Paolo De Coppi

List of Publications by Citations

322 papers	11,086 citations	54 h-index	95 g-index
358 ext. papers	13,015 ext. citations	5.5 avg, IF	6.21 L-index

#	Paper	IF	Citations
322	Isolation of amniotic stem cell lines with potential for therapy. *Nature Biotechnology*, **2007**, 25, 100-6	44.5	1508
321	Stem-cell-based, tissue engineered tracheal replacement in a child: a 2-year follow-up study. *Lancet, The*, **2012**, 380, 994-1000	40	352
320	Decellularized human liver as a natural 3D-scaffold for liver bioengineering and transplantation. *Scientific Reports*, **2015**, 5, 13079	4.9	265
319	The origin of intermuscular adipose tissue and its pathophysiological implications. *American Journal of Physiology - Endocrinology and Metabolism*, **2009**, 297, E987-98	6	183
318	Production and implantation of renal extracellular matrix scaffolds from porcine kidneys as a platform for renal bioengineering investigations. *Annals of Surgery*, **2012**, 256, 363-70	7.8	176
317	Amniotic fluid and bone marrow derived mesenchymal stem cells can be converted to smooth muscle cells in the cryo-injured rat bladder and prevent compensatory hypertrophy of surviving smooth muscle cells. *Journal of Urology*, **2007**, 177, 369-76	2.5	175
316	A rat decellularized small bowel scaffold that preserves villus-crypt architecture for intestinal regeneration. *Biomaterials*, **2012**, 33, 3401-10	15.6	163
315	Tissue engineered human tracheas for in vivo implantation. *Biomaterials*, **2010**, 31, 8931-8	15.6	162
314	Immunomodulatory effect of a decellularized skeletal muscle scaffold in a discordant xenotransplantation model. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 14360-5	11.5	155
313	Extracellular matrix hydrogel derived from decellularized tissues enables endodermal organoid culture. *Nature Communications*, **2019**, 10, 5658	17.4	155
312	Discarded human kidneys as a source of ECM scaffold for kidney regeneration technologies. *Biomaterials*, **2013**, 34, 5915-25	15.6	154
311	In vivo tissue engineering of functional skeletal muscle by freshly isolated satellite cells embedded in a photopolymerizable hydrogel. *FASEB Journal*, **2011**, 25, 2296-304	0.9	144
310	Opportunities and challenges of translational 3D bioprinting. *Nature Biomedical Engineering*, **2020**, 4, 370-380	19	144
309	Amniotic fluid stem cells improve survival and enhance repair of damaged intestine in necrotising enterocolitis via a COX-2 dependent mechanism. *Gut*, **2014**, 63, 300-9	19.2	132
308	Regenerative medicine as applied to solid organ transplantation: current status and future challenges. *Transplant International*, **2011**, 24, 223-32	3	130
307	Valproic acid confers functional pluripotency to human amniotic fluid stem cells in a transgene-free approach. *Molecular Therapy*, **2012**, 20, 1953-67	11.7	128
306	Human amniotic fluid-derived stem cells are rejected after transplantation in the myocardium of normal, ischemic, immuno-suppressed or immuno-deficient rat. *Journal of Molecular and Cellular Cardiology*, **2007**, 42, 746-59	5.8	127

305	Tracheal matrices, obtained by a detergent-enzymatic method, support in vitro the adhesion of chondrocytes and tracheal epithelial cells. *Transplant International*, **2005**, 18, 727-34	3	127
304	Tissue-Engineered Tracheal Replacement in a Child: A 4-Year Follow-Up Study. *American Journal of Transplantation*, **2015**, 15, 2750-7	8.7	125
303	Lancet Commission: Stem cells and regenerative medicine. *Lancet, The*, **2018**, 391, 883-910	40	124
302	Stem cells derived from amniotic fluid: new potentials in regenerative medicine. *Reproductive BioMedicine Online*, **2009**, 18 Suppl 1, 17-27	4	124
301	Rapid Expansion of Human Epithelial Stem Cells Suitable for Airway Tissue Engineering. *American Journal of Respiratory and Critical Care Medicine*, **2016**, 194, 156-68	10.2	121
300	Human and murine amniotic fluid c-Kit+Lin- cells display hematopoietic activity. *Blood*, **2009**, 113, 3953-60	10.2	121
299	Gastrointestinal features in children with COVID-19: an observation of varied presentation in eight children. *The Lancet Child and Adolescent Health*, **2020**, 4, e19-e20	14.5	112
298	Amniotic fluid and placental stem cells. *Methods in Enzymology*, **2006**, 419, 426-38	1.7	109
297	Human amniotic fluid stem cell preconditioning improves their regenerative potential. *Stem Cells and Development*, **2012**, 21, 1911-23	4.4	103
296	Amniotic fluid stem cells are cardioprotective following acute myocardial infarction. *Stem Cells and Development*, **2011**, 20, 1985-94	4.4	94
295	Myoblast-acellular skeletal muscle matrix constructs guarantee a long-term repair of experimental full-thickness abdominal wall defects. *Tissue Engineering*, **2006**, 12, 1929-36		87
294	Decreased cerebral oxygen saturation during thoracoscopic repair of congenital diaphragmatic hernia and esophageal atresia in infants. *Journal of Pediatric Surgery*, **2011**, 46, 47-51	2.6	83
293	Advances in musculoskeletal tissue engineering: moving towards therapy. *Organogenesis*, **2010**, 6, 167-72	2.7	79
292	Regenerative medicine as applied to general surgery. *Annals of Surgery*, **2012**, 255, 867-80	7.8	79
291	Secretome of adipose-derived mesenchymal stem cells promotes skeletal muscle regeneration through synergistic action of extracellular vesicle cargo and soluble proteins. *Stem Cell Research and Therapy*, **2019**, 10, 116	8.3	76
290	In vitro and in vivo cardiomyogenic differentiation of amniotic fluid stem cells. *Stem Cell Reviews and Reports*, **2011**, 7, 364-80	6.4	75
289	Morphometric and dynamic studies of bone changes in hyperthyroidism. *Tissue Engineering*, **1977**, 85A, 141-50		75
288	Production of arrays of cardiac and skeletal muscle myofibers by micropatterning techniques on a soft substrate. *Biomedical Microdevices*, **2009**, 11, 389-400	3.7	73

287	The surgical approach to esophageal atresia repair and the management of long-gap atresia: results of a survey. *Seminars in Pediatric Surgery*, **2009**, 18, 44-9	2.1	72
286	Concise Review: Amniotic Fluid Stem Cells: The Known, the Unknown, and Potential Regenerative Medicine Applications. *Stem Cells*, **2017**, 35, 1663-1673	5.8	71
285	CD117(+) amniotic fluid stem cells: state of the art and future perspectives. *Organogenesis*, **2012**, 8, 77-82	2.7	71
284	Comparative study of immune regulatory properties of stem cells derived from different tissues. *Stem Cells and Development*, **2013**, 22, 2990-3002	4.4	68
283	The influence of heart valve leaflet matrix characteristics on the interaction between human mesenchymal stem cells and decellularized scaffolds. *Biomaterials*, **2009**, 30, 4104-16	15.6	68
282	Intravital three-dimensional bioprinting. *Nature Biomedical Engineering*, **2020**, 4, 901-915	19	65
281	Advanced necrotizing enterocolitis part 1: mortality. *European Journal of Pediatric Surgery*, **2012**, 22, 8-12	1.9	65
280	An automated framework for localization, segmentation and super-resolution reconstruction of fetal brain MRI. *NeuroImage*, **2020**, 206, 116324	7.9	64
279	Thoracoscopic repair of congenital diaphragmatic hernia: intraoperative ventilation and recurrence. *Journal of Pediatric Surgery*, **2010**, 45, 355-9	2.6	63
278	Autologous transplantation of amniotic fluid-derived mesenchymal stem cells into sheep fetuses. *Cell Transplantation*, **2011**, 20, 1015-31	4	61
277	ES, iPS, MSC, and AFS cells. Stem cells exploitation for Pediatric Surgery: current research and perspective. *Pediatric Surgery International*, **2010**, 26, 3-10	2.1	61
276	Rosiglitazone modifies the adipogenic potential of human muscle satellite cells. *Diabetologia*, **2006**, 49, 1962-73	10.3	61
275	Clonal characterization of rat muscle satellite cells: proliferation, metabolism and differentiation define an intrinsic heterogeneity. *PLoS ONE*, **2010**, 5, e8523	3.7	60
274	Placenta as a reservoir of stem cells: an underutilized resource?. *British Medical Bulletin*, **2013**, 105, 43-68	5.4	59
273	Vacuum-assisted decellularization: an accelerated protocol to generate tissue-engineered human tracheal scaffolds. *Biomaterials*, **2017**, 124, 95-105	15.6	56
272	Amniotic fluid stem cells restore the muscle cell niche in a HSA-Cre, Smn(F7/F7) mouse model. *Stem Cells*, **2012**, 30, 1675-84	5.8	56
271	Airway tissue engineering: an update. *Expert Opinion on Biological Therapy*, **2014**, 14, 1477-91	5.4	55
270	Rapid production of human liver scaffolds for functional tissue engineering by high shear stress oscillation-decellularization. *Scientific Reports*, **2017**, 7, 5534	4.9	55

269	Adaptable haemodynamic endothelial cells for organogenesis and tumorigenesis. *Nature*, **2020**, 585, 426-432	50.4	54
268	Amniotic fluid stem cells rescue both in vitro and in vivo growth, innervation, and motility in nitrofen-exposed hypoplastic rat lungs through paracrine effects. *Cell Transplantation*, **2013**, 22, 1683-94	4	53
267	Skeletal muscle tissue engineering: which cell to use?. *Tissue Engineering - Part B: Reviews*, **2013**, 19, 503-15	7.9	52
266	Preservation of micro-architecture and angiogenic potential in a pulmonary acellular matrix obtained using intermittent intra-tracheal flow of detergent enzymatic treatment. *Biomaterials*, **2013**, 34, 6638-48	15.6	52
265	Optimization of Liver Decellularization Maintains Extracellular Matrix Micro-Architecture and Composition Predisposing to Effective Cell Seeding. *PLoS ONE*, **2016**, 11, e0155324	3.7	52
264	Detergent enzymatic treatment for the development of a natural acellular matrix for oesophageal regeneration. *Pediatric Surgery International*, **2013**, 29, 87-95	2.1	51
263	Human mid-trimester amniotic fluid stem cells cultured under embryonic stem cell conditions with valproic acid acquire pluripotent characteristics. *Stem Cells and Development*, **2013**, 22, 444-58	4.4	51
262	Muscle differentiation and myotubes alignment is influenced by micropatterned surfaces and exogenous electrical stimulation. *Tissue Engineering - Part A*, **2009**, 15, 2447-57	3.9	51
261	Ontological differences in first compared to third trimester human fetal placental chorionic stem cells. *PLoS ONE*, **2012**, 7, e43395	3.7	51
260	Esophageal tissue engineering: a new approach for esophageal replacement. *World Journal of Gastroenterology*, **2012**, 18, 6900-7	5.6	50
259	Amniotic fluid stem cell migration after intraperitoneal injection in pup rats: implication for therapy. *Pediatric Surgery International*, **2010**, 26, 79-84	2.1	49
258	Antenatal management of isolated congenital diaphragmatic hernia today and tomorrow: ongoing collaborative research and development. Journal of Pediatric Surgery Lecture. *Journal of Pediatric Surgery*, **2012**, 47, 282-90	2.6	48
257	Human amniotic fluid stem cells protect rat lungs exposed to moderate hyperoxia. *Pediatric Pulmonology*, **2013**, 48, 1070-80	3.5	48
256	Increased adipogenic conversion of muscle satellite cells in obese Zucker rats. *International Journal of Obesity*, **2010**, 34, 1319-27	5.5	47
255	Tracheal Replacement Therapy with a Stem Cell-Seeded Graft: Lessons from Compassionate Use Application of a GMP-Compliant Tissue-Engineered Medicine. *Stem Cells Translational Medicine*, **2017**, 6, 1458-1464	6.9	45
254	Improvement of diaphragmatic performance through orthotopic application of decellularized extracellular matrix patch. *Biomaterials*, **2016**, 74, 245-55	15.6	45
253	Surgical repair of incarcerated inguinal hernia in children: laparoscopic or open?. *European Journal of Pediatric Surgery*, **2011**, 21, 8-11	1.9	43
252	Decellularized colorectal cancer matrix as bioactive microenvironment for in vitro 3D cancer research. *Journal of Cellular Physiology*, **2018**, 233, 5937-5948	7	43

251	Multi-stage bioengineering of a layered oesophagus with in vitro expanded muscle and epithelial adult progenitors. *Nature Communications*, **2018**, 9, 4286	17.4	43
250	Embryonic Stem Cell-Derived Mesenchymal Stem Cells (MSCs) Have a Superior Neuroprotective Capacity Over Fetal MSCs in the Hypoxic-Ischemic Mouse Brain. *Stem Cells Translational Medicine*, **2018**, 7, 439-449	6.9	42
249	Stem-cell therapy in an experimental model of pulmonary hypertension and right heart failure: role of paracrine and neurohormonal milieu in the remodeling process. *Journal of Heart and Lung Transplantation*, **2011**, 30, 1281-93	5.8	42
248	The predictive value of preoperative fluorine-18-L-3,4-dihydroxyphenylalanine positron emission tomography-computed tomography scans in children with congenital hyperinsulinism of infancy. *Journal of Pediatric Surgery*, **2011**, 46, 204-8	2.6	42
247	Immune regulatory properties of CD117(pos) amniotic fluid stem cells vary according to gestational age. *Stem Cells and Development*, **2015**, 24, 132-43	4.4	40
246	Efficient delivery of human single fiber-derived muscle precursor cells via biocompatible scaffold. *Cell Transplantation*, **2008**, 17, 577-84	4	40
245	Is early delivery beneficial in gastroschisis?. *Journal of Pediatric Surgery*, **2014**, 49, 928-33; discussion 933	2.6	39
244	Duhamel pull-through for Hirschsprung disease: a comparison of open and laparoscopic techniques. *Journal of Pediatric Surgery*, **2012**, 47, 308-12	2.6	39
243	High transduction efficiency of human amniotic fluid stem cells mediated by adenovirus vectors. *Stem Cells and Development*, **2008**, 17, 953-62	4.4	39
242	Cell therapy for kidney injury: different options and mechanisms--mesenchymal and amniotic fluid stem cells. *Nephron Experimental Nephrology*, **2014**, 126, 59		38
241	Stem cells from amniotic fluid--Potential for regenerative medicine. *Best Practice and Research in Clinical Obstetrics and Gynaecology*, **2016**, 31, 45-57	4.6	37
240	Decellularized Tissue for Muscle Regeneration. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	37
239	Decellularised skeletal muscles allow functional muscle regeneration by promoting host cell migration. *Scientific Reports*, **2018**, 8, 8398	4.9	37
238	Gastroschisis with intestinal atresia--predictive value of antenatal diagnosis and outcome of postnatal treatment. *Journal of Pediatric Surgery*, **2012**, 47, 322-8	2.6	36
237	Airway tissue engineering. *Expert Opinion on Biological Therapy*, **2011**, 11, 1623-35	5.4	36
236	Tissue engineering vascular grafts a fortiori: looking back and going forward. *Expert Opinion on Biological Therapy*, **2015**, 15, 231-44	5.4	35
235	Whole Organ Tissue Vascularization: Engineering the Tree to Develop the Fruits. *Frontiers in Bioengineering and Biotechnology*, **2018**, 6, 56	5.8	35
234	Tissue engineering of the esophagus. *Seminars in Pediatric Surgery*, **2014**, 23, 127-34	2.1	35

233	Morbidity after ganglioneuroma excision: is surgery necessary?. *European Journal of Pediatric Surgery*, **2011**, 21, 33-7	1.9	35
232	In vitro and in vivo evaluation of acellular diaphragmatic matrices seeded with muscle precursors cells and coated with VEGF silica gels to repair muscle defect of the diaphragm. *Journal of Biomedical Materials Research - Part A*, **2009**, 89, 304-16	5.4	33
231	Human bone marrow-derived CD133(+) cells delivered to a collagen patch on cryoinjured rat heart promote angiogenesis and arteriogenesis. *Cell Transplantation*, **2010**, 19, 1247-60	4	31
230	Engineering transplantable jejunal mucosal grafts using patient-derived organoids from children with intestinal failure. *Nature Medicine*, **2020**, 26, 1593-1601	50.5	31
229	Testicular outcome following laparoscopic second stage Fowler-Stephens orchidopexy. *Journal of Pediatric Urology*, **2014**, 10, 186-92	1.5	30
228	Molecular signature of human amniotic fluid stem cells during fetal development. *Current Stem Cell Research and Therapy*, **2013**, 8, 73-81	3.6	30
227	Mesenchymal stromal cells can be derived from bone marrow CD133+ cells: implications for therapy. *Stem Cells and Development*, **2009**, 18, 497-510	4.4	30
226	Tissue engineering: an option for esophageal replacement?. *Seminars in Pediatric Surgery*, **2009**, 18, 57-62	2.1	30
225	Long-term cryopreservation of decellularised oesophagi for tissue engineering clinical application. *PLoS ONE*, **2017**, 12, e0179341	3.7	30
224	Potential of human fetal chorionic stem cells for the treatment of osteogenesis imperfecta. *Stem Cells and Development*, **2014**, 23, 262-76	4.4	29
223	Routine clonal expansion of mesenchymal stem cells derived from amniotic fluid for perinatal applications. *Prenatal Diagnosis*, **2013**, 33, 921-8	3.2	29
222	A decellularization methodology for the production of a natural acellular intestinal matrix. *Journal of Visualized Experiments*, **2013**,	1.6	29
221	Captopril reduces the severity of bowel damage in a neonatal rat model of necrotizing enterocolitis. *Journal of Pediatric Surgery*, **2008**, 43, 308-14	2.6	29
220	High contrast microstructural visualization of natural acellular matrices by means of phase-based x-ray tomography. *Scientific Reports*, **2015**, 5, 18156	4.9	29
219	Protein and Molecular Characterization of a Clinically Compliant Amniotic Fluid Stem Cell-Derived Extracellular Vesicle Fraction Capable of Accelerating Muscle Regeneration Through Enhancement of Angiogenesis. *Stem Cells and Development*, **2017**, 26, 1316-1333	4.4	28
218	Human amniotic fluid stem cell differentiation along smooth muscle lineage. *FASEB Journal*, **2013**, 27, 4853-65	0.9	28
217	Combined Notch and PDGF Signaling Enhances Migration and Expression of Stem Cell Markers while Inducing Perivascular Cell Features in Muscle Satellite Cells. *Stem Cell Reports*, **2019**, 12, 461-473	8	28
216	Amniotic fluid stem cells increase embryo survival following injury. *Stem Cells and Development*, **2012**, 21, 675-88	4.4	27

215	Effect of sodium deficiency on growth of surgical infants: a retrospective observational study. *Pediatric Surgery International*, **2014**, 30, 1279-84	2.1	26
214	Mechanisms of lipase maturation. *Clinical Lipidology*, **2010**, 5, 71-85		26
213	Single-Shot X-Ray Phase-Contrast Computed Tomography with Nonmicrofocal Laboratory Sources. *Physical Review Applied*, **2017**, 7,	4.3	25
212	Endothelial properties of third-trimester amniotic fluid stem cells cultured in hypoxia. *Stem Cell Research and Therapy*, **2015**, 6, 209	8.3	25
211	Dry acellular oesophageal matrix prepared by supercritical carbon dioxide. *Journal of Supercritical Fluids*, **2016**, 115, 33-41	4.2	25
210	Recurrence rate of Morgagni diaphragmatic hernia following laparoscopic repair. *Pediatric Surgery International*, **2013**, 29, 185-9	2.1	24
209	Autologous Cell Seeding in Tracheal Tissue Engineering. *Current Stem Cell Reports*, **2017**, 3, 279-289	1.8	24
208	Chlorhexidine antisepsis significantly reduces the incidence of sepsis and septicemia during parenteral nutrition in surgical infants. *Journal of Pediatric Surgery*, **2011**, 46, 1064-9	2.6	24
207	Decellularized rabbit cricoarytenoid dorsalis muscle for laryngeal regeneration. *Annals of Otology, Rhinology and Laryngology*, **2012**, 121, 129-38	2.1	24
206	Hypoxia increases mouse satellite cell clone proliferation maintaining both in vitro and in vivo heterogeneity and myogenic potential. *PLoS ONE*, **2012**, 7, e49860	3.7	24
205	Regenerative medicine for congenital malformations. *Journal of Pediatric Surgery*, **2013**, 48, 273-80	2.6	23
204	A systematic review and meta-analysis on fetal ovarian cysts: impact of size, appearance and prenatal aspiration. *Prenatal Diagnosis*, **2017**, 37, 951-958	3.2	23
203	In utero therapy for congenital disorders using amniotic fluid stem cells. *Frontiers in Pharmacology*, **2014**, 5, 270	5.6	23
202	Amyloid persistence in decellularized liver: biochemical and histopathological characterization. *Amyloid: the International Journal of Experimental and Clinical Investigation: the Official Journal of the International Society of Amyloidosis*, **2016**, 23, 1-7	2.7	22
201	Stem cells as a potential therapy for necrotizing enterocolitis. *Expert Opinion on Biological Therapy*, **2013**, 13, 1683-9	5.4	22
200	Current and future antenatal management of isolated congenital diaphragmatic hernia. *Seminars in Fetal and Neonatal Medicine*, **2017**, 22, 383-390	3.7	22
199	Sheep CD34+ amniotic fluid cells have hematopoietic potential and engraft after autologous in utero transplantation. *Stem Cells*, **2015**, 33, 122-32	5.8	22
198	Comparative analysis of the retinal potential of embryonic stem cells and amniotic fluid-derived stem cells. *Stem Cells and Development*, **2011**, 20, 851-63	4.4	22

197	Mouse decellularised liver scaffold improves human embryonic and induced pluripotent stem cells differentiation into hepatocyte-like cells. *PLoS ONE*, **2017**, 12, e0189586	3.7	21
196	Comparison of minimally invasive and open gastric transposition in children. *Journal of Laparoendoscopic and Advanced Surgical Techniques - Part A*, **2014**, 24, 742-9	2.1	21
195	The use of human amniotic fluid stem cells as an adjunct to promote pulmonary development in a rabbit model for congenital diaphragmatic hernia. *Prenatal Diagnosis*, **2015**, 35, 833-40	3.2	21
194	Induced pluripotent stem (iPS) cells from human fetal stem cells (hFSCs). *Organogenesis*, **2013**, 9, 101-10	1.7	21
193	Microliter-bioreactor array with buoyancy-driven stirring for human hematopoietic stem cell culture. *Biomicrofluidics*, **2010**, 4,	3.2	21
192	The role of parenteral nutrition following surgery for duodenal atresia or stenosis. *Pediatric Surgery International*, **2013**, 29, 191-5	2.1	20
191	Amniotic fluid stem cells prevent development of ascites in a neonatal rat model of necrotizing enterocolitis. *European Journal of Pediatric Surgery*, **2014**, 24, 57-60	1.9	20
190	Isolation of c-Kit+ human amniotic fluid stem cells from second trimester. *Methods in Molecular Biology*, **2013**, 1035, 191-8	1.4	20
189	Cirrhotic Human Liver Extracellular Matrix 3D Scaffolds Promote Smad-Dependent TGF-β1 Epithelial Mesenchymal Transition. *Cells*, **2019**, 9,	7.9	20
188	Esophageal Atresia: Improved Outcome in High-Risk Groups Revisited. *European Journal of Pediatric Surgery*, **2016**, 26, 227-31	1.9	19
187	Tissue-Engineering the Intestine: The Trials before the Trials. *Cell Stem Cell*, **2019**, 24, 855-859	18	19
186	Enrichment in c-Kit improved differentiation potential of amniotic membrane progenitor/stem cells. *Placenta*, **2015**, 36, 18-26	3.4	19
185	Stem cells from fetal membranes and amniotic fluid: markers for cell isolation and therapy. *Cell and Tissue Banking*, **2014**, 15, 199-211	2.2	19
184	Outcomes of diverting jejunostomy for severe necrotizing enterocolitis. *Journal of Pediatric Surgery* , **2011**, 46, 1041-4	2.6	19
183	What can regenerative medicine offer for infants with laryngotracheal agenesis?. *Otolaryngology - Head and Neck Surgery*, **2011**, 145, 544-50	5.5	19
182	Clot dissolution: a novel treatment of midgut volvulus. *Pediatrics*, **2012**, 129, e1601-4	7.4	19
181	Counteracting bone fragility with human amniotic mesenchymal stem cells. *Scientific Reports*, **2016**, 6, 39656	4.9	19
180	Post-natal erythromycin exposure and risk of infantile hypertrophic pyloric stenosis: a systematic review and meta-analysis. *Pediatric Surgery International*, **2016**, 32, 1147-1152	2.1	19

179	Selection of multipotent cells and enhanced muscle reconstruction by myogenic macrophage-secreted factors. *Experimental Cell Research*, **2009**, 315, 915-27	4.2	18
178	Decellularized Diaphragmatic Muscle Drives a Constructive Angiogenic Response In Vivo. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	17
177	Fluoroscopic balloon dilation of esophageal atresia anastomotic strictures in children and young adults: single-center study of 103 consecutive patients from 1999 to 2011. *Radiology*, **2014**, 271, 596-601	20.5	17
176	Stem cell therapy as an option for pediatric surgical conditions. *European Journal of Pediatric Surgery*, **2014**, 24, 219-26	1.9	17
175	The outcome of critically ill neonates undergoing laparotomy for necrotising enterocolitis in the neonatal intensive care unit: a 10-year review. *Journal of Pediatric Surgery*, **2014**, 49, 1210-4	2.6	17
174	Three-dimensional porous scaffold allows long-term wild-type cell delivery in dystrophic muscle. *Journal of Tissue Engineering and Regenerative Medicine*, **2011**, 5, 1-10	4.4	17
173	Advanced necrotizing enterocolitis part 2: recurrence of necrotizing enterocolitis. *European Journal of Pediatric Surgery*, **2012**, 22, 13-6	1.9	17
172	Local and systemic responses to SARS-CoV-2 infection in children and adults.. *Nature*, **2021**,	50.4	17
171	Generation of a Functioning and Self-Renewing Diaphragmatic Muscle Construct. *Stem Cells Translational Medicine*, **2019**, 8, 858-869	6.9	16
170	Routine isolation and expansion late mid trimester amniotic fluid derived mesenchymal stem cells in a cohort of fetuses with congenital diaphragmatic hernia. *European Journal of Obstetrics, Gynecology and Reproductive Biology*, **2014**, 178, 157-62	2.4	16
169	Arterial tissue regeneration for pediatric applications: inspiration from up-to-date tissue-engineered vascular bypass grafts. *Artificial Organs*, **2013**, 37, 423-34	2.6	16
168	Enrichment in c-Kit+ enhances mesodermal and neural differentiation of human chorionic placental cells. *Placenta*, **2013**, 34, 526-35	3.4	16
167	Regenerative medicine for congenital diaphragmatic hernia: regeneration for repair. *European Journal of Pediatric Surgery*, **2012**, 22, 393-8	1.9	16
166	Decellularized material as scaffolds for tissue engineering studies in long gap esophageal atresia. *Expert Opinion on Biological Therapy*, **2017**, 17, 573-584	5.4	15
165	Allogenic tissue-specific decellularized scaffolds promote long-term muscle innervation and functional recovery in a surgical diaphragmatic hernia model. *Acta Biomaterialia*, **2019**, 89, 115-125	10.8	15
164	Update on Foregut Molecular Embryology and Role of Regenerative Medicine Therapies. *Frontiers in Pediatrics*, **2017**, 5, 91	3.4	15
163	Therapeutic potential of amniotic fluid stem cells. *Current Stem Cell Research and Therapy*, **2013**, 8, 117-24	3.6	15
162	Double-blind randomized clinical trial of percutaneous endoscopic gastrostomy versus radiologically inserted gastrostomy in children. *British Journal of Surgery*, **2017**, 104, 1620-1627	5.3	14

161	Robust phase retrieval for high resolution edge illumination x-ray phase-contrast computed tomography in non-ideal environments. *Scientific Reports*, **2016**, 6, 31197	4.9	14
160	The contribution of stem cell therapy to skeletal muscle remodeling in heart failure. *International Journal of Cardiology*, **2013**, 168, 2014-21	3.2	14
159	Regenerative medicine solutions in congenital diaphragmatic hernia. *Seminars in Pediatric Surgery*, **2017**, 26, 171-177	2.1	13
158	Monochromatic Propagation-Based Phase-Contrast Microscale Computed-Tomography System with a Rotating-Anode Source. *Physical Review Applied*, **2019**, 11,	4.3	13
157	A retrospective multicenter study of the natural history of fetal ovarian cysts. *Journal of Pediatric Surgery*, **2018**, 53, 2019-2022	2.6	13
156	Human Chorionic Stem Cells: Podocyte Differentiation and Potential for the Treatment of Alport Syndrome. *Stem Cells and Development*, **2016**, 25, 395-404	4.4	13
155	Regeneration and bioengineering of the gastrointestinal tract: current status and future perspectives. *Digestive and Liver Disease*, **2012**, 44, 714-20	3.3	13
154	Cadaver kidney transplantation and vascular anomalies: a pediatric experience. *Transplantation*, **2006**, 82, 1042-5	1.8	13
153	Fundoplication to preserve allograft function after lung transplant: Systematic review and meta-analysis. *Journal of Thoracic and Cardiovascular Surgery*, **2020**, 160, 858-866	1.5	13
152	Activation of Wnt signaling by amniotic fluid stem cell-derived extracellular vesicles attenuates intestinal injury in experimental necrotizing enterocolitis. *Cell Death and Disease*, **2020**, 11, 750	9.8	13
151	Oesophageal atresia is correctable and survivable in infants less than 1 kg. *Pediatric Surgery International*, **2016**, 32, 571-6	2.1	13
150	Laparoscopic Ladd© procedure for malrotation in infants and children is still a controversial approach. *Journal of Pediatric Surgery*, **2019**, 54, 1843-1847	2.6	12
149	Activation of regulatory T cells during inflammatory response is not an exclusive property of stem cells. *PLoS ONE*, **2012**, 7, e35512	3.7	11
148	ERNICA Consensus Conference on the Management of Patients with Esophageal Atresia and Tracheoesophageal Fistula: Follow-up and Framework. *European Journal of Pediatric Surgery*, **2020**, 30, 475-482	1.9	11
147	Decellularized Human Gut as a Natural 3D Platform for Research in Intestinal Fibrosis. *Inflammatory Bowel Diseases*, **2019**, 25, 1740-1750	4.5	10
146	Aortopexy for the treatment of tracheobronchomalacia in 100 children: a 10-year single-centre experience. *European Journal of Cardio-thoracic Surgery*, **2018**, 54, 585-592	3	10
145	First steps to define murine amniotic fluid stem cell microenvironment. *Scientific Reports*, **2016**, 6, 37080	4.9	10
144	Septicaemia due to enteric organisms is a later event in surgical infants requiring parenteral nutrition. *European Journal of Pediatric Surgery*, **2012**, 22, 50-3	1.9	10

143	SARS-CoV-2 infection and replication in human fetal and pediatric gastric organoids		10
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