CITATION REPORT List of articles citing

Engineering Stem Cell Organoids

DOI: 10.1016/j.stem.2015.12.005 Cell Stem Cell, 2016, 18, 25-38.

Source: https://exaly.com/paper-pdf/65681888/citation-report.pdf

Version: 2024-04-09

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper IF	Citations
576	Personalized Medicine Approaches in Prostate Cancer Employing Patient Derived 3D Organoids and Humanized Mice. 2016 , 4, 64	22
575	Intestinal Organoids-Current and Future Applications. 2016 , 3,	7
574	Ex-Vivo Tissues Engineering Modeling for Reconstructive Surgery Using Human Adult Adipose Stem Cells and Polymeric Nanostructured Matrix. 2016 , 6,	14
573	Drug Discovery via Human-Derived Stem Cell Organoids. 2016 , 7, 334	55
572	Using induced pluripotent stem cells to understand retinal ciliopathy disease mechanisms and develop therapies. 2016 , 44, 1245-1251	15
571	Cerebral Organoids Recapitulate Epigenomic Signatures of the Human Fetal Brain. 2016, 17, 3369-3384	207
570	Modeling Cancer with Pluripotent Stem Cells. 2016 , 2, 485-494	26
569	Brain-Region-Specific Organoids Using Mini-bioreactors for Modeling ZIKV Exposure. 2016 , 165, 1238-1254	1165
568	Regeneration of the lung: Lung stem cells and the development of lung mimicking devices. 2016 , 17, 44	64
567	Organoids: Modeling Development and the Stem Cell Niche in a Dish. 2016 , 38, 590-600	232
566	Microcarrier-based platforms for in vitro expansion and differentiation of human pluripotent stem cells in bioreactor culture systems. 2016 , 234, 71-82	33
565	Contributions of Mammalian Chimeras to Pluripotent Stem Cell Research. Cell Stem Cell, 2016, 19, 163-178	46
564	Control theory meets synthetic biology. 2016 , 13,	131
563	Cell sheet mechanics: How geometrical constraints induce the detachment of cell sheets from concave surfaces. 2016 , 45, 85-97	24
562	How cells respond to environmental cues - insights from bio-functionalized substrates. <i>Journal of Cell Science</i> , 2017 , 130, 51-61	56
561	Dishing out mini-brains: Current progress and future prospects in brain organoid research. 2016 , 420, 199-209	185
560	The promises and challenges of human brain organoids as models of neuropsychiatric disease. 2016 , 22, 1220-1228	170

55	Tissue Engineering and Regenerative Medicine - New Initiatives for Individual Treatment Offers. 2016 , 43, 318-319		14	
55	Stem Cell Models of Human Brain Development. <i>Cell Stem Cell</i> , 2016 , 18, 736-748	18	216	
55	Genome engineering of stem cell organoids for disease modeling. 2017 , 8, 315-327		23	
55	Tissue engineering by decellularization and 3D bioprinting. 2017 , 20, 166-178		142	
55	Primary Human Testicular Cells Self-Organize into Organoids with Testicular Properties. 2017 , 8, 30-38		78	
55	Systematic time-dependent visualization and quantitation of the neurogenic rate in brain organoids. 2017 , 483, 94-100		2	
55	The Hippo pathway in tissue homeostasis and regeneration. 2017 , 8, 349-359		75	
55	Probing human brain evolution and development in organoids. 2017 , 44, 36-43		61	
55	Cellular self-assembly and biomaterials-based organoid models of development and diseases. 2017 , 53, 29-45		33	
55	Dawn of the organoid era: 3D tissue and organ cultures revolutionize the study of development, disease, and regeneration. 2017 , 39, 1600244		39	
54	Perspectives and Challenges of Pluripotent Stem Cells in Cardiac Arrhythmia Research. 2017 , 19, 23		8	
54	Interplay between metabolic identities in the intestinal crypt supports stem cell function. 2017 , $543,424-427$		239	
54	All-in-one 3D printed microscopy chamber for multidimensional imaging, the UniverSlide. 2017 , 7, 423	78	19	
54	46 Modeling neurodevelopmental and psychiatric diseases with human iPSCs. 2017 , 95, 1097-1109		11	
54	tumor culture systems for functional drug testing and therapy response prediction. 2017 , 3, FSO190		81	
54	Ethical issues in human organoid and gastruloid research. 2017 , 144, 942-945		51	
54	An injectable non-cross-linked hyaluronic-acid gel containing therapeutic spheroids of human adipose-derived stem cells. 2017 , 7, 1548		28	
54	Emulating Host-Microbiome Ecosystem of Human Gastrointestinal Tract in Vitro. 2017 , 13, 321-334		46	

541	Toward modeling the human nervous system in a dish: recent progress and outstanding challenges. 2017 , 12, 15-23	2
540	Magnetically levitated mesenchymal stem cell spheroids cultured with a collagen gel maintain phenotype and quiescence. 2017 , 8, 2041731417704428	37
539	Gene editing and clonal isolation of human induced pluripotent stem cells using CRISPR/Cas9. 2017 , 121-122, 29-44	28
538	Guided self-organization and cortical plate formation in human brain organoids. 2017, 35, 659-666	375
537	Dietary Regulation of Adult Stem Cells. 2017 , 3, 1-8	25
536	The case for applying tissue engineering methodologies to instruct human organoid morphogenesis. 2017 , 54, 35-44	35
535	Genome engineering in human pluripotent stem cells. 2017 , 15, 56-67	1
534	Induced pluripotent stem cell technology: a decade of progress. 2017 , 16, 115-130	701
533	Functional and Biomimetic Materials for Engineering of the Three-Dimensional Cell Microenvironment. 2017 , 117, 12764-12850	408
532	Single-cell gene expression analysis reveals regulators of distinct cell subpopulations among developing human neurons. 2017 , 27, 1783-1794	23
531	Hybrid-spheroids incorporating ECM like engineered fragmented fibers potentiate stem cell function by improved cell/cell and cell/ECM interactions. 2017 , 64, 161-175	42
530	Engineering Organoid Systems to Model Health and Disease. 2017 , 197-226	
529	Tailored Approaches in Drug Development and Diagnostics: From Molecular Design to Biological Model Systems. 2017 , 6, 1700258	25
528	Generation of Mouse Colon Crypts. 2017 , 3, 2502-2513	16
527	Three-dimensional automated reporter quantification (3D-ARQ) technology enables quantitative screening in retinal organoids. 2017 , 144, 3698-3705	41
526	In situ generation of human brain organoids on a micropillar array. 2017 , 17, 2941-2950	66
525	A novel cylindrical microwell featuring inverted-pyramidal opening for efficient cell spheroid formation without cell loss. 2017 , 9, 035006	17
524	Engineered Hydrogels in Cancer Therapy and Diagnosis. 2017 , 35, 1074-1087	91

523	3D Printing Polymers with Supramolecular Functionality for Biological Applications. 2017 , 18, 2669-2687	70
522	Shift of EMT gradient in 3D spheroid MSCs for activation of mesenchymal niche function. 2017 , 7, 6859	16
521	Spatiotemporal hydrogel biomaterials for regenerative medicine. 2017 , 46, 6532-6552	235
520	Present and future of modeling human brain development in 3D organoids. 2017 , 49, 47-52	64
519	Convergence of microengineering and cellular self-organization towards functional tissue manufacturing. 2017 , 1, 939-956	59
518	Stem Cell Microenvironments and Beyond. 2017,	1
517	Engineering multicellular systems: using synthetic biology to control tissue self-organization. 2017 , 4, 163-173	35
516	Bioprocess microfluidics: applying microfluidic devices for bioprocessing. 2017 , 18, 61-68	36
515	Synthetic gene circuits and cellular decision-making in human pluripotent stem cells. 2017, 5, 93-103	17
514	Manufacturing Cell Therapies Using Engineered Biomaterials. 2017 , 35, 971-982	25
513	Scaffold-Based and Scaffold-Free Testicular Organoids from Primary Human Testicular Cells. Methods in Molecular Biology, 2019 , 1576, 283-290	13
512	Conceptual and Experimental Tools to Understand Spatial Effects and Transport Phenomena in Nonlinear Biochemical Networks Illustrated with Patchy Switching. 2017 , 86, 333-356	8
511	Chimeric antigen receptor T cells for the treatment of cancer and the future of preclinical models for predicting their toxicities. 2017 , 9, 669-680	9
510	Neural organoids for disease phenotyping, drug screening and developmental biology studies. 2017 , 106, 85-93	29
509	Regeneration of complex oral organs using 3D cell organization technology. 2017 , 49, 84-90	3
508	The Need to Study, Mimic, and Target Stem Cell Niches. 2017 , 3-13	2
507	3D Bioprinting and In Vitro Cardiovascular Tissue Modeling. 2017 , 4,	49
506	Human iPSC-Derived Cerebellar Neurons from a Patient with Ataxia-Telangiectasia Reveal Disrupted Gene Regulatory Networks. 2017 , 11, 321	13

505	Tranylcypromine Causes Neurotoxicity and Represses BHC110/LSD1 in Human-Induced Pluripotent Stem Cell-Derived Cerebral Organoids Model. 2017 , 8, 626		18
504	Three-Dimensional Organoid System Transplantation Technologies in Future Treatment of Central Nervous System Diseases. 2017 , 2017, 5682354		7
503	2.9 Materials as Artificial Stem Cell Microenvironments ?. 2017 , 179-201		
502	3D brain Organoids derived from pluripotent stem cells: promising experimental models for brain development and neurodegenerative disorders. 2017 , 24, 59		76
501	Preclinical studies on stem cells as a prelude to clinical application: animal models or alternatives?. 2017 , 29,		1
500	3D High-Content Screening of Organoids for Drug Discovery. 2017 , 388-415		10
499	Translational potential of human brain organoids. 2018 , 5, 226-235		19
498	Generation of human brain region-specific organoids using a miniaturized spinning bioreactor. 2018 , 13, 565-580		192
497	Bioengineered Systems and Designer Matrices That Recapitulate the Intestinal Stem Cell Niche. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2018 , 5, 440-453.e1	7.9	42
496	Organoids in cancer research. 2018 , 18, 407-418		611
495	An in vivo model of functional and vascularized human brain organoids. 2018 , 36, 432-441		501
494	Self-organization of human iPS cells into trophectoderm mimicking cysts induced by adhesion restriction using microstructured mesh scaffolds. 2018 , 60, 183-194		8
493	hPSC-Derived Striatal Cells Generated Using a Scalable 3D Hydrogel Promote Recovery in a Huntington Disease Mouse Model. 2018 , 10, 1481-1491		32
492	The road to synthetic multicellularity. 2018 , 7, 60-67		7
491			
491	Personalized Cancer Medicine: An Organoid Approach. 2018, 36, 358-371		116
490	Personalized Cancer Medicine: An Organoid Approach. 2018, 36, 358-371 Integrated biocircuits: engineering functional multicellular circuits and devices. 2018, 15, 023001		3

(2018-2018)

487	Dynamics, ultrastructure and gene expression of human in vitro organized testis cells from testicular sperm extraction biopsies. 2018 , 24, 123-134	13
486	The bioconjugation mechanism of purine cross-linkers affects microstructure and cell response to ultra rapidly gelling purine-chitosan sponges. 2018 , 6, 602-613	8
485	Organoids required! A new path to understanding human brain development and disease. 2018, 15, 27-29	36
484	Rotating magnetic field-controlled fabrication of magnetic hydrogel with spatially disk-like microstructures. 2018 , 61, 1112-1122	11
483	3D Bioprinting of Artificial Tissues: Construction of Biomimetic Microstructures. 2018 , 18, e1800034	18
482	Generation of spatial-patterned early-developing cardiac organoids using human pluripotent stem cells. 2018 , 13, 723-737	74
481	3D tissue engineering, an emerging technique for pharmaceutical research. 2018, 8, 756-766	27
480	Modeling human diseases with induced pluripotent stem cells: from 2D to 3D and beyond. 2018 , 145,	121
479	Mechanical stabilization of proteolytically degradable polyethylene glycol dimethacrylate hydrogels through peptide interaction. 2018 , 71, 271-278	7
478	Bone marrow-on-a-chip: Long-term culture of human haematopoietic stem cells in a three-dimensional microfluidic environment. 2018 , 12, 479-489	98
477	Wnt/Yes-Associated Protein Interactions During Neural Tissue Patterning of Human Induced Pluripotent Stem Cells. 2018 , 24, 546-558	20
476	Organ-On-A-Chip Platforms: A Convergence of Advanced Materials, Cells, and Microscale Technologies. 2018 , 7, 1700506	155
475	Studying Kidney Disease Using Tissue and Genome Engineering in Human Pluripotent Stem Cells. 2018 , 138, 48-59	8
474	Derivation of Cortical Spheroids from Human Induced Pluripotent Stem Cells in a Suspension Bioreactor. 2018 , 24, 418-431	26
473	Toward Customized Extracellular Niche Engineering: Progress in Cell-Entrapment Technologies. 2018 , 30, 1703948	31
472	Neural Differentiation of Spheroids Derived from Human Induced Pluripotent Stem Cells-Mesenchymal Stem Cells Coculture. 2018 , 24, 915-929	17
471	Decellularized Matrix Produced by Mesenchymal Stem Cells Modulates Growth and Metabolic Activity of Hepatic Cell Cluster. 2018 , 4, 456-462	3
470	Advanced three-dimensional culture of equine intestinal epithelial stem cells. 2018 , 50, 241-248	14

469	Morphological alterations of cultured human colorectal matched tumour and healthy organoids. 2018 , 9, 10572-10584	12
468	Recursive of Least Square Based Online Calibration Method in Geomagnetic Detection. 2018 , 232, 04087	
467	Artificial lung. 2018 , 10, S2329-S2332	5
466	Mini and customized low-cost bioreactors for optimized high-throughput generation of tissue organoids. 2018 , 5, 33	19
465	In situ differentiation and generation of functional liver organoids from human iPSCs in a 3D perfusable chip system. 2018 , 18, 3606-3616	92
464	Adult Gastrointestinal Stem Cells for Potentially Treating Gastrointestinal Diseases. 2018,	
463	Generation of pancreatic Lells for treatment of diabetes: advances and challenges. 2018, 9, 355	51
462	Three-Dimensional Organoids in Cancer Research: The Search for the Holy Grail of Preclinical Cancer Modeling. 2018 , 22, 733-748	22
461	Current Trends and Challenges in Biofabrication Using Biomaterials and Nanomaterials: Future Perspectives for 3D/4D Bioprinting. 2018 , 373-421	5
460	3D bioprinting technologies and bioinks for therapeutic and tissue engineering applications. 2018 , 2, 187-203	4
459	Nicotinamide Promotes Cell Survival and Differentiation as Kinase Inhibitor in Human Pluripotent Stem Cells. 2018 , 11, 1347-1356	44
458	Differential Effects of Heparin and Hyaluronic Acid on Neural Patterning of Human Induced Pluripotent Stem Cells. 2018 , 4, 4354-4366	15
457	Directly Induced Neural Differentiation of Human Adipose-Derived Stem Cells Using Three-Dimensional Culture System of Conductive Microwell with Electrical Stimulation. 2018 , 24, 537-545	23
456	Organotypic 3D Culture in Nanoscaffold Microwells Supports Salivary Gland Stem-Cell-Based Organization. 2018 , 4, 4311-4320	23
455	Supramolecular complexes for nanomedicine. 2018 , 28, 3290-3301	16
454	A Three-Dimensional Organoid Culture Model to Assess the Influence of Chemicals on Morphogenetic Fusion. 2018 , 166, 394-408	15
453	Progress and potential in organoid research. 2018 , 19, 671-687	354
452	Millifluidic culture improves human midbrain organoid vitality and differentiation. 2018 , 18, 3172-3183	61

451	Type III Interferons in Antiviral Defenses at Barrier Surfaces. 2018 , 39, 848-858	61
450	Towards organogenesis and morphogenesis in vitro: harnessing engineered microenvironment and autonomous behaviors of pluripotent stem cells. 2018 , 10, 574-586	5
449	Origami Biosystems: 3D Assembly Methods for Biomedical Applications. 2018 , 2, 1800230	39
448	3D human brain cell models: New frontiers in disease understanding and drug discovery for neurodegenerative diseases. 2018 , 120, 191-199	22
447	Concise Review: Current Status of Three-Dimensional Organoids as Preclinical Models. 2018 , 36, 1329-1340	67
446	Fabrication of in vitro 3D mineralized tissue by fusion of composite spheroids incorporating biomineral-coated nanofibers and human adipose-derived stem cells. 2018 , 74, 464-477	30
445	Designer human tissue: coming to a lab near you. 2018 , 373,	
444	Challenges in Bio-fabrication of Organoid Cultures. 2018 , 1107, 53-71	22
443	Drug screening for human genetic diseases using iPSC models. 2018 , 27, R89-R98	70
442	MTOR pathway in focal cortical dysplasia type 2: What do we know?. 2018 , 85, 157-163	5
442	MTOR pathway in focal cortical dysplasia type 2: What do we know?. 2018 , 85, 157-163 Three-Dimensional Bioreactor Technologies for the Cocultivation of Human Mesenchymal Stem/Stromal Cells and Beta Cells. 2018 , 2018, 2547098	12
	Three-Dimensional Bioreactor Technologies for the Cocultivation of Human Mesenchymal	
441	Three-Dimensional Bioreactor Technologies for the Cocultivation of Human Mesenchymal Stem/Stromal Cells and Beta Cells. 2018 , 2018, 2547098 Agglomeration of human dermal fibroblasts with ECM mimicking nano-fragments and their effects	12
441 440	Three-Dimensional Bioreactor Technologies for the Cocultivation of Human Mesenchymal Stem/Stromal Cells and Beta Cells. 2018 , 2018, 2547098 Agglomeration of human dermal fibroblasts with ECM mimicking nano-fragments and their effects on proliferation and cell/ECM interactions. 2018 , 67, 80-91 Molecular Mechanism of Autonomy and Self-Organization: An Emerging Concept for the Future of	12
441 440 439	Three-Dimensional Bioreactor Technologies for the Cocultivation of Human Mesenchymal Stem/Stromal Cells and Beta Cells. 2018, 2018, 2547098 Agglomeration of human dermal fibroblasts with ECM mimicking nano-fragments and their effects on proliferation and cell/ECM interactions. 2018, 67, 80-91 Molecular Mechanism of Autonomy and Self-Organization: An Emerging Concept for the Future of Biomedical Sciences. 2018, 111-127	8
441 440 439 438	Three-Dimensional Bioreactor Technologies for the Cocultivation of Human Mesenchymal Stem/Stromal Cells and Beta Cells. 2018, 2018, 2547098 Agglomeration of human dermal fibroblasts with ECM mimicking nano-fragments and their effects on proliferation and cell/ECM interactions. 2018, 67, 80-91 Molecular Mechanism of Autonomy and Self-Organization: An Emerging Concept for the Future of Biomedical Sciences. 2018, 111-127 Scutoids are a geometrical solution to three-dimensional packing of epithelia. 2018, 9, 2960	12 8 56
441 440 439 438 437	Three-Dimensional Bioreactor Technologies for the Cocultivation of Human Mesenchymal Stem/Stromal Cells and Beta Cells. 2018, 2018, 2547098 Agglomeration of human dermal fibroblasts with ECM mimicking nano-fragments and their effects on proliferation and cell/ECM interactions. 2018, 67, 80-91 Molecular Mechanism of Autonomy and Self-Organization: An Emerging Concept for the Future of Biomedical Sciences. 2018, 111-127 Scutoids are a geometrical solution to three-dimensional packing of epithelia. 2018, 9, 2960 Human Microphysiological Systems and Organoids as Models for Toxicological Studies. 2018, 6, 185	12 8 56 38

433	Towards Multi-Organoid Systems for Drug Screening Applications. 2018, 5,		34
432	65 YEARS OF THE DOUBLE HELIX: The advancements of gene editing and potential application to hereditary cancer. 2018 , 25, T141-T158		1
431	Disease Modeling Using 3D Organoids Derived from Human Induced Pluripotent Stem Cells. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	76
430	Adult Stem Cells Spheroids to Optimize Cell Colonization in Scaffolds for Cartilage and Bone Tissue Engineering. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	40
429	Modelling Alzheimerß disease: Insights from in vivo to in vitro three-dimensional culture platforms. 2018 , 12, 1944-1958		13
428	Organoids Provide an Important Window on Inflammation in Cancer. 2018 , 10,		20
427	Studying the Brain in a Dish: 3D Cell Culture Models of Human Brain Development and Disease. 2018 , 129, 99-122		23
426	Novel Biological and Technological Platforms for Dental Clinical Use. 2018 , 9, 1102		11
425	Stem cell bioengineering: building from stem cell biology. 2018 , 19, 595-614		51
424	Cell-based therapies and natural compounds for pain. 2018 , 44, 186-194		
424	Cell-based therapies and natural compounds for pain. 2018 , 44, 186-194 Generation of Liver Organoids and Their Potential Applications. 2018 , 115-144		
			4
423	Generation of Liver Organoids and Their Potential Applications. 2018 , 115-144 Comparison of Hematopoietic and Spermatogonial Stem Cell Niches from the Regenerative		4 33
4 ² 3	Generation of Liver Organoids and Their Potential Applications. 2018, 115-144 Comparison of Hematopoietic and Spermatogonial Stem Cell Niches from the Regenerative Medicine Aspect. 2018, 1107, 15-40		
423 422 421	Generation of Liver Organoids and Their Potential Applications. 2018, 115-144 Comparison of Hematopoietic and Spermatogonial Stem Cell Niches from the Regenerative Medicine Aspect. 2018, 1107, 15-40 Stem cell-based retina models. 2019, 140, 33-50		33
423 422 421 420	Generation of Liver Organoids and Their Potential Applications. 2018, 115-144 Comparison of Hematopoietic and Spermatogonial Stem Cell Niches from the Regenerative Medicine Aspect. 2018, 1107, 15-40 Stem cell-based retina models. 2019, 140, 33-50 Lattice and continuum modelling of a bioactive porous tissue scaffold. 2019, 36, 325-360		33
423 422 421 420 419	Generation of Liver Organoids and Their Potential Applications. 2018, 115-144 Comparison of Hematopoietic and Spermatogonial Stem Cell Niches from the Regenerative Medicine Aspect. 2018, 1107, 15-40 Stem cell-based retina models. 2019, 140, 33-50 Lattice and continuum modelling of a bioactive porous tissue scaffold. 2019, 36, 325-360 3D Bioprinting Technologies. 2019, 1-66		33

415	Improvement of cognitive functions by oral intake of Hericium erinaceus. 2019 , 40, 125-131		9
414	Retinal disease in ciliopathies: Recent advances with a focus on stem cell-based therapies. 2019 , 4, 97-11	5	11
413	Engineering tissue-specific blood vessels. 2019 , 4, e10139		8
412	Fabrication of 3D scaffolds reproducing intestinal epithelium topography by high-resolution 3D stereolithography. <i>Biomaterials</i> , 2019 , 221, 119404	15.6	52
411	Advances in Hydrogels in Organoids and Organs-on-a-Chip. 2019 , 31, e1902042		130
410	Advances and Current Challenges in Intestinal Model Engineering: A Digest. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 144	5.8	70
409	Accelerated photoreceptor differentiation of hiPSC-derived retinal organoids by contact co-culture with retinal pigment epithelium. 2019 , 39, 101491		33
408	Tumor necrosis factor-inducible gene 6 reprograms hepatic stellate cells into stem-like cells, which ameliorates liver damage in mouse. <i>Biomaterials</i> , 2019 , 219, 119375	15.6	12
407	Construction of 3D Cellular Composites with Stem Cells Derived from Adipose Tissue and Endothelial Cells by Use of Optical Tweezers in a Natural Polymer Solution. 2019 , 12,		2
406	The brain-placental axis: Therapeutic and pharmacological relevancy to pregnancy. 2019 , 149, 104468		13
405	Development of organoid-based drug metabolism model. 2019 , 385, 114790		13
404	In Vitro 3D Cultures to Reproduce the Bone Marrow Niche. 2019 , 3, e10228		6
403	Improved Retinal Organoid Differentiation by Modulating Signaling Pathways Revealed by Comparative Transcriptome Analyses with Development In Vivo. 2019 , 13, 891-905		49
402	Mathematical Models of Organoid Cultures. 2019 , 10, 873		21
401	Biomanufacturing of organ-specific tissues with high cellular density and embedded vascular channels. 2019 , 5, eaaw2459		298
400	Mechanobiology of cells and cell systems, such as organoids. 2019 , 11, 721-728		11
399	Organoids. Methods in Molecular Biology, 2019 ,	1.4	О
398	Modeling cell-cell interactions in the brain using cerebral organoids. 2019 , 1724, 146458		7

397	Bundled Three-Dimensional Human Axon Tracts Derived from Brain Organoids. <i>IScience</i> , 2019 , 21, 57-67 6.1	18
396	Engineering of human brain organoids with a functional vascular-like system. 2019 , 16, 1169-1175	285
395	Brain Organoids-A Bottom-Up Approach for Studying Human Neurodevelopment. 2019 , 6,	19
394	WW Domain-Containing Proteins YAP and TAZ in the Hippo Pathway as Key Regulators in Stemness Maintenance, Tissue Homeostasis, and Tumorigenesis. 2019 , 9, 60	60
393	Liver Tumor Spheroid Reconstitution for Testing Mitochondrial Targeted Magnetic Hyperthermia Treatment. 2019 , 5, 1635-1644	8
392	Human iPS Cell-Derived Patient Tissues and 3D Cell Culture Part 2: Spheroids, Organoids, and Disease Modeling. 2019 , 24, 18-27	15
391	Enteroviruses: A Gut-Wrenching Game of Entry, Detection, and Evasion. 2019 , 11,	36
390	Cancer Immunotherapies and Humanized Mouse Drug Testing Platforms. 2019 , 12, 987-995	26
389	Optogenetics in the Era of Cerebral Organoids. 2019 , 37, 1282-1294	15
388	Scaffolds for intestinal tissue engineering. 2019 , 593-632	2
388	Scaffolds for intestinal tissue engineering. 2019, 593-632 Organoids-on-a-chip. 2019, 364, 960-965	249
387	Organoids-on-a-chip. 2019 , 364, 960-965	249
387	Organoids-on-a-chip. 2019 , 364, 960-965 Organoids are promising tools for species-specific in vitro toxicological studies. 2019 , 39, 1610-1622	249 37
387 386 385	Organoids-on-a-chip. 2019 , 364, 960-965 Organoids are promising tools for species-specific in vitro toxicological studies. 2019 , 39, 1610-1622 The use of iPSC technology for modeling Autism Spectrum Disorders. 2019 , 130, 104483	249 37 15
387 386 385 384	Organoids-on-a-chip. 2019, 364, 960-965 Organoids are promising tools for species-specific in vitro toxicological studies. 2019, 39, 1610-1622 The use of iPSC technology for modeling Autism Spectrum Disorders. 2019, 130, 104483 3D Analysis of Multi-cellular Responses to Chemoattractant Gradients. 2019, At the Intersection of Epigenetics and Regeneration: An Analysis of the Experimental Outlook of	24937152
387 386 385 384 383	Organoids-on-a-chip. 2019, 364, 960-965 Organoids are promising tools for species-specific in vitro toxicological studies. 2019, 39, 1610-1622 The use of iPSC technology for modeling Autism Spectrum Disorders. 2019, 130, 104483 3D Analysis of Multi-cellular Responses to Chemoattractant Gradients. 2019, At the Intersection of Epigenetics and Regeneration: An Analysis of the Experimental Outlook of Organoid Technology. 2019, 385-402	249 37 15 2

379	Design Principles for Pluripotent Stem Cell-Derived Organoid Engineering. 2019, 2019, 4508470	15
378	Organs to Cells and Cells to Organoids: The Evolution of Central Nervous System Modelling. 2019 , 13, 129	39
377	Microfluidic devices towards personalized health and wellbeing. 2019 , 94, 2412-2415	2
376	The Use of Pluripotent Stem Cell-Derived Organoids to Study Extracellular Matrix Development during Neural Degeneration. <i>Cells</i> , 2019 , 8,	11
375	A Chemically Well-Defined, Self-Assembling 3D Substrate for Long-Term Culture of Human Pluripotent Stem Cells <i>ACS Applied Bio Materials</i> , 2019 , 2, 1406-1412	5
374	Engineered Tissue Development in Biofabricated 3D Geometrical Confinement-A Review. 2019 , 5, 3688-3702	10
373	Engineering Microfluidic Organoid-on-a-Chip Platforms. 2019 , 10,	85
372	All models are wrong, but some organoids may be useful. 2019 , 20, 66	19
371	Modeling Human Brain Circuitry Using Pluripotent Stem Cell Platforms. 2019 , 7, 57	16
370	Assembly of Human Stem Cell-Derived Cortical Spheroids and Vascular Spheroids to Model 3-D Brain-like Tissues. 2019 , 9, 5977	64
369	Studying Heterotypic Cell?Cell Interactions in the Human Brain Using Pluripotent Stem Cell Models for Neurodegeneration. <i>Cells</i> , 2019 , 8,	10
368	Quantitative Label-Free Imaging of 3D Vascular Networks Self-Assembled in Synthetic Hydrogels. 2019 , 8, e1801186	10
367	Experimental and Computational Methods for the Study of Cerebral Organoids: A Review. 2019 , 13, 162	24
366	Dynamic in vitro models for tumor tissue engineering. 2019 , 449, 178-185	9
365	Human Pluripotent Stem Cells: Applications and Challenges for Regenerative Medicine and Disease Modeling. 2020 , 171, 189-224	0
364	Development of the human placenta. 2019 , 146,	139
363	Pharmacokinetic and pharmacodynamic insights from microfluidic intestine-on-a-chip models. 2019 , 15, 1005-1019	24
362	Prevalent Technologies for In Vitro Tissue/Organ Modeling. 2019 , 13-23	

361	Circulating tumor cells in precision oncology: clinical applications in liquid biopsy and 3D organoid model. 2019 , 19, 341	43
360	On the Road to Accurate Biomarkers for Cardiometabolic Diseases by Integrating Precision and Gender Medicine Approaches. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	8
359	Oral Presentation Full Texts & Abstracts. 2019 , 44, 24-64	
358	Organoids from the Human Fetal and Adult Pancreas. 2019 , 19, 160	15
357	Long-term flow through human intestinal organoids with the gut organoid flow chip (GOFlowChip). 2019 , 19, 3552-3562	33
356	The Horizon of the Emulsion Particulate Strategy: Engineering Hollow Particles for Biomedical Applications. 2019 , 31, e1801159	20
355	Constructing artificial urinary conduits: current capabilities and future potential. 2019, 16, 135-144	2
354	Human Cardiac Organoids for Disease Modeling. 2019 , 105, 79-85	58
353	Bioengineering-inspired three-dimensional culture systems: Organoids to create tumor microenvironment. 2019 , 686, 203-212	42
352	Induction of steady-state glomeruloid sphere by self-assembly from human embryonic kidney cells. 2019 , 508, 654-659	1
351	Accomplishments and challenges in stem cell imaging in vivo. <i>Drug Discovery Today</i> , 2019 , 24, 492-504 8.8	20
350	In vitro and ex vivo systems at the forefront of infection modeling and drug discovery. <i>Biomaterials</i> , 2019 , 198, 228-249	22
349	Human 3D Gastrointestinal Microtissue Barrier Function As a Predictor of Drug-Induced Diarrhea. 2019 , 168, 3-17	17
348	Long intergenic noncoding RNAs in cardiovascular diseases: Challenges and strategies for physiological studies and translation. 2019 , 281, 180-188	16
347	Intestinal organoids: A new paradigm for engineering intestinal epithelium in vitro. <i>Biomaterials</i> , 2019 , 194, 195-214	35
346	A reproducible scaffold-free 3D organoid model to study neoplastic progression in breast cancer. 2019 , 13, 129-143	29
345	Brain Organoids: A New, Transformative Investigational Tool for Neuroscience Research. 2019 , 3, e1800174	3
344	Messenger RNA Delivery for Tissue Engineering and Regenerative Medicine Applications. 2019 , 25, 91-112	34

343	Blood vessel formation in cerebral organoids formed from human embryonic stem cells. 2020 , 521, 84-90)	45
342	Towards manufacturing of human organoids. 2020 , 39, 107460		26
341	Three-dimensional differentiation of human pluripotent stem cell-derived neural precursor cells using tailored porous polymer scaffolds. 2020 , 101, 102-116		17
340	Gut-on-a-chip microphysiological systems for the recapitulation of the gut microenvironment. 2020 , 295-310		2
339	Ascorbic Acid 2-Glucoside Stably Promotes the Primitiveness of Embryonic and Mesenchymal Stem Cells Through Ten-Eleven Translocation- and cAMP-Responsive Element-Binding Protein-1-Dependent Mechanisms. 2020 , 32, 35-59		8
338	Developing a Multidisciplinary Approach for Engineering Stem Cell Organoids. 2020 , 48, 1895-1904		6
337	Engineering 3D parallelized microfluidic droplet generators with equal flow profiles by computational fluid dynamics and stereolithographic printing. 2020 , 20, 490-495		14
336	Pluripotent stem cell biology and engineering. 2020 , 1-31		
335	Organoids: Past Learning and Future Directions. 2020 , 29, 281-289		10
334	Advanced Bottom-Up Engineering of Living Architectures. 2020 , 32, e1903975		65
333	Organoids for cell therapy and drug discovery. 2020 , 461-471		2
332	Acoustic Holographic Cell Patterning in a Biocompatible Hydrogel. 2020 , 32, e1904181		57
331	CNS organoids: an innovative tool for neurological disease modeling and drug neurotoxicity screening. <i>Drug Discovery Today</i> , 2020 , 25, 456-465	3.8	19
330	Therapeutic "Tool" in Reconstruction and Regeneration of Tissue Engineering for Osteochondral Repair. 2020 , 191, 785-809		8
329	Bioengineering Novel Co-culture Models That Represent the Human Intestinal Mucosa With Improved Caco-2 Structure and Barrier Function. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 992	5.8	9
328	Recent progress in translational engineered in vitro models of the central nervous system. 2020 , 143, 3181-3213		26
327	The Application of Brain Organoids: From Neuronal Development to Neurological Diseases. 2020 , 8, 579659		25
326	Spheroid formation of human keratinocyte: Balancing between cell-substrate and cell-cell interaction. 2020 , 76, 329-340		2

325	Generation of brain organoids from mouse ESCs via teratoma formation. 2020 , 49, 102100	1
324	Human Cardiac Organoids for Modeling Genetic Cardiomyopathy. <i>Cells</i> , 2020 , 9, 7.9	15
323	Polyisocyanide Hydrogels as a Tunable Platform for Mammary Gland Organoid Formation. 2020 , 7, 2001797	18
322	Brain Organoids: Tiny Mirrors of Human Neurodevelopment and Neurological Disorders. 2021 , 27, 388-426	6
321	Human Microphysiological Models of Intestinal Tissue and Gut Microbiome. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 725	22
320	Intestinal Organoid Culture in Polymer Film-Based Microwell Arrays. 2020 , 4, e2000126	8
319	Application of organoids in translational research of human diseases with a particular focus on gastrointestinal cancers. 2020 , 1873, 188350	9
318	Advanced Materials to Enhance Central Nervous System Tissue Modeling and Cell Therapy. 2020 , 30, 2002931	2
317	Capturing Multicellular System Designs Using Synthetic Biology Open Language (SBOL). 2020 , 9, 2410-2417	
316	Microtechnology-based methods for organoid models. 2020 , 6, 76	52
315	Microtechnology-based methods for organoid models. 2020 , 6, 76 3D brain tissue physiological model with co-cultured primary neurons and glial cells in hydrogels. 2020 , 11, 2041731420963981	3
	3D brain tissue physiological model with co-cultured primary neurons and glial cells in hydrogels.	
315	3D brain tissue physiological model with co-cultured primary neurons and glial cells in hydrogels. 2020, 11, 2041731420963981 Electrophysiological Maturation of Cerebral Organoids Correlates with Dynamic Morphological and	3
315 314	3D brain tissue physiological model with co-cultured primary neurons and glial cells in hydrogels. 2020, 11, 2041731420963981 Electrophysiological Maturation of Cerebral Organoids Correlates with Dynamic Morphological and Cellular Development. 2020, 15, 855-868 New Bioink Derived from Neonatal Chicken Bone Marrow Cells and Its 3D-Bioprinted Niche for	3 34
315 314 313	3D brain tissue physiological model with co-cultured primary neurons and glial cells in hydrogels. 2020, 11, 2041731420963981 Electrophysiological Maturation of Cerebral Organoids Correlates with Dynamic Morphological and Cellular Development. 2020, 15, 855-868 New Bioink Derived from Neonatal Chicken Bone Marrow Cells and Its 3D-Bioprinted Niche for Osteogenic Stimulators. ACS Applied Materials & Description (2020), 12, 49386-49397 Self-Organizing Human Induced Pluripotent Stem Cell Hepatocyte 3D Organoids Inform the	3 34 5
315 314 313 312	3D brain tissue physiological model with co-cultured primary neurons and glial cells in hydrogels. 2020, 11, 2041731420963981 Electrophysiological Maturation of Cerebral Organoids Correlates with Dynamic Morphological and Cellular Development. 2020, 15, 855-868 New Bioink Derived from Neonatal Chicken Bone Marrow Cells and Its 3D-Bioprinted Niche for Osteogenic Stimulators. ACS Applied Materials & Samp; Interfaces, 2020, 12, 49386-49397 Self-Organizing Human Induced Pluripotent Stem Cell Hepatocyte 3D Organoids Inform the Biology of the Pleiotropic Gene. 2020, 4, 1316-1331 Mesenchymal Stem Cells as a Promising Cell Source for Integration in Novel In Vitro Models. 2020,	33455
315 314 313 312 311	3D brain tissue physiological model with co-cultured primary neurons and glial cells in hydrogels. 2020, 11, 2041731420963981 Electrophysiological Maturation of Cerebral Organoids Correlates with Dynamic Morphological and Cellular Development. 2020, 15, 855-868 New Bioink Derived from Neonatal Chicken Bone Marrow Cells and Its 3D-Bioprinted Niche for Osteogenic Stimulators. ACS Applied Materials & Description of Action Stimulators. ACS Applied Materials & Description of Cell Hepatocyte 3D Organoids Inform the Biology of the Pleiotropic Gene. 2020, 4, 1316-1331 Mesenchymal Stem Cells as a Promising Cell Source for Integration in Novel In Vitro Models. 2020, 10,	 3 34 5 7

(2020-2020)

307	Bio-Medical applications of Additive Manufacturing: A Review. 2020 , 51, 663-670	7
306	Patient-Derived Tumor Organoids for Drug Repositioning in Cancer Care: A Promising Approach in the Era of Tailored Treatment. 2020 , 12,	8
305	Disease modeling and stem cell immunoengineering in regenerative medicine using CRISPR/Cas9 systems. 2020 , 18, 3649-3665	5
304	Transcranial Magnetic Stimulation-Induced Plasticity Mechanisms: TMS-Related Gene Expression and Morphology Changes in a Human Neuron-Like Cell Model. 2020 , 13, 528396	7
303	Defining the Teratoma as a Model for Multi-lineage Human Development. 2020 , 183, 1402-1419.e18	12
302	Biomaterials-based approaches to model embryogenesis. 2020 , 8, 6992-7013	4
301	Biomimetic Design for Bio-Matrix Interfaces and Regenerative Organs. 2021 , 27, 411-429	1
300	Polymer Hydrogels to Guide Organotypic and Organoid Cultures. 2020 , 30, 2000097	28
299	Mimicking tumor hypoxia and tumor-immune interactions employing three-dimensional in vitro models. 2020 , 39, 75	25
298	A Primer on Human Brain Organoids for the Neurosurgeon. 2020 , 87, 620-629	5
297	Challenges, applications and future directions of precision medicine in prostate cancer - the role of organoids and patient-derived xenografts. 2020 , 126, 65-72	6
296	Three-Dimensional Printed Stamps for the Fabrication of Patterned Microwells and High-Throughput Production of Homogeneous Cell Spheroids. 2020 , 7, 139-147	6
295	In vitro three-dimensional culture systems of salivary glands. 2020 , 70, 493-501	3
294	Microphysiological Systems: Design, Fabrication, and Applications. 2020 , 6, 3231-3257	13
293	Thermoresponsive poly(N-isopropylacrylamide) hydrogel substrates micropatterned with poly(ethylene glycol) hydrogel for adipose mesenchymal stem cell spheroid formation and retrieval. 2020 , 115, 111128	4
292	Tissue engineering of the biliary tract and modelling of cholestatic disorders. 2020 , 73, 918-932	5
291	Organotypic Culturing as a Way to Study Recovery Opportunities of the Eye Retina in Vertebrates and Humans. 2020 , 51, 31-44	1
290	Composite Hydrogels in Three-Dimensional Models. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 611	28

289	In Vivo and In Vitro Models of Diabetes: A Focus on Pregnancy. 2021, 1307, 553-576		2
288	Near Infrared Light Triggered Photo/Immuno-Therapy Toward Cancers. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 488	5.8	30
287	Organoid technology in female reproductive biomedicine. 2020 , 18, 64		16
286	Transcriptomic Analysis of the Developmental Similarities and Differences Between the Native Retina and Retinal Organoids. 2020 , 61, 6		8
285	Fabrication of Dentin-Pulp-Like Organoids Using Dental-Pulp Stem Cells. Cells, 2020, 9,	7.9	11
284	Topographic Cues Impact on Embryonic Stem Cell Zscan4-Metastate. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 178	5.8	2
283	Is It Time to Start Transitioning From 2D to 3D Cell Culture?. 2020 , 7, 33		268
282	Gaining New Biological and Therapeutic Applications into the Liver with 3D In Vitro Liver Models. 2020 , 17, 731-745		7
281	Innovations in 3-Dimensional Tissue Models of Human Brain Physiology and Diseases. 2020 , 30, 190914	6	19
2 80	The recent advances in the mathematical modelling of human pluripotent stem cells. 2020 , 2, 276		6
279	Three-dimensional culture systems in central nervous system research. 2020 , 571-601		1
278	Bioengineering of Human Corneal Endothelial Cells from Single- to Four-Dimensional Cultures. 2020 , 8, 172-184		2
277	A Handbook of Gene and Cell Therapy. 2020 ,		1
276	Organoids to study immune functions, immunological diseases and immunotherapy. 2020 , 477, 31-40		21
275	Microbiome in Colorectal Cancer: How to Get from Meta-omics to Mechanism?. 2020 , 28, 401-423		58
274	Designer Biomaterials to Model Cancer Cell Invasion In Vitro: Predictive Tools or Just Pretty Pictures?. 2020 , 30, 1909032		6
273	Generation of homogeneous midbrain organoids with in vivo-like cellular composition facilitates neurotoxin-based Parkinson® disease modeling. 2020 , 38, 727-740		34
272	Are the biomedical sciences ready for synthetic biology?. 2020 , 11, 23-31		1

271	Cell-Instructive Multiphasic Gel-in-Gel Materials. 2020 , 30, 1908857		16
270	Commercialization of Organoids. 2020 , 26, 245-249		15
269	Bioengineered 3D Models to Recapitulate Tissue Fibrosis. 2020 , 38, 623-636		33
268	Advances in Hybrid Fabrication toward Hierarchical Tissue Constructs. 2020 , 7, 1902953		52
267	Organoid technology for tissue engineering. 2020 , 12, 569-579		14
266	Production of Human Pluripotent Stem Cell-Derived Hepatic Cell Lineages and Liver Organoids: Current Status and Potential Applications. 2020 , 7,		15
265	Human Colon Organoids and Other Laboratory Strategies to Enhance Patient Treatment Selection. 2020 , 21, 35		5
264	Biomaterials and Culture Systems for Development of Organoid and Organ-on-a-Chip Models. 2020 , 48, 2002-2027		22
263	Manipulate intestinal organoids with niobium carbide nanosheets. 2021 , 109, 479-487		6
262	Rethinking embryology in vitro: A synergy between engineering, data science and theory. 2021 , 474, 48-61		5
261	Identifying adaptive alleles in the human genome: from selection mapping to functional validation. 2021 , 140, 241-276		5
260	Engineering of tissue constructs using coaxial bioprinting. <i>Bioactive Materials</i> , 2021 , 6, 460-471	16.7	22
259	Potential ethical problems with human cerebral organoids: Consciousness and moral status of future brains in a dish. 2021 , 1750, 147146		9
258	Functional characterization and transcriptomic profiling of a spheroid-forming midgut cell line from Helicoverpa zea (Lepidoptera: Noctuidae). 2021 , 128, 103510		1
257	Lessons from the Embryo: an Unrejected Transplant and a Benign Tumor. 2021, 17, 850-861		
256	Gene Regulatory Network Analysis and Engineering Directs Development and Vascularization of Multilineage Human Liver Organoids. 2021 , 12, 41-55.e11		17
255	Spheroids and organoids as humanized 3D scaffold-free engineered tissues for SARS-CoV-2 viral		4
	infection and drug screening. 2021 , 45, 548-558		

 $_{\rm 253}$ $\,$ An introduction to the mathematical modeling of iPSCs. 2021, 115-156

252	Advances in Engineering Human Tissue Models. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 620962	17
251	An integrated microfluidic bubble pocket for long-term perfused three-dimensional intestine-on-a-chip model. 2021 , 15, 014110	2
250	The complex three-dimensional organization of epithelial tissues. 2021 , 148,	6
249	3D cell culture for pharmaceutical application. 2021 , 261-282	
248	Modeling colorectal cancers using multidimensional organoids. 2021 , 151, 345-383	1
247	Electrophysiological Analysis of Brain Organoids: Current Approaches and Advancements. 2020 , 14, 622137	10
246	Progress in human embryonic stem cell research and aging. 2021 , 9-52	
245	Electrophysiology Read-Out Tools for Brain-on-Chip Biotechnology. 2021 , 12,	8
244	In vitro models of intestinal epithelium: Toward bioengineered systems. 2021 , 12, 2041731420985202	11
243	Self-assembly of differentiated progenitor cells facilitates spheroid human skin organoid formation and planar skin regeneration. 2021 , 11, 8430-8447	8
242	Oral Organoids: Progress and Challenges. 2021 , 100, 454-463	5
241	Imaging therapeutic peptide transport across intestinal barriers. 2021 , 2, 1115-1143	5
240	Generation of high yield insulin-producing cells (IPCs) from various sources of stem cells. 2021 , 116, 235-268	
239	Extracellular scaffold design for ultra-soft microtissue engineering. 2021 , 2, 1-13	O
238	Material cytoskeleton crosstalk. 2021 , 65-112	
237	Challenges and solutions for fabrication of three-dimensional cocultures of neural cell-loaded biomimetic constructs. 2021 , 16, 011202	
236	Clinical Application of Human Induced Pluripotent Stem Cell-Derived Organoids as an Alternative to Organ Transplantation. 2021 , 2021, 6632160	4

235	Patient-derived iPSC modeling of rare neurodevelopmental disorders: Molecular pathophysiology and prospective therapies. 2021 , 121, 201-219	11
234	3D Patterning within Hydrogels for the Recreation of Functional Biological Environments. 2021 , 31, 2009574	1 9
233	Reconstituting neurovascular unit with primary neural stem cells and brain microvascular endothelial cells in three-dimensional matrix. 2021 , 31, e12940	5
232	From Submerged Cultures to 3D Cell Culture Models: Evolution of Nasal Epithelial Cells in Asthma Research and Virus Infection. 2021 , 13,	3
231	Mind the translational gap: using iPS cell models to bridge from genetic discoveries to perturbed pathways and therapeutic targets. 2021 , 12, 10	4
230	A numerical study on tumor-on-chip performance and its optimization for nanodrug-based combination therapy. 2021 , 20, 983-1002	2
229	3D organotypic cell structures for drug development and Microorganism-Host interaction research. 2021 , 7, 47-64	
228	Microfluidic Live-Imaging technology to perform research activities in 3D models.	
227	Magnetically Navigated Protein Transduction In Vivo using Iron Oxide-Nanogel Chaperone Hybrid. 2021 , 10, e2001988	1
226	Alternative strategies in cardiac preclinical research and new clinical trial formats. 2021,	3
225	Stem cells basedmodels: Trends and prospects in biomaterials cytotoxicity studies. 2021,	3
224	Synergistic Effect of Growth Factor Releasing Polymeric Nanoparticles and Ultrasound Stimulation on Osteogenic Differentiation. <i>Pharmaceutics</i> , 2021 , 13,	O
223	Challenges in Studying Stem Cell Metabolism. <i>Cell Stem Cell</i> , 2021 , 28, 409-423	3
222	3D Tissue Models as an Effective Tool for Studying Viruses and Vaccine Development. 8,	3
221	Primate cell fusion disentangles gene regulatory divergence in neurodevelopment. 2021 , 592, 421-427	14
220	Drug Repurposing in Oncology: Current Evidence and Future Direction. 2021 , 28, 2175-2194	1
219	3D Models of Surrogate Multiple Myeloma Bone Marrow Microenvironments: Insights on Disease Pathophysiology and Patient-Specific Response to Drugs.	
218	Review on the Vascularization of Organoids and Organoids-on-a-hip. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 637048	9

217	Towards Physiologic Culture Approaches to Improve Standard Cultivation of Mesenchymal Stem Cells. <i>Cells</i> , 2021 , 10,	7.9	13
216	Patient-Specific Organoid and Organ-on-a-Chip: 3D Cell-Culture Meets 3D Printing and Numerical Simulation. 2021 , 5, e2000024		6
215	Emerging biofabrication approaches for gastrointestinal organoids towards patient specific cancer models. 2021 , 504, 116-124		O
214	Capturing Cytokines with Advanced Materials: A Potential Strategy to Tackle COVID-19 Cytokine Storm. 2021 , 33, e2100012		16
213	Autophagy induction during stem cell activation plays a key role in salivary gland self-renewal. 2021 , 1-16		4
212	Integrating Engineering, Automation, and Intelligence to Catalyze the Biomedical Translation of Organoids. 2021 , 5, e2100535		1
211	Different kinds of stem cells in the development of SARS-CoV-2 treatments. 2021 , 13, 439-451		0
210	Stem Cells. 2021,		1
209	The link between regeneration and extracellular matrix in the heart-can three-dimensional in vitro models uncover it?. 2021 , 42, 2518-2522		0
208	Rapid construction and enhanced vascularization of microtissue using a magnetic control method. 2021 , 13,		3
207	Organoids: A new approach in toxicity testing of nanotherapeutics. 2022 , 42, 52-72		7
206	Predictable fabrication of pre-made alginate hydrogel microtubes for stem cell aggregation using needle-in-needle devices. 2021 , 13,		1
205	Highly parallelized human embryonic stem cell differentiation to cardiac mesoderm in nanoliter chambers on a microfluidic chip. 2021 , 23, 30		4
204	Engineering (Bio)Materials through Shrinkage and Expansion. 2021 , 10, e2100380		4
203	Neovascularization of engineered tissues for clinical translation: Where we are, where we should be?. 2021 , 5, 021503		7
202	A simple method to improve the quality and yield of human pluripotent stem cell-derived cerebral organoids. 2021 , 7, e07350		1
201	Toward the nanoengineering of mature, well-patterned and vascularized organoids. 2021 , 16, 1255-12	58	1
200	Human pluripotent stem cells: An alternative for 3D in vitro modelling of skin disease. 2021 , 30, 1572-1	587	1

(2021-2021)

199	Improved Models of Human Endometrial Organoids Based on Hydrogels from Decellularized Endometrium. 2021 , 11,	2
198	Patient-derived tumor spheroid cultures as a promising tool to assist personalized therapeutic decisions in breast cancer.	
197	Polydopamine-based biofunctional substrate coating promotes mesenchymal stem cell migration. 2021 , 6, 739	2
196	Organoid Technology and Clinical Applications in Digestive System Cancer. 2021,	
195	The role of physical cues in the development of stem cell-derived organoids. 2021, 1	4
194	The Use of Stem Cell-Derived Organoids in Disease Modeling: An Update. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	7
193	The Translational Application of Hydrogel for Organoid Technology: Challenges and Future Perspectives. 2021 , 21, e2100191	2
192	A pan-cancer organoid platform for precision medicine. 2021 , 36, 109429	10
191	Organ-on-a-chip technology for nanoparticle research. 2021 , 8, 20	12
190	Microfluidic device with brain extracellular matrix promotes structural and functional maturation of human brain organoids. 2021 , 12, 4730	37
189	Live cell tagging tracking and isolation for spatial transcriptomics using photoactivatable cell dyes. 2021 , 12, 4995	5
188	Cancer Stem Cells in Tumor Modeling: Challenges and Future Directions 2021 , 1, 2100017	3
187	Brain Organoids: Filling the Need for a Human Model of Neurological Disorder. 2021 , 10,	3
186	Sticking together: Harnessing cadherin biology for tissue engineering. 2021 , 134, 107-115	1
185	Next-Generation Human Cerebral Organoids as Powerful Tools To Advance NeuroHIV Research. 2021 , 12, e0068021	2
184	Asymmetric cell division of mammary stem cells. 2021 , 16, 5	1
183	Deciphering and reconstitution of positional information in the human brain development. 2021 , 10, 29	О
182	Bioengineering methods for organoid systems. 2021 , 113, 475-491	2

181	Advance in Human Epithelial-Derived Organoids Research. 2021, 18, 3931-3950	1
180	Brain Organoids: Studying Human Brain Development and Diseases in a Dish. 2021 , 2021, 5902824	2
179	Reconstructing the tumor architecture into organoids. 2021 , 176, 113839	1
178	Preclinical tumor organoid models in personalized cancer therapy: Not everyone fits the mold. 2021 , 408, 112858	1
177	Drug screening by uniform patient derived colorectal cancer hydro-organoids. <i>Biomaterials</i> , 2021 , 276, 121004	4
176	The New Frontier of Three-Dimensional Culture Models to Scale-Up Cancer Research. <i>Methods in Molecular Biology</i> , 2022 , 2343, 3-18	4
175	Harness Organoid Models for Virological Studies in Animals: A Cross-Species Perspective. <i>Frontiers in Microbiology</i> , 2021 , 12, 725074	1
174	Bioengineering platforms for cell therapeutics derived from pluripotent and direct reprogramming. 2021 , 5, 031501	O
173	Induced Pluripotent Stem Cells in Psychiatry: An Overview and Critical Perspective. 2021 , 90, 362-372	2
172	Rebuilding the hematopoietic stem cell niche: Recent developments and future prospects. 2021 , 132, 129-148	5
171	Human Embryos, Induced Pluripotent Stem Cells, and Organoids: Models to Assess the Effects of Environmental Plastic Pollution. 2021 , 9, 709183	1
170	Promises and Challenges of Organoid-Guided Precision Medicine. 2021 , 2, 1011-1026	3
169	Challenges for the Applications of Human Pluripotent Stem Cell-Derived Liver Organoids. 2021 , 9, 748576	3
168	Cell spheroids containing bioactive molecule-immobilized porous particles with a leaf-stacked structure. 2022 , 429, 132590	1
167	Microfluidic Culture Platforms in Neuroscience Research. 2021 , 1-39	О
166	Looking back, moving forward. 2021 , 167-216	
165	Robust Phase Unwrapping via Deep Image Prior for Quantitative Phase Imaging. 2021 , 30, 7025-7037	7
164	PEG/HA Hybrid Hydrogels for Biologically and Mechanically Tailorable Bone Marrow Organoids. 2020 , 30, 1910282	20

163	Targeting Early Healing Phase with Titania Nanotube Arrays on Tunable Diameters to Accelerate Bone Regeneration and Osseointegration. 2021 , 17, e2006287	18
162	Current Technologies Based on the Knowledge of the Stem Cells Microenvironments. 2017, 1041, 245-262	12
161	Novel therapeutic approaches of tissue engineering in male infertility. 2020 , 380, 31-42	4
160	Biomaterials for on-chip organ systems. 2020 , 669-707	4
159	Trapping cell spheroids and organoids using digital acoustofluidics. 2020 , 12, 035025	10
158	Toward a neurospheroid niche model: optimizing embedded 3D bioprinting for fabrication of neurospheroid brain-like co-culture constructs. 2020 ,	16
157	In vitro and in vivo models for studying Zika virus biology. 2018 , 99, 1529-1550	24
156	Guided self-organization recapitulates tissue architecture in a bioengineered brain organoid model.	6
155	An orthogonal differentiation platform for genomically programming stem cells, organoids, and bioprinted tissues.	1
154	Self-assembly of progenitor cells under the aegis of platelet factors facilitates human skin organoid formation and vascularized wound healing.	1
153	Scalable production of tissue-like vascularised liver organoids from human PSCs.	4
152	Genetic design automation for autonomous formation of multicellular shapes from a single cell progenitor.	1
151	Nonconserved Long Intergenic Noncoding RNAs Associate With Complex Cardiometabolic Disease Traits. 2021 , 41, 501-511	2
150	OrganoidTracker: Efficient cell tracking using machine learning and manual error correction. 2020 , 15, e0240802	13
149	Past, Present, and Future of Brain Organoid Technology. 2019 , 42, 617-627	31
148	Drug discovery in psychopharmacology: from 2D models to cerebral organoids?. 2019 , 21, 203-224	6
147	SCREENED: A Multistage Model of Thyroid Gland Function for Screening Endocrine-Disrupting Chemicals in a Biologically Sex-Specific Manner. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6
146	Microfluidic three-dimensional cell culture of stem cells for high-throughput analysis. 2019 , 11, 803-816	9

145	Merging organoid and organ-on-a-chip technology to generate complex multi-layer tissue models in a human retina-on-a-chip platform. 2019 , 8,	137
144	Microfluidic droplet-based functional materials for cell manipulation. 2021 , 21, 4311-4329	4
143	Enabling peristalsis of human colon tumor organoids on microfluidic chips. 2021, 14,	5
142	Microfluidic Arrays of Breast Tumor Spheroids for Drug Screening and Personalized Cancer Therapies. 2021 , e2101085	5
141	Use of Stem Cells in Toxicology. 2017 , 177-194	
140	Three-dimensional human axon tracts derived from cerebral organoids.	
139	Direct programming of human mammary self-organised organoids by miR-106a-3p.	
138	Knockout and Knock-In Animals. 1-8	
137	Human Retina-on-a-Chip: Merging Organoid and Organ-on-a-Chip Technology to Generate Complex Multi-Layer Tissue Models.	0
136	RConsciousnessoidsP clues and insights from human cerebral organoids for the study of consciousness. 2021 , 7, niab029	5
135	Paligenosis: Cellular Remodeling During Tissue Repair. 2021 ,	4
134	iPSC for modeling neurodegenerative disorders. 2020 , 15, 332-339	5
133	Alternative Models in Biomedical Research: In Silico, In Vitro, Ex Vivo, and Nontraditional In Vivo Approaches. 2022 , 925-966	
132	Stem Cells and Tissue Regeneration. 2020 , 103-116	
131	Synthetic tissue engineering: Programming multicellular self-organization by designing customized cell-cell communication. 2020 , 17, 42-50	2
130	OrganoidTracker: efficient cell tracking using machine learning and manual error correction.	1
129	Induced pluripotency in the context of stem cell expansion bioprocess development, optimization, and manufacturing: a roadmap to the clinic. 2021 , 6, 72	2
128	In Vivo and In Vitro Models of Hepatocellular Carcinoma: Current Strategies for Translational Modeling. 2021 , 13,	2

127	Generation of Skin Organoids: Potential Opportunities and Challenges. 2021, 9, 709824	2
126	Organoids as a New In Vitro Model of Human Norovirus Infection. 2020 , 50, 168-174	
125	Deciphering the Epigenetic Code in Embryonic and Dental Pulp Stem Cells. 2016 , 89, 539-563	4
124	Generating CNS organoids from human induced pluripotent stem cells for modeling neurological disorders. 2017 , 9, 101-111	18
123	Organoid models of glioblastoma: advances, applications and challenges. 2020 , 10, 2242-2257	8
122	Induced Pluripotent Stem Cells in Pediatric Research and Clinical Translation. 2021 , 203-216	
121	Automated optimization of endoderm differentiation on chip. 2021 , 21, 4685-4695	3
120	Induced pluripotent stem cells for modeling Noonan, Noonan Syndrome with Multiple Lentigines, and Costello Syndromes. 2022 , 65-110	
119	Organoid technology: Current standing and future perspectives. 2021 , 39, 1625-1649	1
118	[Spheroids to organoids: Solid cancer models for anticancer drug discovery]. 2021 , 109, 49-49	
117	Optimized 3D Culture of Hepatic Cells for Liver Organoid Metabolic Assays <i>Cells</i> , 2021 , 10,	5
117	Optimized 3D Culture of Hepatic Cells for Liver Organoid Metabolic Assays <i>Cells</i> , 2021 , 10, 7.9 3D Bioprinting Strategies, Challenges, and Opportunities to Model the Lung Tissue Microenvironment and Its Function <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 773511	5
,	3D Bioprinting Strategies, Challenges, and Opportunities to Model the Lung Tissue	
116	3D Bioprinting Strategies, Challenges, and Opportunities to Model the Lung Tissue Microenvironment and Its Function <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 773511 5.8	3
116	3D Bioprinting Strategies, Challenges, and Opportunities to Model the Lung Tissue Microenvironment and Its Function <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 773511 Colorectal Cancer Stem Cells: An Overview of Evolving Methods and Concepts. 2021 , 13, Evaluation of growth, viability, and structural integrity of equine endometrial organoids following	3
116 115	3D Bioprinting Strategies, Challenges, and Opportunities to Model the Lung Tissue Microenvironment and Its Function Frontiers in Bioengineering and Biotechnology, 2021, 9, 773511 Colorectal Cancer Stem Cells: An Overview of Evolving Methods and Concepts. 2021, 13, Evaluation of growth, viability, and structural integrity of equine endometrial organoids following cryopreservation. 2021, Insights to Heart Development and Cardiac Disease Models Using Pluripotent Stem Cell Derived 3D	3 0
116 115 114 113	3D Bioprinting Strategies, Challenges, and Opportunities to Model the Lung Tissue Microenvironment and Its Function Frontiers in Bioengineering and Biotechnology, 2021, 9, 773511 Colorectal Cancer Stem Cells: An Overview of Evolving Methods and Concepts. 2021, 13, Evaluation of growth, viability, and structural integrity of equine endometrial organoids following cryopreservation. 2021, Insights to Heart Development and Cardiac Disease Models Using Pluripotent Stem Cell Derived 3D Organoids 2021, 9, 788955	3 0 0

109	Rejuvenation of Tissue Stem Cells by Intrinsic and Extrinsic Factors 2022 , 11, 231-238	Ο
108	Models of the Small Intestine for Studying Intestinal Diseases Frontiers in Microbiology, 2021 , 12, 76703	4
107	Hypes and Hopes of Stem Cell Therapies in Dentistry: a Review 2022, 1	1
106	Silk materials at the convergence of science, sustainability, healthcare, and technology. 2022 , 9, 011302	7
105	Organoids in Tissue Transplantation. 2021 , 45	O
104	Advanced In Vitro Lung Models for Drug and Toxicity Screening: The Promising Role of Induced Pluripotent Stem Cells 2021 , e2101139	1
103	Cultivating human tissues and organs over lab-on-a-chip models: Recent progress and applications 2022 , 187, 205-240	0
102	Three-dimensional models: a novel approach for lymphoma research 2022 , 148, 753	O
101	iPSC for modeling of metabolic and neurodegenerative disorders. 2022 , 59-84	
100	Biomimetic models of the glomerulus 2022,	4
100 99	Biomimetic models of the glomerulus 2022, Engineered in vitro models: mimicking in vivo physiology. 2022, 555-609	4
		4
99	Engineered in vitro models: mimicking in vivo physiology. 2022 , 555-609	4
99 98	Engineered in vitro models: mimicking in vivo physiology. 2022 , 555-609 hiPSC disease modeling with 3D organoids: bioengineering perspective. 2022 , 63-93	4 O
99 98 97	Engineered in vitro models: mimicking in vivo physiology. 2022, 555-609 hiPSC disease modeling with 3D organoids: bioengineering perspective. 2022, 63-93 Cerebellar Modelling Using Human Induced Pluripotent Stem. 2022, 1-21 Nanoarchitectonics of a Microsphere-Based Scaffold for Modeling Neurodevelopment and	0
99 98 97 96	Engineered in vitro models: mimicking in vivo physiology. 2022, 555-609 hiPSC disease modeling with 3D organoids: bioengineering perspective. 2022, 63-93 Cerebellar Modelling Using Human Induced Pluripotent Stem. 2022, 1-21 Nanoarchitectonics of a Microsphere-Based Scaffold for Modeling Neurodevelopment and Neurological Disease ACS Applied Bio Materials, 2022,	0
99 98 97 96	Engineered in vitro models: mimicking in vivo physiology. 2022, 555-609 hiPSC disease modeling with 3D organoids: bioengineering perspective. 2022, 63-93 Cerebellar Modelling Using Human Induced Pluripotent Stem. 2022, 1-21 Nanoarchitectonics of a Microsphere-Based Scaffold for Modeling Neurodevelopment and Neurological Disease ACS Applied Bio Materials, 2022, Application of CRISPR/Cas system in iPSC-based disease model of hereditary deafness. 2022, 225-245 Controlling Morphology and Functions of Cardiac Organoids by Two-Dimensional Geometrical	0

91	Modulation of designer biomimetic matrices for optimized differentiated intestinal epithelial cultures <i>Biomaterials</i> , 2022 , 282, 121380	15.6	2
90	The Application of Brain Organoids in Assessing Neural Toxicity 2022 , 15, 799397		О
89	Molecular Imaging and Stem Cell Imaging. 2022 , 237-256		
88	Injectable hybrid inorganic nanoscaffold as rapid stem cell assembly template for cartilage repair 2022 , 9, nwac037		2
87	Engineering Hydrogels for the Development of Three-Dimensional In Vitro Models <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	1
86	Home Away From Home: Bioengineering Advancements to Mimic the Developmental and Adult Stem Cell Niche. 2022 , 4,		O
85	Brain and Retinal Organoids for Disease Modeling: The Importance of In Vitro Blood-Brain and Retinal Barriers Studies <i>Cells</i> , 2022 , 11,	7.9	0
84	Emerging organoid-based platforms to study salivary gland hypofunction. 2, e2		
83	A Microengineered Brain-Chip to Model Neuroinflammation in Humans.		
82	Benefits and Shortcomings of Laboratory Model Systems in the Development of Genetic Therapies 2022 , 239, 263-269		
81	Orthogonally induced differentiation of stem cells for the programmatic patterning of vascularized organoids and bioprinted tissues 2022 ,		5
80	Natural Hydrogel-Based Bio-Inks for 3D Bioprinting in Tissue Engineering: A Review 2022 , 8,		16
79	Imaging approaches for monitoring 3D cell and tissue culture systems 2022, e202100380		0
78	Application of Organoids in Carcinogenesis Modeling and Tumor Vaccination 2022, 12, 855996		О
77	Applying exercise-mimetic engineered skeletal muscle model to interrogate the adaptive response of irisin to mechanical force <i>IScience</i> , 2022 , 25, 104135	6.1	1
76	Advanced human developmental toxicity and teratogenicity assessment using human organoid models <i>Ecotoxicology and Environmental Safety</i> , 2022 , 235, 113429	7	4
75	Biomaterial-induced pathway modulation for bone regeneration <i>Biomaterials</i> , 2022 , 283, 121431	15.6	3
74	Organoid and microfluidics-based platforms for drug screening in COVID-19 <i>Drug Discovery Today</i> , 2021 ,	8.8	2

73	Combined use of chitosan-PGLA nerve grafts and bone marrow mononuclear cells to repair a 50-mm-long median nerve defect combined with an 80-mm-long ulnar nerve defect in the human upper arm Current Stem Cell Research and Therapy, 2022,	3.6	
72	Mesenchymal Stem/Stromal Cells in Organ Transplantation Pharmaceutics, 2022, 14,	6.4	О
71	Hydrogel Mechanics Influence the Growth and Development of Embedded Brain Organoids <i>ACS Applied Bio Materials</i> , 2021 ,	4.1	5
70	Functional Characterization of Human Pluripotent Stem Cell-Derived Models of the Brain with Microelectrode Arrays <i>Cells</i> , 2021 , 11,	7.9	3
69	Stem cells technology as a platform for generating reproductive system organoids and treatment of infertility-related diseases <i>Cell Biology International</i> , 2021 ,	4.5	O
68	Photoactive 3D-Printed Hypertensile Metamaterials for Improving Dynamic Modeling of Stem Cells <i>Nano Letters</i> , 2021 ,	11.5	2
67	Current progress in brain organoid technology. Scientia Sinica Vitae, 2022,	1.4	
66	Neonatal lung-derived SSEA-1 cells exhibited distinct stem/progenitor characteristics and organoid developmental potential <i>IScience</i> , 2022 , 25, 104262	6.1	O
65	Data_Sheet_1.ZIP. 2020 ,		
64	Table_1.docx. 2020 ,		
63	Video_1.AVI. 2020 ,		
62	Video_2.AVI. 2020 ,		
61	Video_3.AVI. 2020 ,		
60	Table_1.DOCX. 2020 ,		
59	Therapeutic strategies of three-dimensional stem cell spheroids and organoids for tissue repair and regeneration <i>Bioactive Materials</i> , 2023 , 19, 50-74	16.7	4
58	Three-dimensional (3D) cell culture studies: a review of the field of toxicology <i>Drug and Chemical Toxicology</i> , 2022 , 1-11	2.3	1
57	A reflection of life - my tale of microdiversity, equity and inclusion in cell biology (and beyond) <i>Journal of Cell Science</i> , 2022 , 135,	5.3	
56	An improved pipeline for reprogramming human induced pluripotent stem cells with TET1.		

55	Advances in three-dimensional bioprinted stem cell-based tissue engineering for cardiovascular regeneration <i>Journal of Molecular and Cellular Cardiology</i> , 2022 , 169, 13-27	5.8	O
54	In vivo study to assess dosage of allogeneic pig retinal progenitor cells: Long-term survival, engraftment, differentiation and safety <i>Journal of Cellular and Molecular Medicine</i> , 2022 ,	5.6	
53	Construction of gastric cancer patient-derived organoids and their utilization in a comparative study of clinically used paclitaxel nanoformulations <i>Journal of Nanobiotechnology</i> , 2022 , 20, 233	9.4	O
52	Human organoids in basic research and clinical applications. <i>Signal Transduction and Targeted Therapy</i> , 2022 , 7,	21	5
51	Everything You Always Wanted to Know About Organoid-Based Models (and Never Dared to Ask). <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2022 ,	7.9	O
50	Cross-Talk Between the Intestinal Epithelium and Salmonella Typhimurium. <i>Frontiers in Microbiology</i> , 13,	5.7	O
49	Human Cholangiocytes Form a Polarized and Functional Bile Duct on Hollow Fiber Membranes. <i>Frontiers in Bioengineering and Biotechnology</i> , 10,	5.8	O
48	Emerging Methods in Modeling Brain Development and Disease with Human Pluripotent Stem Cells. <i>Methods in Molecular Biology</i> , 2022 , 319-342	1.4	
47	Development and Application of Microfluidics in Organoid Formation. 2022, 325-340		
46	Patient-derived cancer organoids for drug screening: Basic technology and clinical application. Journal of Gastroenterology and Hepatology (Australia),	4	O
46 45		6.3	0
	Journal of Gastroenterology and Hepatology (Australia), Tissue Engineering Approaches to Uncover Therapeutic Targets for Endothelial Dysfunction in		
45	Journal of Gastroenterology and Hepatology (Australia), Tissue Engineering Approaches to Uncover Therapeutic Targets for Endothelial Dysfunction in Pathological Microenvironments. International Journal of Molecular Sciences, 2022, 23, 7416 The Effects of Transforming Growth Factor-11 on the Differentiation of Cell Organoids Composed	6.3	0
45 44	Journal of Gastroenterology and Hepatology (Australia), Tissue Engineering Approaches to Uncover Therapeutic Targets for Endothelial Dysfunction in Pathological Microenvironments. International Journal of Molecular Sciences, 2022, 23, 7416 The Effects of Transforming Growth Factor-1 on the Differentiation of Cell Organoids Composed of Gingiva-Derived Stem Cells. BioMed Research International, 2022, 2022, 1-9 Electrochemically Synthesized Polyacrylamide Gel and CoreBhell Nanoparticles for 3D Cell Culture	6.3	0
45 44 43	Tissue Engineering Approaches to Uncover Therapeutic Targets for Endothelial Dysfunction in Pathological Microenvironments. International Journal of Molecular Sciences, 2022, 23, 7416 The Effects of Transforming Growth Factor-II on the Differentiation of Cell Organoids Composed of Gingiva-Derived Stem Cells. BioMed Research International, 2022, 2022, 1-9 Electrochemically Synthesized Polyacrylamide Gel and CoreBhell Nanoparticles for 3D Cell Culture Formation. ACS Applied Materials & Company Com	6.3	0 1
45 44 43 42	Tissue Engineering Approaches to Uncover Therapeutic Targets for Endothelial Dysfunction in Pathological Microenvironments. International Journal of Molecular Sciences, 2022, 23, 7416 The Effects of Transforming Growth Factor-II on the Differentiation of Cell Organoids Composed of Gingiva-Derived Stem Cells. BioMed Research International, 2022, 2022, 1-9 Electrochemically Synthesized Polyacrylamide Gel and CoreBhell Nanoparticles for 3D Cell Culture Formation. ACS Applied Materials & Derived Stem Cells & D	6.3	0 1 0
45 44 43 42 41	Tissue Engineering Approaches to Uncover Therapeutic Targets for Endothelial Dysfunction in Pathological Microenvironments. International Journal of Molecular Sciences, 2022, 23, 7416 The Effects of Transforming Growth Factor-II on the Differentiation of Cell Organoids Composed of Gingiva-Derived Stem Cells. BioMed Research International, 2022, 2022, 1-9 Electrochemically Synthesized Polyacrylamide Gel and CoreBhell Nanoparticles for 3D Cell Culture Formation. ACS Applied Materials & Samp; Interfaces, A Microengineered Brain-Chip to Model Neuroinflammation in Humans. IScience, 2022, 104813 Linking neural crest development to neuroblastoma pathology. 2022, 149,	6.3	0 1 0

37	Functionalized 3D scaffolds for engineering the hematopoietic niche. 10,	1
36	Industry 5.0 in Orthopaedics.	2
35	Hydrogels for bone organoid construction: From a materiobiological perspective. 2023, 136, 21-31	2
34	3D Bioprinting for Tumor Metastasis Research.	O
33	Bio-chemo-mechanical coupling models of soft biological materials: A review. 2022,	0
32	Epilepsy Characteristics in Neurodevelopmental Disorders: Research from Patient Cohorts and Animal Models Focusing on Autism Spectrum Disorder. 2022 , 23, 10807	O
31	Mechanical guidance of self-condensation patterns of differentiating progeny. 2022, 105109	O
30	Quantitative Assessment of Fluorescent Reporter Expression in 3D Retinal Organoids. 2023, 121-138	O
29	The Brain Organoid Technology: Diversity of Protocols and Challenges.	0
28	In vitro and ex vivo models for evaluating vaginal drug delivery systems. 2022 , 114543	1
27	Crypt-Villus Scaffold Architecture for Bioengineering Functional Human Intestinal Epithelium.	0
26	Biosensor integrated tissue chips and their applications on Earth and in space. 2022 , 114820	2
25	Biomaterials and bioengineering to guide tissue morphogenesis in epithelial organoids. 10,	1
24	Engineered organoids in oral and maxillofacial regeneration. 2023 , 26, 105757	O
23	Patient-Derived Organoids as a Stem Cell Model to Study Lung Cancer. 2022,	O
22	Advances in Organoid Culture Research. 2022 , 09, 268-276	O
21	Advances in Tumor Organoids for the Evaluation of Drugs: A Bibliographic Review. 2022 , 14, 2709	O
20	Osteochondral Regenerative Engineering: Challenges, State-of-the-Art and Translational Perspectives.	O

19	Recent Development of Brain Organoids for Biomedical Application. 2200346	1
18	Organoid technology and applications in lung diseases: Models, mechanism research and therapy opportunities. 10,	O
17	3D in vitro modelling of human patient microglia: A focus on clinical translation and drug development in neurodegenerative diseases. 2023 , 375, 578017	О
16	Current Research Trends in the Application of In Vitro Three-Dimensional Models of Liver Cells. 2023 , 15, 54	Ο
15	Stem cells for organoids. 2022 , 1,	O
14	Mesenchymal Stromal/Stem Cell (MSC)-Based Vector Biomaterials for Clinical Tissue Engineering and Inflammation Research: A Narrative Mini Review. Volume 16, 257-267	О
13	Microfluidic Culture Platforms in Neuroscience Research. 2023, 39-77	0
12	Application of Artificial Intelligence to In Vitro Tumor Modeling and Characterization of the Tumor Microenvironment.	O
11	An overview of in vitro 3D models of the blood-brain barrier as a tool to predict the in vivo permeability of nanomedicines. 2023 , 196, 114816	0
10	3D multicellular systems in disease modelling: From organoids to organ-on-chip. 11,	O
9	Opportunities and limitations for studying neuropsychiatric disorders using patient-derived induced pluripotent stem cells.	0
8	Consciousness in a Rotor? Science and Ethics of Potentially Conscious Human Cerebral Organoids. 1-19	O
7	Organoids and organs-on-chips: insights into predicting the efficacy of systemic treatment in colorectal cancer. 2023 , 9,	О
6	3D Printed Magnet-Infused Origami Platform for 3D Cell Culture Assessments. 2202204	О
5	A Pillar and Perfusion Plate Platform for Robust Human Organoid Culture and Analysis.	О
4	Shedding light on latent pathogenesis and pathophysiology of mental disorders: the potential of iPS cell technology.	Ο
3	Quantitative chemometric phenotyping of three-dimensional liver organoids by Raman spectral imaging. 2023 , 100440	О
2	In vitro spermatogenesis in isolated seminiferous tubules of immature mice. 2023 , 18, e0283773	O

Uncovering the cytotoxic effects of air pollution with multi-modal imaging of in vitro respiratory models. **2023**, 10,

О