

# Laura Iop

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

1,828  
citations

257101

24  
h-index

264894

42  
g-index

53  
all docs

53  
docs citations

53  
times ranked

2535  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dantrolene rescues arrhythmogenic RYR2 defect in a patient-specific stem cell model of catecholaminergic polymorphic ventricular tachycardia. <i>EMBO Molecular Medicine</i> , 2012, 4, 180-191.	3.3	298
2	Human amniotic fluid-derived stem cells are rejected after transplantation in the myocardium of normal, ischemic, immuno-suppressed or immuno-deficient rat. <i>Journal of Molecular and Cellular Cardiology</i> , 2007, 42, 746-759.	0.9	144
3	First quantification of alpha-Gal epitope in current glutaraldehyde-fixed heart valve bioprostheses. <i>Xenotransplantation</i> , 2013, 20, 252-261.	1.6	113
4	The influence of heart valve leaflet matrix characteristics on the interaction between human mesenchymal stem cells and decellularized scaffolds. <i>Biomaterials</i> , 2009, 30, 4104-4116.	5.7	79
5	Neovascularization induced by porous collagen scaffold implanted on intact and cryoinjured rat hearts. <i>Biomaterials</i> , 2007, 28, 5449-5461.	5.7	74
6	Decellularized Allogeneic Heart Valves Demonstrate Self-Regeneration Potential after a Long-Term Preclinical Evaluation. <i>PLoS ONE</i> , 2014, 9, e99593.	1.1	71
7	Interplay of cell-cell contacts and RhoA/ MRTF signaling regulates cardiomyocyte identity. <i>EMBO Journal</i> , 2018, 37, .	3.5	66
8	First quantitative assay of alpha-Gal in soft tissues: Presence and distribution of the epitope before and after cell removal from xenogeneic heart valves. <i>Acta Biomaterialia</i> , 2011, 7, 1728-1734.	4.1	65
9	Different Cardiovascular Potential of Adult- and Fetal-Type Mesenchymal Stem Cells in a Rat Model of Heart Cryoinjury. <i>Cell Transplantation</i> , 2008, 17, 679-694.	1.2	63
10	Alpha-Gal detectors in xenotransplantation research: a word of caution. <i>Xenotransplantation</i> , 2012, 19, 215-220.	1.6	59
11	A sterilization method for decellularized xenogeneic cardiovascular scaffolds. <i>Acta Biomaterialia</i> , 2018, 67, 282-294.	4.1	52
12	Mechanical testing of pericardium for manufacturing prosthetic heart valves. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2016, 22, 72-84.	0.5	47
13	Clones of Interstitial Cells From Bovine Aortic Valve Exhibit Different Calcifying Potential When Exposed to Endotoxin and Phosphate. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008, 28, 2165-2172.	1.1	45
14	A Comprehensive Comparison of Bovine and Porcine Decellularized Pericardia: New Insights for Surgical Applications. <i>Biomolecules</i> , 2020, 10, 371.	1.8	42
15	The role of antibody responses against glycans in bioprosthetic heart valve calcification and deterioration. <i>Nature Medicine</i> , 2022, 28, 283-294.	15.2	40
16	<i>In vitro</i> comparative assessment of decellularized bovine pericardial patches and commercial bioprosthetic heart valves. <i>Biomedical Materials (Bristol)</i> , 2017, 12, 015021.	1.7	37
17	Bioengineered tissue solutions for repair, correction and reconstruction in cardiovascular surgery. <i>Journal of Thoracic Disease</i> , 2018, 10, S2390-S2411.	0.6	36
18	Human Bone Marrow-Derived CD133 <sup>+</sup> Cells Delivered to a Collagen Patch on Cryoinjured Rat Heart Promote Angiogenesis and Arteriogenesis. <i>Cell Transplantation</i> , 2010, 19, 1247-1260.	1.2	34

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19	Proteomic Analysis of Clonal Interstitial Aortic Valve Cells Acquiring a Pro-calcific Profile. <i>Journal of Proteome Research</i> , 2010, 9, 5913-5921.	1.8	33
20	Preservation strategies for decellularized pericardial scaffolds for off-the-shelf availability. <i>Acta Biomaterialia</i> , 2019, 84, 208-221.	4.1	33
21	Present and future perspectives on total artificial hearts. <i>Annals of Cardiothoracic Surgery</i> , 2014, 3, 595-602.	0.6	33
22	Guided Tissue Regeneration in Heart Valve Replacement: From Preclinical Research to First-in-Human Trials. <i>BioMed Research International</i> , 2015, 2015, 1-13.	0.9	29
23	Multimodal label-free ex vivo imaging using a dual-wavelength microscope with axial chromatic aberration compensation. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	1.4	27
24	Extracellular pyrophosphate is reduced in aortic interstitial valve cells acquiring a calcifying profile: Implications for aortic valve calcification. <i>Atherosclerosis</i> , 2014, 237, 568-576.	0.4	26
25	Role of coronary microvascular dysfunction in heart failure with preserved ejection fraction. <i>Reviews in Cardiovascular Medicine</i> , 2021, 22, 97.	0.5	26
26	Decellularized Cryopreserved Allografts as Off-the-Shelf Allogeneic Alternative for Heart Valve Replacement: In Vitro Assessment Before Clinical Translation. <i>Journal of Cardiovascular Translational Research</i> , 2017, 10, 93-103.	1.1	25
27	Decellularized aortic conduits: could their cryopreservation affect post-implantation outcomes? A morpho-functional study on porcine homografts. <i>Heart and Vessels</i> , 2016, 31, 1862-1873.	0.5	24
28	The Rapidly Evolving Concept of Whole Heart Engineering. <i>Stem Cells International</i> , 2017, 2017, 1-18.	1.2	19
29	The Biocompatibility Challenges in the Total Artificial Heart Evolution. <i>Annual Review of Biomedical Engineering</i> , 2019, 21, 85-110.	5.7	17
30	Fibrosis in tissue engineering and regenerative medicine: treat or trigger?. <i>Advanced Drug Delivery Reviews</i> , 2019, 146, 17-36.	6.6	16
31	Antibodies against Angiotensin II Type 1 and Endothelin 1 Type A Receptors in Cardiovascular Pathologies. <i>International Journal of Molecular Sciences</i> , 2022, 23, 927.	1.8	16
32	Are FDA and CE sacrificing safety for a faster commercialization of xenogeneic tissue devices? Unavoidable need for legislation in decellularized tissue manufacturing. <i>Tissue Antigens</i> , 2014, 83, 193-194.	1.0	14
33	RegenHeart: A Time-Effective, Low-Concentration, Detergent-Based Method Aiming for Conservative Decellularization of the Whole Heart Organ. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 5493-5506.	2.6	13
34	The Vietnamese pig as a translational animal model to evaluate tissue engineered heart valves: promising early experience. <i>International Journal of Artificial Organs</i> , 2017, 40, 142-149.	0.7	13
35	Hybrid membranes for the production of blood contacting surfaces: physicochemical, structural and biomechanical characterization. <i>Biomaterials Research</i> , 2021, 25, 26.	3.2	12
36	Native Bovine and Porcine Pericardia Respond to Load With Additive Recruitment of Collagen Fibers. <i>Artificial Organs</i> , 2018, 42, 540-548.	1.0	11

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37	Covalent functionalization of decellularized tissues accelerates endothelialization. <i>Bioactive Materials</i> , 2021, 6, 3851-3864.	8.6	10
38	The Light and Shadow of Senescence and Inflammation in Cardiovascular Pathology and Regenerative Medicine. <i>Mediators of Inflammation</i> , 2017, 2017, 1-13.	1.4	9
39	Bioengineering the Cardiac Conduction System: Advances in Cellular, Gene, and Tissue Engineering for Heart Rhythm Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 673477.	2.0	9
40	Bioengineered percutaneous heart valves for transcatheter aortic valve replacement: a comparative evaluation of decellularised bovine and porcine pericardia. <i>Materials Science and Engineering C</i> , 2021, 123, 111936.	3.8	8
41	Inherited and Acquired Rhythm Disturbances in Sick Sinus Syndrome, Brugada Syndrome, and Atrial Fibrillation: Lessons from Preclinical Modeling. <i>Cells</i> , 2021, 10, 3175.	1.8	8
42	Nanopatterned acellular valve conduits drive the commitment of blood-derived multipotent cells. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 5041-5055.	3.3	7
43	Cellular, molecular, genomic changes occurring in the heart under mechanical circulatory support. <i>Annals of Cardiothoracic Surgery</i> , 2014, 3, 496-504.	0.6	7
44	Biocompatibility Issues of Next Generation Decellularized Bioprosthetic Devices. <i>Conference Papers in Science</i> , 2014, 2014, 1-6.	0.3	4
45	Mechanical Circulatory Support and Stem Cell-Based Heart Treatment in Europe—2018 Clinical Update. <i>Artificial Organs</i> , 2018, 42, 871-878.	1.0	4
46	Toward the Effective Bioengineering of a Pathological Tissue for Cardiovascular Disease Modeling: Old Strategies and New Frontiers for Prevention, Diagnosis, and Therapy. <i>Frontiers in Cardiovascular Medicine</i> , 2020, 7, 591583.	1.1	3
47	Cutting-Edge Regenerative Medicine Technologies for the Treatment of Heart Valve Calcification. , 0, ,		2
48	Modeling Cardiac Congenital Diseases: From Mathematic Tools to Human Induced Pluripotent Stem Cells. <i>Conference Papers in Science</i> , 2014, 2014, 1-9.	0.3	2
49	Xenotransplantation: The Way beyond and Ahead toward Clinical Application. <i>Journal of Immunology Research</i> , 2018, 2018, 1-2.	0.9	1
50	Correction to: New Generation Devices for Transcatheter Aortic Valve Implantation. , 2020, , C1-C1.		0