

Mark Lewis

List of Publications by Year in descending order

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129
papers

5,145
citations

81900

39
h-index

98798

67
g-index

133
all docs

133
docs citations

133
times ranked

5983
citing authors

#	ARTICLE	IF	CITATIONS
1	Phosphate glasses for tissue engineering: Part 1. Processing and characterisation of a ternary-based P2O5-CaO-Na2O glass system. <i>Biomaterials</i> , 2004, 25, 491-499.	11.4	334
2	Tumour-derived TGF- β 1 modulates myofibroblast differentiation and promotes HGF/SF-dependent invasion of squamous carcinoma cells. <i>British Journal of Cancer</i> , 2004, 90, 822-832.	6.4	228
3	3D printing for chemical, pharmaceutical and biological applications. <i>Nature Reviews Chemistry</i> , 2018, 2, 422-436.	30.2	210
4	Processing, characterisation and biocompatibility of iron-phosphate glass fibres for tissue engineering. <i>Biomaterials</i> , 2004, 25, 3223-3232.	11.4	202
5	Phosphate glasses for tissue engineering: Part 2. Processing and characterisation of a ternary-based P2O5-CaO-Na2O glass fibre system. <i>Biomaterials</i> , 2004, 25, 501-507.	11.4	149
6	α 6 β 1 integrin promotes invasion of squamous carcinoma cells through up-regulation of matrix metalloproteinase-9. <i>International Journal of Cancer</i> , 2001, 92, 641-650.	5.1	140
7	Matrix metalloproteinases and oral cancer. <i>Oral Oncology</i> , 1999, 35, 227-233.	1.5	138
8	Craniofacial muscle engineering using a 3-dimensional phosphate glass fibre construct. <i>Biomaterials</i> , 2005, 26, 1497-1505.	11.4	128
9	Effect of iron on the surface, degradation and ion release properties of phosphate-based glass fibres. <i>Acta Biomaterialia</i> , 2005, 1, 553-563.	8.3	125
10	Soluble phosphate glasses: in vitro studies using human cells of hard and soft tissue origin. <i>Biomaterials</i> , 2004, 25, 2283-2292.	11.4	118
11	Expression of the α 6 β 1 Integrin Promotes Migration and Invasion in Squamous Carcinoma Cells. <i>Journal of Investigative Dermatology</i> , 2001, 117, 67-73.	0.7	114
12	Human adult craniofacial muscle-derived cells: neural-cell adhesion-molecule (NCAM); Tj ETQqO O 0 rgBT /Overlock 10 Tf 50 307 Td (CD5 Biochemistry, 2004, 40, 25.	3.1	100
13	Gelatinase-B (matrix metalloproteinase-9; MMP-9) secretion is involved in the migratory phase of human and murine muscle cell cultures. <i>Journal of Muscle Research and Cell Motility</i> , 2000, 21, 223-233.	2.0	94
14	Betelâ€-derived alkaloid upâ€regulates keratinocyte alphavbeta6 integrin expression and promotes oral submucous fibrosis. <i>Journal of Pathology</i> , 2011, 223, 366-377.	4.5	91
15	α 6 β 1 Integrin Upregulates Matrix Metalloproteinase 9 and Promotes Migration of Normal Oral Keratinocytes. <i>Journal of Investigative Dermatology</i> , 2001, 116, 898-904.	0.7	87
16	The IGFâ€ splice variant MGF increases progenitor cells in ALS, dystrophic, and normal muscle. <i>FEBS Letters</i> , 2007, 581, 2727-2732.	2.8	86
17	Cancer, pre-cancer and normal oral cells distinguished by dielectrophoresis. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 2455-2463.	3.7	78
18	Effect of diabetes and metabolic control on <i>de novo</i> bone formation following guided bone regeneration. <i>Clinical Oral Implants Research</i> , 2010, 21, 71-79.	4.5	76

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19	Partial characterization of an immortalized human trophoblast cell-line, TCL-1, which possesses a CSF-1 autocrine loop. <i>Placenta</i> , 1996, 17, 137-146.	1.5	75
20	Characterization and optimization of a simple, repeatable system for the long term in vitro culture of aligned myotubes in 3D. <i>Journal of Cellular Biochemistry</i> , 2012, 113, 1044-1053.	2.6	73
21	alphav integrins play an important role in myofibroblast differentiation. <i>Wound Repair and Regeneration</i> , 2004, 12, 461-470.	3.0	72
22	Factors affecting the structure and maturation of human tissue engineered skeletal muscle. <i>Biomaterials</i> , 2013, 34, 5759-5765.	11.4	69
23	Early detection of oral cancer – Is dielectrophoresis the answer?. <i>Oral Oncology</i> , 2007, 43, 199-203.	1.5	67
24	Neuromuscular Junction Formation in Tissue-Engineered Skeletal Muscle Augments Contractile Function and Improves Cytoskeletal Organization. <i>Tissue Engineering - Part A</i> , 2015, 21, 2595-2604.	3.1	63
25	Modelling <i>in vivo</i> skeletal muscle ageing <i>in vitro</i> using three-dimensional bioengineered constructs. <i>Aging Cell</i> , 2012, 11, 986-995.	6.7	62
26	The acute angiogenic signalling response to low-load resistance exercise with blood flow restriction. <i>European Journal of Sport Science</i> , 2018, 18, 397-406.	2.7	57
27	Myogenic precursor cells in craniofacial muscles. <i>Oral Diseases</i> , 2007, 13, 134-140.	3.0	56
28	Synergy between myogenic and non-myogenic cells in a 3D tissue-engineered craniofacial skeletal muscle construct. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2008, 2, 408-417.	2.7	56
29	The effect of cell density on the maturation and contractile ability of muscle derived cells in a 3D tissue-engineered skeletal muscle model and determination of the cellular and mechanical stimuli required for the synthesis of a postural phenotype. <i>Journal of Cellular Physiology</i> , 2010, 225, 646-653.	4.1	53
30	Annexin-enriched osteoblast-derived vesicles act as an extracellular site of mineral nucleation within developing stem cell cultures. <i>Scientific Reports</i> , 2017, 7, 12639.	3.3	53
31	Role of vitronectin and fibronectin receptors in oral mucosal and dermal myofibroblast differentiation. <i>Biology of the Cell</i> , 2007, 99, 601-614.	2.0	52
32	Quantification of Anion and Cation Release from a Range of Ternary Phosphate-based Glasses with Fixed 45 mol% P2O5. <i>Journal of Biomaterials Applications</i> , 2005, 20, 65-80.	2.4	51
33	Impact of mechanical stretch on the cell behaviors of bone and surrounding tissues. <i>Journal of Tissue Engineering</i> , 2016, 7, 204173141561834.	5.5	51
34	Scalable 3D Printed Molds for Human Tissue Engineered Skeletal Muscle. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 20.	4.1	48
35	Androgens Affect Myogenesis In Vitro and Increase Local IGF-1 Expression. <i>Medicine and Science in Sports and Exercise</i> , 2012, 44, 610-615.	0.4	47
36	Reduction of myoblast differentiation following multiple population doublings in mouse C2C12 cells: A model to investigate ageing?. <i>Journal of Cellular Biochemistry</i> , 2011, 112, 3773-3785.	2.6	46

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37	Biocompatible 3D printed polymers via fused deposition modelling direct C ₂ /C ₁₂ cellular phenotype in vitro. Lab on A Chip, 2017, 17, 2982-2993.	6.0	46
38	Mechanical loading stimulates hypertrophy in tissue-engineered skeletal muscle: Molecular and phenotypic responses. Journal of Cellular Physiology, 2019, 234, 23547-23558.	4.1	45
39	High Magnesium Corrosion Rate has an Effect on Osteoclast and Mesenchymal Stem Cell Role During Bone Remodelling. Scientific Reports, 2018, 8, 10003.	3.3	45
40	The role of insulin-like-growth factor binding protein 2 (IGFBP2) and phosphatase and tensin homologue (PTEN) in the regulation of myoblast differentiation and hypertrophy. Growth Hormone and IGF Research, 2013, 23, 53-61.	1.1	42
41	Pexicrine effects of basement membrane components on paracrine signaling by renal tubular cells. Kidney International, 1996, 49, 48-58.	5.2	41
42	Soluble phosphate glass fibres for repair of bone-ligament interface. Journal of Materials Science: Materials in Medicine, 2005, 16, 1131-1136.	3.6	41
43	The extracellular matrix of muscle - implications for manipulation of the craniofacial musculature. European Journal of Oral Sciences, 2001, 109, 209-221.	1.5	40
44	Testosterone enables growth and hypertrophy in fusion impaired myoblasts that display myotube atrophy: deciphering the role of androgen and IGF-I receptors. Biogerontology, 2016, 17, 619-639.	3.9	40
45	Photodynamic therapy down-regulates the invasion promoting factors in human oral cancer. Archives of Oral Biology, 2006, 51, 1104-1111.	1.8	37
46	Acute mechanical overload increases IGF-I and MMP-9 mRNA in 3D tissue-engineered skeletal muscle. Biotechnology Letters, 2014, 36, 1113-1124.	2.2	37
47	Creating Interactions between Tissue-Engineered Skeletal Muscle and the Peripheral Nervous System. Cells Tissues Organs, 2016, 202, 143-158.	2.3	37
48	A three-dimensional in vitro model system to study the adaptation of craniofacial skeletal muscle following mechanostimulation. European Journal of Oral Sciences, 2005, 113, 218-224.	1.5	36
49	Development of a novel smart scaffold for human skeletal muscle regeneration. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, 162-171.	2.7	35
50	α 23 and α 25 integrins and their role in muscle precursor cell adhesion. Biology of the Cell, 2008, 100, 465-477.	2.0	33
51	Impaired hypertrophy in myoblasts is improved with testosterone administration. Journal of Steroid Biochemistry and Molecular Biology, 2013, 138, 152-161.	2.5	33
52	Identifying the Cellular Mechanisms Leading to Heterotopic Ossification. Calcified Tissue International, 2015, 97, 432-444.	3.1	33
53	Muscling in on stem cells. Biology of the Cell, 2006, 98, 203-214.	2.0	32
54	Feasibility and Biocompatibility of 3D-Printed Photopolymerized and Laser Sintered Polymers for Neuronal, Myogenic, and Hepatic Cell Types. Macromolecular Bioscience, 2018, 18, e1800113.	4.1	32

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55	Identification of matrix metalloproteinases and their tissue inhibitors type 1 and 2 in human masseter muscle. <i>Archives of Oral Biology</i> , 2000, 45, 431-440.	1.8	31
56	Epithelial cancer cells exhibit different electrical properties when cultured in 2D and 3D environments. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 5136-5141.	2.4	30
57	Value of laparotomy in the diagnosis of obscure gastrointestinal haemorrhage.. <i>Gut</i> , 1995, 37, 187-190.	12.1	28
58	A dielectrophoretic method of discrimination between normal oral epithelium, and oral and oropharyngeal cancer in a clinical setting. <i>Analyst, The</i> , 2015, 140, 5198-5204.	3.5	28
59	Resolvin E1 (R _v E ₁) attenuates LPS induced inflammation and subsequent atrophy in C2C12 myotubes. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 6094-6103.	2.6	27
60	The effect of experimental diabetes and glycaemic control on guided bone regeneration: histology and gene expression analyses. <i>Clinical Oral Implants Research</i> , 2018, 29, 139-154.	4.5	27
61	Northcroft Memorial Lecture 2005. <i>Journal of Orthodontics</i> , 2006, 33, 187-197.	1.0	25
62	Hypoxia Impairs Muscle Function and Reduces Myotube Size in Tissue Engineered Skeletal Muscle. <i>Journal of Cellular Biochemistry</i> , 2017, 118, 2599-2605.	2.6	25
63	Controlled Arrangement of Neuronal Cells on Surfaces Functionalized with Micropatterned Polymer Brushes. <i>ACS Omega</i> , 2018, 3, 12383-12391.	3.5	24
64	Bioengineered human skeletal muscle capable of functional regeneration. <i>BMC Biology</i> , 2020, 18, 145.	3.8	24
65	Defining the Balance between Regeneration and Pathological Ossification in Skeletal Muscle Following Traumatic Injury. <i>Frontiers in Physiology</i> , 2017, 8, 194.	2.8	23
66	Polydimethylsiloxane and poly(ether) ether ketone functionally graded composites for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 93, 130-142.	3.1	23
67	3D-printable zwitterionic nano-composite hydrogel system for biomedical applications. <i>Journal of Tissue Engineering</i> , 2020, 11, 204173142096729.	5.5	23
68	Differential Response of Activated versus Non-Activated Renal Fibroblasts to Tubular Epithelial Cells: A Model of Initiation and Progression of Fibrosis?. <i>Nephron Experimental Nephrology</i> , 1998, 6, 132-143.	2.2	21
69	Leucine elicits myotube hypertrophy and enhances maximal contractile force in tissue engineered skeletal muscle in vitro. <i>Journal of Cellular Physiology</i> , 2017, 232, 2788-2797.	4.1	21
70	Human airway smooth muscle maintain in situ cell orientation and phenotype when cultured on aligned electrospun scaffolds. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014, 307, L38-L47.	2.9	20
71	Single leg squat ratings by clinicians are reliable and predict excessive hip internal rotation moment. <i>Gait and Posture</i> , 2018, 61, 453-458.	1.4	20
72	Evidence for decidua-trophoblast interactions in early human pregnancy. <i>Human Reproduction</i> , 1993, 8, 965-968.	0.9	19

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73	Iron-phosphate glass fiber scaffolds for the hard-soft interface regeneration: The effect of fiber diameter and flow culture condition on cell survival and differentiation. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 87A, 1017-1026.	4.0	18
74	Human endometrial fibroblasts immortalized by simian virus 40 large T antigen differentiate in response to a decidualization stimulus. <i>Endocrinology</i> , 1996, 137, 2225-2231.	2.8	18
75	The effect of mechanical strain on protease production by keratinocytes. <i>British Journal of Dermatology</i> , 2007, 158, 396-398.	1.5	17
76	Downhill running and exercise in hot environments increase leukocyte Hsp72 (HSPA1A) and Hsp90 α (HSPC1) gene transcripts. <i>Journal of Applied Physiology</i> , 2015, 118, 996-1005.	2.5	17
77	PDGF is a potent initiator of bone formation in a tissue engineered model of pathological ossification. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e355-e367.	2.7	17
78	Sequential identification of a degradable phosphate glass scaffold for skeletal muscle regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014, 8, 801-810.	2.7	16
79	Regulation by interleukin-1 β of growth and collagenase production by choriocarcinoma cells. <i>Placenta</i> , 1994, 15, 13-20.	1.5	15
80	Brachial artery characteristics and microvascular filtration capacity in rock climbers. <i>European Journal of Sport Science</i> , 2015, 15, 296-304.	2.7	15
81	Adapting the Electrospinning Process to Provide Three Unique Environments for a Tri-layered <i>in vitro</i> Model of the Airway Wall. <i>Journal of Visualized Experiments</i> , 2015, , e52986.	0.3	14
82	An Assessment of Myotube Morphology, Matrix Deformation, and Myogenic mRNA Expression in Custom-Built and Commercially Available Engineered Muscle Chamber Configurations. <i>Frontiers in Physiology</i> , 2018, 9, 483.	2.8	14
83	Delayed Presentation of Intestinal Atresia and Intussusception - A Case Report and Literature Review. <i>European Journal of Pediatric Surgery</i> , 1993, 3, 296-298.	1.3	13
84	Stretching skeletal muscle in vitro: does it replicate in vivo physiology?. <i>Biotechnology Letters</i> , 2011, 33, 1513-1521.	2.2	13
85	Human-derived feeder fibroblasts for the culture of epithelial cells for clinical use. <i>Regenerative Medicine</i> , 2016, 11, 529-543.	1.7	13
86	The effect of chronic high insulin exposure upon metabolic and myogenic markers in C2C12 skeletal muscle cells and myotubes. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 5686-5695.	2.6	13
87	Characterising hyperinsulinemia-induced insulin resistance in human skeletal muscle cells. <i>Journal of Molecular Endocrinology</i> , 2020, 64, 125-132.	2.5	13
88	Electrospun gelatin-based scaffolds as a novel 3D platform to study the function of contractile smooth muscle cells <i>in vitro</i>. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 045039.	1.2	12
89	Functional regeneration of tissue engineered skeletal muscle <i>in vitro</i> is dependent on the inclusion of basement membrane proteins. <i>Cytoskeleton</i> , 2019, 76, 371-382.	2.0	12
90	Differentiation of Bioengineered Skeletal Muscle within a 3D Printed Perfusion Bioreactor Reduces Atrophic and Inflammatory Gene Expression. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 5525-5538.	5.2	12

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91	Bioengineered model of the human motor unit with physiologically functional neuromuscular junctions. <i>Scientific Reports</i> , 2021, 11, 11695.	3.3	12
92	“From Death, Lead Me to Immortality” –“ Mantra of Ageing Skeletal Muscle. <i>Current Genomics</i> , 2013, 14, 256-267.	1.6	12
93	Sport and exercise medicine consultants are reliable in assessing tendon neovascularity using ultrasound Doppler. <i>BMJ Open Sport and Exercise Medicine</i> , 2018, 4, e000298.	2.9	11
94	Development of tissue-engineered skeletal muscle manufacturing variables. <i>Biotechnology and Bioengineering</i> , 2019, 116, 2364-2376.	3.3	11
95	Mechanical loading of tissue engineered skeletal muscle prevents dexamethasone induced myotube atrophy. <i>Journal of Muscle Research and Cell Motility</i> , 2021, 42, 149-159.	2.0	11
96	Effect of capillary shear stress on recovery and osteogenic differentiation of muscle-derived precursor cell populations. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011, 5, 629-635.	2.7	10
97	Kinematic and kinetic differences between military patients with patellar tendinopathy and asymptomatic controls during single leg squats. <i>Clinical Biomechanics</i> , 2019, 62, 127-135.	1.2	10
98	Myosin proteins identified from masseter muscle using quantitative reverse transcriptase-polymerase chain reaction—a pilot study of the relevance to orthodontics. <i>European Journal of Orthodontics</i> , 2009, 31, 196-201.	2.4	9
99	Molecular Diagnosis in Orthodontics, Facial Orthopedics, and Orthognathic Surgery: Implications for Treatment Progress and Relapse. <i>Seminars in Orthodontics</i> , 2010, 16, 118-127.	1.4	9
100	The Hsp72 and Hsp90 α mRNA Responses to Hot Downhill Running Are Reduced Following a Prior Bout of Hot Downhill Running, and Occur Concurrently within Leukocytes and the Vastus Lateralis. <i>Frontiers in Physiology</i> , 2017, 8, 473.	2.8	9
101	Hyaluronan derived nanoparticle for simvastatin delivery: evaluation of simvastatin induced myotoxicity in tissue engineered skeletal muscle. <i>Biomaterials Science</i> , 2020, 8, 302-312.	5.4	9
102	Indices of extracellular matrix turnover in human masseter muscles as markers of craniofacial form—a preliminary study. <i>European Journal of Orthodontics</i> , 2008, 30, 217-225.	2.4	8
103	Force generation and protease gene expression in organotypic co-cultures of fibroblasts and keratinocytes. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2009, 3, 647-650.	2.7	7
104	Digitally Driven Aerosol Jet Printing to Enable Customisable Neuronal Guidance. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 722294.	3.7	7
105	Expression of an embryonic fibronectin splicing variant in human masseter muscle. <i>Archives of Oral Biology</i> , 1998, 43, 911-915.	1.8	5
106	The Role of Connective Tissue and Extracellular Matrix Signaling in Controlling Muscle Development, Function, and Response to Mechanical Forces. <i>Seminars in Orthodontics</i> , 2010, 16, 135-142.	1.4	5
107	Effect of acute normobaric hypoxia on the ventilatory threshold. <i>European Journal of Applied Physiology</i> , 2014, 114, 1555-1562.	2.5	5
108	Oral Mucosa Tissue Equivalents for the Treatment of Limbal Stem Cell Deficiency. <i>Advanced Biology</i> , 2020, 4, 1900265.	3.0	5

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109	Gradient biomimetic platforms for neurogenesis studies. Journal of Neural Engineering, 2022, 19, 011001.	3.5	5
110	Grouping patients for masseter muscle genotype-phenotype studies. Angle Orthodontist, 2012, 82, 261-266.	2.4	4
111	Skeletal Muscle Tissue Engineering. , 2015, , 567-592.		4
112	Neural and Aneural Regions Generated by the Use of Chemical Surface Coatings. ACS Biomaterials Science and Engineering, 2018, 4, 98-106.	5.2	4
113	Development of a 3D Tissue-Engineered Skeletal Muscle and Bone Co-culture System. Biotechnology Journal, 2020, 15, 1900106.	3.5	4
114	Physiological and pathophysiological concentrations of fatty acids induce lipid droplet accumulation and impair functional performance of tissue engineered skeletal muscle. Journal of Cellular Physiology, 2021, 236, 7033-7044.	4.1	4
115	High-Volume Image-Guided Injections in Achilles and Patellar Tendinopathy in a Young Active Military Population: A Double-Blind Randomized Controlled Trial. Orthopaedic Journal of Sports Medicine, 2022, 10, 232596712210883.	1.7	4
116	The Future? Craniofacial Skeletal Muscle Engineering as an Aid for the Management of Craniofacial Deformities. Seminars in Orthodontics, 2010, 16, 153-162.	1.4	3
117	Muscle-derived precursor cells isolated on the basis of differential adhesion properties respond differently to capillary flow. Biotechnology Letters, 2011, 33, 1481-1486.	2.2	3
118	Molecular changes in detrained & retrained adult jaw muscle. European Journal of Orthodontics, 2013, 35, 659-663.	2.4	3
119	Observation of Age-Related Decline in the Performance of the Transverse Abdominis Muscle. PM and R, 2016, 8, 45-50.	1.6	3
120	Host muscle cell infiltration in cell-seeded plastic compressed collagen constructs. Journal of Tissue Engineering and Regenerative Medicine, 2009, 3, 72-75.	2.7	2
121	The application of maximal heart rate predictive equations in hypoxic conditions. European Journal of Applied Physiology, 2015, 115, 277-284.	2.5	2
122	Muscle Tissue Engineering. , 2009, , 243-253.		2
123	Comment: Response to an article by Hamilton et al. on 'Effects of colony stimulating factor-1 on human extravillous trophoblast growth and invasion'. Journal of Endocrinology, 1999, 160, 319-320.	2.6	1
124	Regeneration of Jaw Muscle-Potential Cellular Mechanisms. Seminars in Orthodontics, 2010, 16, 147-152.	1.4	1
125	Masticatory Muscle Structure and Function. , 2012, , 91-109.		1
126	Tissue Engineered Animal Spraying Models for the Study of Joint and Muscle Diseases. , 2013, , .		1

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127	Impact of type-1 collagen hydrogel density on integrin-linked morphogenic response of SH-SY5Y neuronal cells. RSC Advances, 2021, 11, 33124-33135.	3.6	1
128	Human Oral Mucosal Fibroblasts from Limbal Stem Cell Deficient Patients as an Autologous Feeder Layer for Epithelial Cell Culture. Current Eye Research, 2022, , 1-10.	1.5	1
129	British Society for Matrix Biology Autumn Meeting – Joint with the UK Tissue & Cell Engineering Society, University of Bristol, UK. International Journal of Experimental Pathology, 2005, 86, A1-A56.	1.3	0