

# Anthony J Atala

## List of Publications by Year in Descending Order

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

660 papers	45,676 citations	109 h-index	198 g-index
701 ext. papers	51,676 ext. citations	6.3 avg, IF	8.02 L-index

#	Paper	IF	Citations
660	Bioreactor design and validation for manufacturing strategies in tissue engineering.. <i>Bio-Design and Manufacturing</i> , <b>2022</b> , 5, 43-63	4.7	1
659	Nephroprotective effect of urine-derived stem cells for renal injury <b>2022</b> , 161-167		
658	Bioink Printability Methodologies for Cell-Based Extrusion Bioprinting <b>2022</b> , 153-183		0
657	Engineered solutions for urethral stricture disease: from bench to bedside <b>2022</b> , 197-225		
656	Bioink materials for translational applications. <i>MRS Bulletin</i> , <b>2022</b> , 47, 80	3.2	1
655	Regenerative Medicine Therapies for Prevention of Abdominal Adhesions: A Scoping Review.. <i>Journal of Surgical Research</i> , <b>2022</b> , 275, 252-264	2.5	1
654	Using a Human Liver Tissue Equivalent (hLTE) Platform to Define the Functional Impact of Liver-Directed AAV Gene Therapy. <i>Blood</i> , <b>2021</b> , 138, 2938-2938	2.2	0
653	Administration of FVIII-Expressing Human Placental Cells to Juvenile Sheep Yields Multi-Organ Engraftment, Therapeutic Plasma FVIII Levels and Alter Immune Signaling Pathways to Evade FVIII Inhibitor Induction. <i>Blood</i> , <b>2021</b> , 138, 3966-3966	2.2	
652	Bioprinting Au Natural: The Biologics of Bioinks. <i>Biomolecules</i> , <b>2021</b> , 11,	5.9	3
651	Comparison Study of Stem Cell-Derived Extracellular Vesicles for Enhanced Osteogenic Differentiation. <i>Tissue Engineering - Part A</i> , <b>2021</b> , 27, 1044-1054	3.9	6
650	Lentiviral Capsid-Mediated Cas9 Ribonucleoprotein Delivery for Efficient and Safe Multiplex Genome Editing. <i>CRISPR Journal</i> , <b>2021</b> ,	2.5	6
649	Effects of Shear Stress on Production of FVIII and vWF in a Cell-Based Therapeutic for Hemophilia A. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2021</b> , 9, 639070	5.8	2
648	Accelerating neovascularization and kidney tissue formation with a 3D vascular scaffold capturing native vascular structure. <i>Acta Biomaterialia</i> , <b>2021</b> , 124, 233-243	10.8	2
647	High-throughput microscopy reveals the impact of multifactorial environmental perturbations on colorectal cancer cell growth. <i>GigaScience</i> , <b>2021</b> , 10,	7.6	2
646	Regenerative Medicine Approaches in Bioengineering Female Reproductive Tissues. <i>Reproductive Sciences</i> , <b>2021</b> , 28, 1573-1595	3	4
645	Human placental-derived stem cell therapy ameliorates experimental necrotizing enterocolitis. <i>American Journal of Physiology - Renal Physiology</i> , <b>2021</b> , 320, G658-G674	5.1	1
644	Combinations of photoinitiator and UV absorber for cell-based digital light processing (DLP) bioprinting. <i>Biofabrication</i> , <b>2021</b> , 13,	10.5	11

643	Advanced Hydrogels as Exosome Delivery Systems for Osteogenic Differentiation of MSCs: Application in Bone Regeneration. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	11
642	Recommendations for workforce development in regenerative medicine biomanufacturing. <i>Stem Cells Translational Medicine</i> , <b>2021</b> , 10, 1365-1371	6.9	1
641	Self-aligned myofibers in 3D bioprinted extracellular matrix-based construct accelerate skeletal muscle function restoration. <i>Applied Physics Reviews</i> , <b>2021</b> , 8, 021405	17.3	9
640	Microfluidic devices for studying coagulation biology. <i>Seminars in Cell and Developmental Biology</i> , <b>2021</b> , 112, 1-7	7.5	4
639	Frontiers in urethra regeneration: current state and future perspective. <i>Biomedical Materials (Bristol)</i> , <b>2021</b> , 16,	3.5	2
638	Self-Assembling Peptide Solution Accelerates Hemostasis. <i>Advances in Wound Care</i> , <b>2021</b> , 10, 191-203	4.8	1
637	Automated Image Analysis Methodologies to Compute Bioink Printability. <i>Advanced Engineering Materials</i> , <b>2021</b> , 23, 2000900	3.5	1
636	A photo-crosslinkable cartilage-derived extracellular matrix bioink for auricular cartilage tissue engineering. <i>Acta Biomaterialia</i> , <b>2021</b> , 121, 193-203	10.8	27
635	Pelvic floor muscle function recovery using biofabricated tissue constructs with neuromuscular junctions. <i>Acta Biomaterialia</i> , <b>2021</b> , 121, 237-249	10.8	3
634	The potential toxic effects of magnesium oxide nanoparticles and valproate on liver tissue. <i>Journal of Biochemical and Molecular Toxicology</i> , <b>2021</b> , 35, e22676	3.4	3
633	Regen med therapeutic opportunities for fighting COVID-19. <i>Stem Cells Translational Medicine</i> , <b>2021</b> , 10, 5-13	6.9	9
632	Fertility preservation for pediatric male cancer patients: illustrating contemporary and future options; a case report. <i>Translational Andrology and Urology</i> , <b>2021</b> , 10, 520-526	2.3	2
631	Engineering of the Bladder and Urethra <b>2021</b> , 1-26		
630	Extracellular vesicles from three dimensional culture of human placental mesenchymal stem cells ameliorated renal ischemia/reperfusion injury. <i>International Journal of Artificial Organs</i> , <b>2021</b> , 3913988201986809	10.8	19
629	Tissue-Engineered Renal Tissue. <i>Reference Series in Biomedical Engineering</i> , <b>2021</b> , 233-257		
628	3D scaffold-free microlivers with drug metabolic function generated by lineage-reprogrammed hepatocytes from human fibroblasts. <i>Biomaterials</i> , <b>2021</b> , 269, 120668	15.6	2
627	Optimized culture system to maximize ovarian cell growth and functionality in vitro. <i>Cell and Tissue Research</i> , <b>2021</b> , 385, 161-171	4.2	1
626	Nanocarriers, Progenitor Cells, Combinational Approaches, and New Insights on the Retinal Therapy. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	1

625	Adenine Base Editor Ribonucleoproteins Delivered by Lentivirus-Like Particles Show High On-Target Base Editing and Undetectable RNA Off-Target Activities. <i>CRISPR Journal</i> , <b>2021</b> , 4, 69-81	2.5	7
624	Reply: Spermatogonia stem cell technology: a new avenue for all age Klinefelter patients. <i>Human Reproduction Update</i> , <b>2021</b> , 27, 970-972	15.8	0
623	Universal Peptide Hydrogel for Scalable Physiological Formation and Bioprinting of 3D Spheroids from Human Induced Pluripotent Stem Cells. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2104046	15.6	3
622	Enhanced method to select human oogonial stem cells for fertility research. <i>Cell and Tissue Research</i> , <b>2021</b> , 386, 145-156	4.2	1
621	Investigating Optimal Autologous Cellular Platforms for Prenatal or Perinatal Factor VIII Delivery to Treat Hemophilia A. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 678117	5.7	0
620	Engineering of the Bladder and Urethra. <i>Reference Series in Biomedical Engineering</i> , <b>2021</b> , 259-284		
619	Engineering Functional Rat Ovarian Spheroids Using Granulosa and Theca Cells. <i>Reproductive Sciences</i> , <b>2021</b> , 28, 1697-1708	3	1
618	3-D Human Renal Tubular Organoids Generated from Urine-Derived Stem Cells for Nephrotoxicity Screening. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 6701-6709	5.5	11
617	Implementation Guide for Rapid Integration of an Outpatient Telemedicine Program During the COVID-19 Pandemic. <i>Journal of the American College of Surgeons</i> , <b>2020</b> , 231, 216-222.e2	4.4	103
616	The effect of BMP-mimetic peptide tethering bioinks on the differentiation of dental pulp stem cells (DPSCs) in 3D bioprinted dental constructs. <i>Biofabrication</i> , <b>2020</b> , 12, 035029	10.5	23
615	A Case Report of an Obstructing Ureteral Nephrogenic Adenoma in a Child Managed With Open Ileal Ureter. <i>Urology</i> , <b>2020</b> , 143, 231-233	1.6	2
614	Ultrasmall gold nanoparticles (2nm) can penetrate and enter cell nuclei in an in vitro 3D brain spheroid model. <i>Acta Biomaterialia</i> , <b>2020</b> , 111, 349-362	10.8	21
613	Antibody-Conjugated Electrospun Vascular Scaffolds to Enhance Endothelialization.. <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 4486-4494	4.1	2
612	The Role of the Microenvironment in Controlling the Fate of Bioprinted Stem Cells. <i>Chemical Reviews</i> , <b>2020</b> , 120, 11056-11092	68.1	19
611	Multicellular 3D Neurovascular Unit Model for Assessing Hypoxia and Neuroinflammation Induced Blood-Brain Barrier Dysfunction. <i>Scientific Reports</i> , <b>2020</b> , 10, 9766	4.9	28
610	Three-Dimensional Renal Organoids from Whole Kidney Cells: Generation, Optimization, and Potential Application in Nephrotoxicology In Vitro. <i>Cell Transplantation</i> , <b>2020</b> , 29, 963689719897066	4	14
609	A tissue-engineered uterus supports live births in rabbits. <i>Nature Biotechnology</i> , <b>2020</b> , 38, 1280-1287	44.5	20
608	Pixel-based drug release system: Achieving accurate dosage and prolonged activity for personalized medicine. <i>Medical Devices &amp; Sensors</i> , <b>2020</b> , 3, e10104	1.6	1

607	Reno-protection of Urine-derived Stem Cells in A Chronic Kidney Disease Rat Model Induced by Renal Ischemia and Nephrotoxicity. <i>International Journal of Biological Sciences</i> , <b>2020</b> , 16, 435-446	11.2	10
606	A cocktail of growth factors released from a heparin hyaluronic-acid hydrogel promotes the myogenic potential of human urine-derived stem cells in vivo. <i>Acta Biomaterialia</i> , <b>2020</b> , 107, 50-64	10.8	12
605	Dynamic Changes in Erectile Function and Histological Architecture After Intracorporal Injection of Human Placental Stem Cells in a Pelvic Neurovascular Injury Rat Model. <i>Journal of Sexual Medicine</i> , <b>2020</b> , 17, 400-411	1.1	6
604	Neural cell integration into 3D bioprinted skeletal muscle constructs accelerates restoration of muscle function. <i>Nature Communications</i> , <b>2020</b> , 11, 1025	17.4	70
603	Drug compound screening in single and integrated multi-organoid body-on-a-chip systems. <i>Biofabrication</i> , <b>2020</b> , 12, 025017	10.5	63
602	Probing prodrug metabolism and reciprocal toxicity with an integrated and humanized multi-tissue organ-on-a-chip platform. <i>Acta Biomaterialia</i> , <b>2020</b> , 106, 124-135	10.8	51
601	Mammalian Pericardium-Based Bioprosthetic Materials in Xenotransplantation and Tissue Engineering. <i>Biotechnology Journal</i> , <b>2020</b> , 15, e1900334	5.6	5
600	Therapeutic Mesenchymal Stromal Cells for Immunotherapy and for Gene and Drug Delivery. <i>Molecular Therapy - Methods and Clinical Development</i> , <b>2020</b> , 16, 204-224	6.4	29
599	Assessment methodologies for extrusion-based bioink printability. <i>Biofabrication</i> , <b>2020</b> , 12, 022003	10.5	94
598	Tissue engineering: current status and future perspectives <b>2020</b> , 1-35		10
597	Tissue engineering of the kidney <b>2020</b> , 825-843		1
596	Tissue engineering: bladder and urethra <b>2020</b> , 845-862		1
595	Tissue engineering for female reproductive organs <b>2020</b> , 863-870		1
594	Male reproductive organs <b>2020</b> , 871-880		
593	Three-dimensional bioprinting for tissue engineering <b>2020</b> , 1391-1415		2
592	Delivery of Fviii-mcoET3 to Previously Untreated Sheep Using Human Placental Cells Enables Durable Elevation of Plasma FVIII Levels and Avoids Inhibitor Formation. <i>Blood</i> , <b>2020</b> , 136, 34-34	2.2	
591	Administration of Cells Engineered to Secrete Fviii-mcoET3 in Prenatal Sheep Recipients Results in Sustained Curative Fviii Plasma Levels for 3 Years after Birth, without Immune or Toxicity-Related Adverse Events. <i>Blood</i> , <b>2020</b> , 136, 1-2	2.2	1
590	Evaluation of Maternal Safety Following Prenatal Cell and Gene Therapy for Hemophilia a in a Large Animal Model Demonstrates Absence of Maternal Exposure to the Cells or Gene Products Infused into the Fetus. <i>Blood</i> , <b>2020</b> , 136, 32-32	2.2	

589 Tissue Engineered Renal Tissue **2020**, 1-25

588 Energy Band Gap Investigation of Biomaterials: A Comprehensive Material Approach for Biocompatibility of Medical Electronic Devices. *Micromachines*, **2020**, 11, 3-3 9

587 CRISPR/Cas9 increases mitotic gene conversion in human cells. *Gene Therapy*, **2020**, 27, 281-296 4 10

586 Multimaterial Dual Gradient Three-Dimensional Printing for Osteogenic Differentiation and Spatial Segregation. *Tissue Engineering - Part A*, **2020**, 26, 239-252 3-9 14

585 Kidney regeneration approaches for translation. *World Journal of Urology*, **2020**, 38, 2075-2079 4 3

584 3-D bioprinting technologies for tissue engineering applications **2020**, 269-288 4

583 Bioprinted Skin Recapitulates Normal Collagen Remodeling in Full-Thickness Wounds. *Tissue Engineering - Part A*, **2020**, 26, 512-526 3-9 34

582 ECM concentration and cell-mediated traction forces play a role in vascular network assembly in 3D bioprinted tissue. *Biotechnology and Bioengineering*, **2020**, 117, 1148-1158 4-9 14

581 Age-related presence of spermatogonia in patients with Klinefelter syndrome: a systematic review and meta-analysis. *Human Reproduction Update*, **2020**, 26, 58-72 15.8 22

580 Opportunities and challenges of translational 3D bioprinting. *Nature Biomedical Engineering*, **2020**, 4, 370-380 19 144

579 Efficient myotube formation in 3D bioprinted tissue construct by biochemical and topographical cues. *Biomaterials*, **2020**, 230, 119632 15.6 65

578 Sensitive and reliable evaluation of single-cut sgRNAs to restore dystrophin by a GFP-reporter assay. *PLoS ONE*, **2020**, 15, e0239468 3-7 5

577 Defining the Optimal FVIII Transgene for Placental Cell-Based Gene Therapy to Treat Hemophilia A. *Molecular Therapy - Methods and Clinical Development*, **2020**, 17, 465-477 6.4 5

576 Administration of secretome from human placental stem cell-conditioned media improves recovery of erectile function in the pelvic neurovascular injury model. *Journal of Tissue Engineering and Regenerative Medicine*, **2020**, 14, 1394-1402 4-4 1

575 Microfluidic Systems for Assisted Reproductive Technologies: Advantages and Potential Applications. *Tissue Engineering and Regenerative Medicine*, **2020**, 17, 787-800 4-5 4

574 Formation and optimization of three-dimensional organoids generated from urine-derived stem cells for renal function in vitro. *Stem Cell Research and Therapy*, **2020**, 11, 309 8-3 7

573 Decellularized Skin Extracellular Matrix (dsECM) Improves the Physical and Biological Properties of Fibrinogen Hydrogel for Skin Bioprinting Applications. *Nanomaterials*, **2020**, 10, 5-4 16

572 NIR fluorescence for monitoring in vivo scaffold degradation along with stem cell tracking in bone tissue engineering. *Biomaterials*, **2020**, 258, 120267 15.6 17

571	Transport of ultrasmall gold nanoparticles (2nm) across the blood-brain barrier in a six-cell brain spheroid model. <i>Scientific Reports</i> , <b>2020</b> , 10, 18033	4.9	14
570	Solid Organ Bioprinting: Strategies to Achieve Organ Function. <i>Chemical Reviews</i> , <b>2020</b> , 120, 11093-11128	17.1	22
569	3D Bioprinted Highly Elastic Hybrid Constructs for Advanced Fibrocartilaginous Tissue Regeneration. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 8733-8746	9.6	14
568	Inkjet Printing of Synthesized Melanin Nanoparticles as a Biocompatible Matrix for Pharmacologic Agents. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	2
567	The Influence of Printing Parameters and Cell Density on Bioink Printing Outcomes. <i>Tissue Engineering - Part A</i> , <b>2020</b> , 26, 1349-1358	3.9	15
566	Methods to generate tissue-derived constructs for regenerative medicine applications. <i>Methods</i> , <b>2020</b> , 171, 3-10	4.6	14
565	Stromal cells from perinatal and adult sources modulate the inflammatory immune response in vitro by decreasing Th1 cell proliferation and cytokine secretion. <i>Stem Cells Translational Medicine</i> , <b>2020</b> , 9, 61-73	6.9	9
564	Encapsulation of Mesenchymal Stem Cells in 3D Ovarian Cell Constructs Promotes Stable and Long-Term Hormone Secretion with Improved Physiological Outcomes in a Syngeneic Rat Model. <i>Annals of Biomedical Engineering</i> , <b>2020</b> , 48, 1058-1070	4.7	14
563	A novel decellularized skeletal muscle-derived ECM scaffolding system for in situ muscle regeneration. <i>Methods</i> , <b>2020</b> , 171, 77-85	4.6	21
562	Amnion membrane hydrogel and amnion membrane powder accelerate wound healing in a full thickness porcine skin wound model. <i>Stem Cells Translational Medicine</i> , <b>2020</b> , 9, 80-92	6.9	27
561	Bladder Tissue Engineering: The Past and the Future. <i>Urology</i> , <b>2020</b> , 145, 337-338	1.6	2
560	Extrusion-Based Bioprinting: Current Standards and Relevancy for Human-Sized Tissue Fabrication. <i>Methods in Molecular Biology</i> , <b>2020</b> , 2140, 65-92	1.4	8
559	3D reconstruction of CT scans aid in preoperative planning for sarcomatoid renal cancer: A case report and mini-review. <i>Journal of X-Ray Science and Technology</i> , <b>2019</b> , 27, 389-395	2.1	2
558	Scaffolds for vaginal tissue reconstruction <b>2019</b> , 317-332		
557	Use of uniformly sized muscle fiber fragments for restoration of muscle tissue function. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2019</b> , 13, 1230-1240	4.4	
556	Physics of bioprinting. <i>Applied Physics Reviews</i> , <b>2019</b> , 6, 021315	17.3	17
555	Biofabrication of tissue-specific extracellular matrix proteins to enhance the expansion and differentiation of skeletal muscle progenitor cells. <i>Applied Physics Reviews</i> , <b>2019</b> , 6, 021309	17.3	5
554	Engineering blood vessels and vascularized tissues: technology trends and potential clinical applications. <i>Clinical Science</i> , <b>2019</b> , 133, 1115-1135	6.5	38

553	Effect of Human Amniotic Fluid Stem Cells on Kidney Function in a Model of Chronic Kidney Disease. <i>Tissue Engineering - Part A</i> , <b>2019</b> , 25, 1493-1503	3.9	9
552	Bladder Organoids and Spheroids: Potential Tools for Normal and Diseased Tissue Modelling. <i>Anticancer Research</i> , <b>2019</b> , 39, 1105-1118	2.3	17
551	Skin tissue regeneration for burn injury. <i>Stem Cell Research and Therapy</i> , <b>2019</b> , 10, 94	8.3	103
550	Kidney regeneration with biomimetic vascular scaffolds based on vascular corrosion casts. <i>Acta Biomaterialia</i> , <b>2019</b> , 95, 328-336	10.8	12
549	A Photo-Crosslinkable Kidney ECM-Derived Bioink Accelerates Renal Tissue Formation. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1800992	10.1	97
548	Regenerative Medicine for the Male Reproductive System <b>2019</b> , 1251-1261		1
547	Stem Cells From the Amnion <b>2019</b> , 133-148		4
546	Three-Dimensional Tissue and Organ Printing in Regenerative Medicine <b>2019</b> , 831-852		8
545	Regenerative Medicine Approaches for Tissue Engineered Heart Valves <b>2019</b> , 1041-1058		4
544	Regenerative Medicine Approaches for the Kidney <b>2019</b> , 1165-1177		
543	Regenerative Medicine for the Female Reproductive System <b>2019</b> , 1237-1250		3
542	Regenerative Medicine of the Bladder <b>2019</b> , 1263-1279		2
541	Delivering Cas9/sgRNA ribonucleoprotein (RNP) by lentiviral capsid-based bionanoparticles for efficient <del>hit</del> -and-run genome editing. <i>Nucleic Acids Research</i> , <b>2019</b> , 47, e99	20.1	36
540	Impaired Regeneration Potential in Urinary Stem Cells Diagnosed from the Patients with Diabetic Nephropathy. <i>Theranostics</i> , <b>2019</b> , 9, 4221-4232	12.1	10
539	Non-Invasive Cell Tracking with Brighter and Red-Transferred Luciferase for Potential Application in Stem Cell Therapy. <i>Cell Transplantation</i> , <b>2019</b> , 28, 1542-1551	4	5
538	Nanosensors for therapeutic drug monitoring: implications for transplantation. <i>Nanomedicine</i> , <b>2019</b> , 14, 2735-2747	5.6	11
537	Towards clinical application of tissue engineering for erectile penile regeneration. <i>Nature Reviews Urology</i> , <b>2019</b> , 16, 734-744	5.5	5
536	Effects of Extracellular Vesicles Derived from Mesenchymal Stem/Stromal Cells on Liver Diseases. <i>Current Stem Cell Research and Therapy</i> , <b>2019</b> , 14, 442-452	3.6	4

535 Clinical Application of Stem/Stromal Cells in Cystic Fibrosis **2019**, 179-198

534 Cell-derived Secretome for the Treatment of Renal Disease. *Childhood Kidney Diseases*, **2019**, 23, 67-76 0.3

533 Bioprinted trachea constructs with patient-matched design, mechanical and biological properties. *Biofabrication*, **2019**, 12, 015022 10.5 22

532 Skin bioprinting: the future of burn wound reconstruction?. *Burns and Trauma*, **2019**, 7, 4 5.3 51

531 In Situ Bioprinting of Autologous Skin Cells Accelerates Wound Healing of Extensive Excisional Full-Thickness Wounds. *Scientific Reports*, **2019**, 9, 1856 4.9 171

530 Delivering SaCas9 mRNA by lentivirus-like bionanoparticles for transient expression and efficient genome editing. *Nucleic Acids Research*, **2019**, 47, e44 20.1 33

529 Purging of malignant cell contamination prior to spermatogonia stem cell autotransplantation to preserve fertility: progress & prospects. *Current Opinion in Endocrinology, Diabetes and Obesity*, **2019**, 26, 166-174 4 3

528 Long-term therapeutic effect of cell therapy on improvement in erectile function in a rat model with pelvic neurovascular injury. *BJU International*, **2019**, 124, 145-154 5.6 12

527 Stem Cell Therapy for Erectile Dysfunction. *Sexual Medicine Reviews*, **2019**, 7, 321-328 5.6 28

526 Preface. *Current Stem Cell Research and Therapy*, **2018**, 13, 2 3.6

525 Biosensing Technologies for Medical Applications, Manufacturing, and Regenerative Medicine. *Current Stem Cell Reports*, **2018**, 4, 105-115 1.8 18

524 Exosomes secreted by placental stem cells selectively inhibit growth of aggressive prostate cancer cells. *Biochemical and Biophysical Research Communications*, **2018**, 499, 1004-1010 3.4 23

523 The potential of 3D printing in urological research and patient care. *Nature Reviews Urology*, **2018**, 15, 213-221 5.5 34

522 A human bone marrow mesodermal-derived cell population with hemogenic potential. *Leukemia*, **2018**, 32, 1575-1586 10.7 3

521 3D bioprinted functional and contractile cardiac tissue constructs. *Acta Biomaterialia*, **2018**, 70, 48-56 10.8 153

520 In Situ Tissue Regeneration of Renal Tissue Induced by Collagen Hydrogel Injection. *Stem Cells Translational Medicine*, **2018**, 7, 241-250 6.9 16

519 Genitourinary Radiology, 6th edDunnickN.R., NewhouseJ.H., CohanR.H. and MaturenK.E.: Genitourinary Radiology, 6th ed. Philadelphia: Wolters Kluwer2018. 512 pages.. *Journal of Urology*, **2018**, 199, 1073-1073 2.5

518 Cell therapy for stress urinary incontinence: Present-day frontiers. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, e1108-e1121 4.4 19

517	Immunomodulatory Cell Therapy to Target Cystic Fibrosis Inflammation. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2018</b> , 58, 12-20	5.7	11
516	Biomaterials and Tissue Engineering <b>2018</b> , 17-51		21
515	Self-assembled liver organoids recapitulate hepatobiliary organogenesis in vitro. <i>Hepatology</i> , <b>2018</b> , 67, 750-761	11.2	67
514	Cryostorage of immature and mature human testis tissue to preserve spermatogonial stem cells (SSCs): a systematic review of current experiences toward clinical applications. <i>Stem Cells and Cloning: Advances and Applications</i> , <b>2018</b> , 11, 23-38	2.6	11
513	Environmental Toxin Screening Using Human-Derived 3D Bioengineered Liver and Cardiac Organoids. <i>Frontiers in Public Health</i> , <b>2018</b> , 6, 103	6	48
512	Human Urine-Derived Stem Cell Differentiation to Endothelial Cells with Barrier Function and Nitric Oxide Production. <i>Stem Cells Translational Medicine</i> , <b>2018</b> , 7, 686-698	6.9	28
511	An Industry-Driven Roadmap for Manufacturing in Regenerative Medicine. <i>Stem Cells Translational Medicine</i> , <b>2018</b> , 7, 564-568	6.9	16
510	miR-122 inhibition in a human liver organoid model leads to liver inflammation, necrosis, steatofibrosis and dysregulated insulin signaling. <i>PLoS ONE</i> , <b>2018</b> , 13, e0200847	3.7	31
509	3D Bioprinted Human Skeletal Muscle Constructs for Muscle Function Restoration. <i>Scientific Reports</i> , <b>2018</b> , 8, 12307	4.9	106
508	3D Bioprinted BioMask for Facial Skin Reconstruction. <i>Bioprinting</i> , <b>2018</b> , 10, e00028-e00028	7	42
507	Comparative analysis of two porcine kidney decellularization methods for maintenance of functional vascular architectures. <i>Acta Biomaterialia</i> , <b>2018</b> , 75, 226-234	10.8	26
506	History and Development of Regenerative Medicine and Tissue Engineering in Urology <b>2018</b> , 289-317		2
505	Optimization of gelatin-alginate composite bioink printability using rheological parameters: a systematic approach. <i>Biofabrication</i> , <b>2018</b> , 10, 034106	10.5	196
504	Controlled release of insulin-like growth factor 1 enhances urethral sphincter function and histological structure in the treatment of female stress urinary incontinence in a rat model. <i>BJU International</i> , <b>2018</b> , 121, 301-312	5.6	6
503	Urothelium with barrier function differentiated from human urine-derived stem cells for potential use in urinary tract reconstruction. <i>Stem Cell Research and Therapy</i> , <b>2018</b> , 9, 304	8.3	26
502	Translation and Applications of Biofabrication <b>2018</b> , 451-484		1
501	Review of Processing Technology and Techniques for Perinatal Stem Cells Banking and Clinical Applications <b>2018</b> , 337-355		
500	Skeletal myogenic differentiation of human urine-derived cells as a potential source for skeletal muscle regeneration. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2017</b> , 11, 334-341	4.4	17

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490	Urological Tissue Cultures. <i>Journal of Urology</i> , <b>2017</b> , 197, S15-S16	2.5	
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487	A quantitative, multi-national and multi-stakeholder assessment of barriers to the adoption of cell therapies. <i>Journal of Tissue Engineering</i> , <b>2017</b> , 8, 2041731417724413	7.5	11
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1	Tissue Engineering, Genitourinary: Biomaterials for7996-8006		