194-8		16
111	How to build a kidney. *Seminars in Cell Biology*, **1993**, 4, 213-9		16
110	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Catalytic receptors. *British Journal of Pharmacology*, **2021**, 178 Suppl 1, S264-S312	8.6	16
109	The embryonic kidney: isolation, organ culture, immunostaining and RNA interference. *Methods in Molecular Biology*, **2010**, 633, 57-69	1.4	15
108	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Transporters. *British Journal of Pharmacology*, **2021**, 178 Suppl 1, S412-S513	8.6	15
107	Deducing the stage of origin of WilmsÕtumours from a developmental series of Wt1-mutant mice. *DMM Disease Models and Mechanisms*, **2015**, 8, 903-17	4.1	13
106	Nephrons require Rho-kinase for proximal-distal polarity development. *Scientific Reports*, **2013**, 3, 2692	4.9	13
105	Synthetic Biology: A Very Short Introduction **2018**,		13
104	Rapid Fabrication of Cell-Laden Alginate Hydrogel 3D Structures by Micro Dip-Coating. *Frontiers in Bioengineering and Biotechnology*, **2017**, 5, 13	5.8	12
103	Access and use of the GUDMAP database of genitourinary development. *Methods in Molecular Biology*, **2012**, 886, 185-201	1.4	12
102	Inductive interactions between the mesenchyme and the ureteric bud. *Experimental Nephrology*, **1996**, 4, 77-85		12
101	Self-organized Kidney Rudiments: Prospects for Better in vitro Nephrotoxicity Assays. *Biomarker Insights*, **2015**, 10, 117-23	3.5	11
100	In-lab three-dimensional printing: an inexpensive tool for experimentation and visualization for the field of organogenesis. *Organogenesis*, **2012**, 8, 22-7	1.7	11
99	Developmental biologistsÕchoice of subjects approximates to a power law, with no evidence for the existence of a special group of Òmodel organismsÓ*BMC Developmental Biology*, **2007**, 7, 40	3.1	11

98	Automation in the Life Science Research Laboratory. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 571777	5.8	11
97	Node retraction during patterning of the urinary collecting duct system. *Journal of Anatomy*, **2015**, 226, 13-21	2.9	10
96	Synthetic self-patterning and morphogenesis in mammalian cells: a proof-of-concept step towards synthetic tissue development. *Engineering Biology*, **2017**, 1, 71-76	1.1	10
95	Epithelial branching: the power of self-loathing. *BioEssays*, **2007**, 29, 205-7	4.1	10
94	Application of Synthetic Biology to Regenerative Medicine. *Journal of Bioengineering & Biomedical Science*, **2011**, 01,		10
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92	A method for cold storage and transport of viable embryonic kidney rudiments. *Kidney International*, **2006**, 70, 2031-4	9.9	9
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90	THE CONCISE GUIDE TO PHARMACOLOGY 2021/22: Nuclear hormone receptors. *British Journal of Pharmacology*, **2021**, 178 Suppl 1, S246-S263	8.6	9
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88	The KIDSTEM European Research Training Network: Developing a Stem Cell Based Therapy to Replace Nephrons Lost through Reflux Nephropathy. *Organogenesis*, **2007**, 3, 2-5	1.7	8
87	Inverse Correlation Between an Organ⊚ Cancer Rate and Its Evolutionary Antiquity. *Organogenesis*, **2004**, 1, 60-3	1.7	8
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85	Biological techniques: Kidney tissue grown from induced stem cells. *Nature*, **2015**, 526, 512-3	50.4	7
84	Tamoxifen- and Mifepristone-Inducible Versions of CRISPR Effectors, Cas9 and Cpf1. *ACS Synthetic Biology*, **2018**, 7, 2160-2169	5.7	7
83	FAK-Src signalling is important to renal collecting duct morphogenesis: discovery using a hierarchical screening technique. *Biology Open*, **2013**, 2, 416-23	2.2	7
82	Molecular cloning and expression pattern of rpr-1, a resiniferatoxin-binding, phosphotriesterase-related protein, expressed in rat kidney tubules. *FEBS Letters*, **1997**, 410, 378-82	3.8	7
81	Branching Morphogenesis **2006**,		7

80	The anatomy of organogenesis: novel solutions to old problems. *Progress in Histochemistry and Cytochemistry*, **2006**, 40, 165-76		7
79	Real-World Synthetic Biology: Is It Founded on an Engineering Approach, and Should It Be?. *Life*, **2019**, 9,	3	7
78	Functional transport of organic anions and cations in the murine mesonephros. *American Journal of Physiology - Renal Physiology*, **2018**, 315, F130-F137	4.3	6
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75	Organoids and mini-organs: Introduction, history, and potential **2018**, 3-23		6
74	Symmetry-breaking in branching epithelia: cells on micro-patterns under flow challenge the hypothesis of positive feedback by a secreted autocrine inhibitor of motility. *Journal of Anatomy*, **2017**, 230, 766-774	2.9	4
73	Why data citation isn't working, and what to do about it. *Database: the Journal of Biological Databases and Curation*, **2020**, 2020,	5	4
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71	SynPharm: A Guide to PHARMACOLOGY Database Tool for Designing Drug Control into Engineered Proteins. *ACS Omega*, **2018**, 3, 7993-8002	3.9	4
70	Development, databases and the Internet. *BioEssays*, **1995**, 17, 999-1001	4.1	4
69	Engineering pattern formation and morphogenesis. *Biochemical Society Transactions*, **2020**, 48, 1177-1185	5.1	4
68	A new guide to immunopharmacology. *Nature Reviews Immunology*, **2018**, 18, 729	36.5	4
67	Vascularizing the Kidney in the Embryo and Organoid: Questioning Assumptions about Renal Vasculogenesis. *Journal of the American Society of Nephrology: JASN*, **2018**, 29, 1593-1595	12.7	4
66	Glycosaminoglycans in the study of mammalian organ development. *Biochemical Society Transactions*, **2001**, 29, 166-71	5.1	4
65	Pax2: A "Keep to the Path" Sign on Waddington's Epigenetic Landscape. *Developmental Cell*, **2017**, 41, 331-332	10.2	3
64	Regenerative medicine therapies: lessons from the kidney. *Current Opinion in Physiology*, **2020**, 14, 41-47	2.6	3
63	Challenges of Connecting Chemistry to Pharmacology: Perspectives from Curating the IUPHAR/BPS Guide to PHARMACOLOGY. *ACS Omega*, **2018**, 3, 8408-8420	3.9	3

62	Design of a Mechanical Loading Device to Culture Intact Bovine Spinal Motion Segments under Multiaxial Motion **2012**, 89-105		3
61	Design of an irreversible DNA memory element. *Natural Computing*, **2007**, 6, 403-411	1.3	3
60	Letter from the editor. *Organogenesis*, **2007**, 3, 1	1.7	3
59	Making immortalized cell lines from embryonic mouse kidney. *Methods in Molecular Biology*, **2012**, 886, 165-71	1.4	3
58	siRNA-mediated RNA interference in embryonic kidney organ culture. *Methods in Molecular Biology*, **2012**, 886, 295-303	1.4	3
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56	Synthetic Biology: Rational Pathway Design for Regenerative Medicine. *Gerontology*, **2016**, 62, 564-70	5.5	3
55	Sebinger Culture: A System Optimized for Morphological Maturation and Imaging of Cultured Mouse Metanephric Primordia. *Bio-protocol*, **2018**, 8,	0.9	3
54	Optogenetic Downregulation of Protein Levels to Control Programmed Cell Death in Mammalian Cells with a Dual Blue-Light Switch. *Methods in Molecular Biology*, **2020**, 2173, 159-170	1.4	3
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50	Design considerations for small, special-system developmental databases. *Seminars in Cell and Developmental Biology*, **1997**, 8, 519-25	7.5	2
49	Development of the Ureteric Bud **2003**, 165-179		2
48	Why a Book on Branching, and Why Now? **2005**, 1-7		2
47	ORGANOID AND TISSUE PATTERNING THROUGH PHASE SEPARATION: USE OF A VERTEX MODEL TO RELATE DYNAMICS OF PATTERNING TO UNDERLYING BIOPHYSICAL PARAMETERS		2
46	SynPharm and the guide to pharmacology database: A toolset for conferring drug control on engineered proteins. *Protein Science*, **2021**, 30, 160-167	6.3	2
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42	Adaptive self-organization in the embryo: its importance to adult anatomy and to tissue engineering. *Journal of Anatomy*, **2018**, 232, 524-533	2.9	1
41	Emergence of structure in mouse embryos: Structural Entropy morphometry applied to digital models of embryonic anatomy. *Journal of Anatomy*, **2019**, 235, 706-715	2.9	1
40	Synthetic Biology Approaches for Regenerative Medicine **2014**, 1-17		1
39	Guidance by Contact **2013**, 129-145		1
38	Disinherited daughters travel by tube. *Developmental Cell*, **2013**, 27, 245-6	10.2	1
37	Three-Dimensional, High-Density and Tissue Engineered Culture Models of Articular Cartilage **2012**, 167-192		1
36	Organotypic Mandibular Cultures for the Study of Inflammatory Bone Pathology **2012**, 159-166		1
35	Control of Organogenesis: Towards Effective Tissue Engineering **2009**, 61-70		1
34	Welcome to organogenesis!. *Organogenesis*, **2004**, 1, 1-2	1.7	1
33	Intracellular and extracellular regulation of ureteric bud morphogenesis. *Journal of Anatomy*, **2000**, 198, 257-264	2.9	1
32	Epithelial Branching: Mechanisms of Patterning and Self-Organization **2015**, 255-264		1
31	Machines for living in: Connections and contrasts between designed architecture and the development of living forms. *Architectural Research Quarterly*, **2016**, 20, 45-50	0.3	1
30	From organoids to mini-organs **2018**, 175-192		1
29	Organizing Organoids: Stem Cells Branch Out. *Cell Stem Cell*, **2017**, 21, 705-706	18	0
28	Mechanical and Mathematical Models of Morphogenesis **2013**, 347-363		0
27	Synthetic Morphogenesis: Introducing IEEE Journal Readers to Programming Living Mammalian Cells to Make Structures. *Proceedings of the IEEE*, **2022**, 1-20	14.3	0

26	Deducing the stage of origin of WilmsŒumours from a developmental series of Wt1-mutant mice. *Development (Cambridge)*, **2015**, 142, e1.2-e1.2	6.6	0
25	Connection of ES Cell-derived Collecting Ducts and Ureter-like Structures to Host Kidneys in Culture. *Organogenesis*, **2021**, 1-10	1.7	0
24	The inter-dependence of basic and applied biomedical sciences: Lessons from kidney development and tissue-engineering. *Porto Biomedical Journal*, **2017**, 2, 136-139	1.1	
23	Organ-Cultured Human Skin for the Study of Epithelial Cell Invasion of Stroma **2012**, 151-158		
22	Magnetic Assembly of Tissue Surrogates **2012**, 107-114		
21	Hierarchical Screening of Pathways: Using Cell and Organ Cultures to Reduce use of Transgenic Mice **2012**, 123-136		
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