Jeremy L Herrmann

List of Publications by Year
in descending order

82 papers	2,043 citations	201674 27 h-index	254184 43 g-index
82 all docs	82 docs citations	82 times ranked	3082 citing authors

#	Article	IF	Citations
1	PRECONDITIONING MESENCHYMAL STEM CELLS WITH TRANSFORMING GROWTH FACTOR-ALPHA IMPROVES MESENCHYMAL STEM CELL-MEDIATED CARDIOPROTECTION. Shock, 2010, 33, 24-30.	2.1	141
2	VEGF is critical for stem cell-mediated cardioprotection and a crucial paracrine factor for defining the age threshold in adult and neonatal stem cell function. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H2308-H2314.	3.2	136
3	Estrogen receptor Î² mediates increased activation of PI3K/Akt signaling and improved myocardial function in female hearts following acute ischemia. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 296, R972-R978.	1.8	135
4	Mesenchymal stem cells enhance the viability and proliferation of human fetal intestinal epithelial cells following hypoxic injury via paracrine mechanisms. Surgery, 2009, 146, 190-197.	1.9	76
5	Signaling via GPR30 protects the myocardium from ischemia/reperfusion injury. Surgery, 2010, 148, 436-443.	1.9	75
6	High glucose concentration in cell culture medium does not acutely affect human mesenchymal stem cell growth factor production or proliferation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2009, 296, R1735-R1743.	1.8	74
7	Mesenchymal stem cells attenuate myocardial functional depression and reduce systemic and myocardial inflammation during endotoxemia. Surgery, 2010, 148, 444-452.	1.9	69
8	Proinflammatory Cytokine Effects on Mesenchymal Stem Cell Therapy for the Ischemic Heart. Annals of Thoracic Surgery, 2009, 88, 1036-1043.	1.3	62
9	Testosterone-Down-Regulated Akt Pathway During Cardiac Ischemia/Reperfusion: A Mechanism Involving BAD, Bcl-2 and FOXO3a. Journal of Surgical Research, 2010, 164, e1-e11.	1.6	59
10	STEM CELL MECHANISMS AND PARACRINE EFFECTS. Shock, 2007, 28, 375-383.	2.1	56
11	Animal Models of Myocardial and Vascular Injury. Journal of Surgical Research, 2010, 162, 239-249.	1.6	56
12	TNF RECEPTOR 2, NOT TNF RECEPTOR 1, ENHANCES MESENCHYMAL STEM CELL-MEDIATED CARDIAC PROTECTION FOLLOWING ACUTE ISCHEMIA. Shock, 2010, 33, 602-607.	2.1	54
13	Intravenous Infusion of Mesenchymal Stem Cells Is Associated With Improved Myocardial Function During Endotoxemia. Shock, 2011, 36, 235-241.	2.1	50
14	TLR4 Inhibits Mesenchymal Stem Cell (MSC) STAT3 Activation and Thereby Exerts Deleterious Effects on MSCâ€"Mediated Cardioprotection. PLoS ONE, 2010, 5, e14206.	2.5	48
15	Pretreating mesenchymal stem cells with interleukin-1Î² and transforming growth factor-Î² synergistically increases vascular endothelial growth factor production and improves mesenchymal stem cellâ€"mediated myocardial protection after acute ischemia. Surgery, 2012, 151, 353-363.	1.9	47
16	Interleukin-10 protects the ischemic heart from reperfusion injury via the STAT3 pathway. Surgery, 2011, 150, 231-239.	1.9	42
17	Intracoronary Mesenchymal Stem Cells Promote Postischemic Myocardial Functional Recovery, Decrease Inflammation, and Reduce Apoptosis via a Signal Transducer and Activator of Transcription 3 Mechanism. Journal of the American College of Surgeons, 2011, 213, 253-260.	0.5	42
18	Cell-Based Therapy for Ischemic Heart Disease: A Clinical Update. Annals of Thoracic Surgery, 2009, 88, 1714-1722.	1.3	39

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19	Toll-like receptor 2 mediates mesenchymal stem cell-associated myocardial recovery and VEGF production following acute ischemia-reperfusion injury. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H1529-H1536.	3.2	39
20	IL-6 and TGF-Î± Costimulate Mesenchymal Stem Cell Vascular Endothelial Growth Factor Production by ERK-, JNK-, and PI3K-Mediated Mechanisms. Shock, 2011, 35, 512-516.	2.1	37
21	Stem Cells in Sepsis. Annals of Surgery, 2009, 250, 19-27.	4.2	36
22	The Phosphoinositide-3 Kinase Survival Signaling Mechanism in Sepsis. Shock, 2010, 34, 442-449.	2.1	36
23	Gender Dimorphisms in Progenitor and Stem Cell Function in Cardiovascular Disease. Journal of Cardiovascular Translational Research, 2010, 3, 103-113.	2.4	35
24	Both endogenous and exogenous testosterone decrease myocardial STAT3 activation and SOCS3 expression after acute ischemia and reperfusion. Surgery, 2009, 146, 138-144.	1.9	34
25	MEK, p38, and PI-3K mediate cross talk between EGFR and TNFR in enhancing hepatocyte growth factor production from human mesenchymal stem cells. American Journal of Physiology - Cell Physiology, 2009, 297, C1284-C1293.	4.6	33
26	Acute postischemic treatment with estrogen receptor-Î± agonist or estrogen receptor-Î² agonist improves myocardial recovery. Surgery, 2009, 146, 145-154.	1.9	33
27	Optimizing Stem Cell Function for the Treatment of Ischemic Heart Disease. Journal of Surgical Research, 2011, 166, 138-145.	1.6	29
28	The Immunomodulatory Properties of Mesenchymal Stem Cells: Implications for Surgical Disease. Journal of Surgical Research, 2011, 167, 78-86.	1.6	27
29	MEK mediates the novel cross talk between TNFR2 and TGF-EGFR in enhancing vascular endothelial growth factor (VEGF) secretion from human mesenchymal stem cells. Surgery, 2009, 146, 198-205.	1.9	25
30	Exogenous high-mobility group box 1 improves myocardial recovery after acute global ischemia/reperfusion injury. Surgery, 2011, 149, 329-335.	1.9	25
31	Toll-Like Receptor Signaling Pathways and the Evidence Linking Toll-Like Receptor Signaling to Cardiac Ischemia/Reperfusion Injury. Shock, 2010, 34, 548-557.	2.1	24
32	Female stem cells are superior to males in preserving myocardial function following endotoxemia. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2011, 300, R1506-R1514.	1.8	24
33	Systemic pretreatment with dimethyloxalylglycine increases myocardial HIF-1Î± and VEGF production and improves functional recovery after acute ischemia/reperfusion. Surgery, 2011, 150, 278-283.	1.9	23
34	ABLATION OF TNF-Î± RECEPTORS INFLUENCES MESENCHYMAL STEM CELL-MEDIATED CARDIAC PROTECTION AGAINST ISCHEMIA. Shock, 2010, 34, 236-242.	2.1	21
35	Postischemic Infusion of 17-Î²-Estradiol Protects Myocardial Function and Viability. Journal of Surgical Research, 2008, 146, 218-224.	1.6	20
36	Postinfarct intramyocardial injection of mesenchymal stem cells pretreated with TGF-Î± improves acute myocardial function. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2010, 299, R371-R378.	1.8	20

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37	Bovine Jugular Vein Conduit: A Mid- to Long-Term Institutional Review. World Journal for Pediatric & Congenital Heart Surgery, 2018, 9, 489-495.	0.8	20
38	Improved outcomes in neonates who require venoarterial extracorporeal membrane oxygenation after the Norwood procedure. International Journal of Artificial Organs, 2020, 43, 180-188.	1.4	17
39	Transforming Growth Factor-Î± Enhances Stem Cell-Mediated Postischemic Myocardial Protection. Annals of Thoracic Surgery, 2011, 92, 1719-1725.	1.3	16
40	Role of Tumor Necrosis Factor Receptor 1 in Sex Differences of Stem Cell Mediated Cardioprotection. Annals of Thoracic Surgery, 2009, 87, 812-819.	1.3	15
41	The Superior Cavopulmonary Connection: History and Current Perspectives. World Journal for Pediatric & Congenital Heart Surgery, 2019, 10, 216-222.	0.8	13
42	Right ventricular TNF resistance during endotoxemia: the differential effects on ventricular function. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2007, 293, R1893-R1897.	1.8	12
43	Surgical Treatment of Atrial Fibrillation: The Time Is Now. Annals of Thoracic Surgery, 2010, 90, 2079-2086.	1.3	11
44	Congenital pulmonary lymphangiectasia and early mortality after stage 1 reconstruction procedures. Cardiology in the Young, 2017, 27, 1356-1360.	0.8	11
45	Bovine jugular vein conduit versus pulmonary homograft in the Ross operation. Cardiology in the Young, 2020, 30, 323-327.	0.8	10
46	Surgical Valvuloplasty Versus Balloon Dilation for Congenital Aortic Stenosis in Pediatric Patients. World Journal for Pediatric & Congenital Heart Surgery, 2020, 11, 444-451.	0.8	10
47	Seven decades of valved right ventricular outflow tract reconstruction: The most common heart procedure in children. Journal of Thoracic and Cardiovascular Surgery, 2020, 160, 1284-1288.	0.8	10
48	Time-Related Risk of Pulmonary Conduit Re-replacement: A Congenital Heart Surgeonsâ€™ Society Study. Annals of Thoracic Surgery, 2022, 113, 623-629.	1.3	10
49	Right Ventricular Outflow Tract Reconstruction in Infant Truncus Arteriosus: A 37-year Experience. Annals of Thoracic Surgery, 2020, 110, 630-637.	1.3	9
50	Proinflammatory Stem Cell Signaling in Cardiac Ischemia. Antioxidants and Redox Signaling, 2009, 11, 1883-1896.	5.4	8
51	A Comparison of Perioperative Management of Anomalous Aortic Origin of a Coronary Artery Between an Adult and Pediatric Cardiac Center. World Journal for Pediatric & Congenital Heart Surgery, 2016, 7, 721-726.	0.8	8
52	Rastelli Operation for D-Transposition of the Great Arteries, Ventricular Septal Defect, and Pulmonary Stenosis. World Journal for Pediatric & Congenital Heart Surgery, 2019, 10, 157-163.	0.8	7
53	Risk Factors for Reoperation After Arterial Switch Operation. World Journal for Pediatric & Congenital Heart Surgery, 2021, 12, 463-470.	0.8	7
54	Aneurysm formation after the Norwood procedure: Case report and review of the literature. Journal of Thoracic and Cardiovascular Surgery, 2014, 147, e55-e56.	0.8	6

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55	Pulmonary Autograft Mitral Valve Replacement (Ross II): Long-Term Follow-Up of a US Center. World Journal for Pediatric & Congenital Heart Surgery, 2018, 9, 645-650.	0.8	6
56	Intermediate Outcomes of Staged Tetralogy of Fallot Repair. World Journal for Pediatric & Congenital Heart Surgery, 2019, 10, 694-701.	0.8	6
57	Short- and intermediate-term results of balloon aortic valvuloplasty and surgical aortic valvotomy in neonates. Cardiology in the Young, 2020, 30, 489-492.	0.8	5
58	Bartonella endocarditis and diffuse crescentic proliferative glomerulonephritis with a full-house pattern of immune complex deposition. BMC Nephrology, 2022, 23, 181.	1.8	5
59	Remote Ischemic Preconditioning Reduces Myocardial Ischemia/Reperfusion Injury. Journal of Surgical Research, 2010, 159, 660-662.	1.6	4
60	Pretreatment with intracoronary mimosine improves postischemic myocardial functional recovery. Surgery, 2011, 150, 191-196.	1.9	4
61	TGF-Î± Equalizes Age Disparities in Stem Cell-Mediated Cardioprotection. Journal of Surgical Research, 2012, 176, 386-394.	1.6	4
62	Ross Procedure: How to Do It and How to Teach It. World Journal for Pediatric & Congenital Heart Surgery, 2019, 10, 624-627.	0.8	4
63	Surgical Gastrostomy in Pediatric Patients Undergoing Cardiac Surgery. Journal of Surgical Research, 2021, 259, 516-522.	1.6	4
64	Two Decades Using Stentless Porcine Aortic Root in Right Ventricular Outflow Tract Reconstruction. Annals of Thoracic Surgery, 2021, 112, 816-823.	1.3	4
65	Do Ameroid Constrictors Reliably Occlude Porcine Coronary Arteries?. Journal of Surgical Research, 2010, 161, 36-37.	1.6	3
66	How I found a mentor. Journal of Thoracic and Cardiovascular Surgery, 2017, 154, 1345-1347.	0.8	3
67	Simultaneous Apicoaortic Conduit Placement and Mitral Valve Replacement in an Adolescent with Porcelain Aorta, Aortic Stenosis, and Mitral Stenosis. Annals of Thoracic Surgery, 2009, 88, 998-1000.	1.3	2
68	Early conversion of classic Fontan conversion may decrease term morbidity: single centre outcomes. Cardiology in the Young, 2019, 29, 1045-1050.	0.8	2
69	Rescuing Macrophage Function Following Severe Thermal Injury. Journal of Surgical Research, 2009, 157, 158-160.	1.6	1
70	Transforming growth factor-alpha does not protect myocardium during acute ischemia/reperfusion. Surgery, 2011, 150, 339-346.	1.9	1
71	Warden Procedure in a 77-Year-Old Man. Annals of Thoracic Surgery, 2019, 108, e319-e321.	1.3	1
72	Heart Transplantation in Mustard Patients Bridged With Continuous Flow Systemic Ventricular Assist Device - A Case Report and Review of Literature. Frontiers in Cardiovascular Medicine, 2021, 8, 651496.	2.4	1

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73	Impact of Home Monitoring Program and Early Gastrostomy Tube on Interstage Outcomes following Stage 1 Norwood Palliation. Pediatric Cardiology, 0, , .	1.3	1
74	Comment on â€œSurgical Resident Performance on a Virtual Reality Simulator Correlates with Operating Room Performanceâ€. Journal of Surgical Research, 2009, 154, 177-178.	1.6	0
75	Case Report: Constrictive Pericarditis in a Patient With Isolated Anomalous Right Upper Pulmonary Venous Return. Frontiers in Cardiovascular Medicine, 2020, 7, 612014.	2.4	0
76	Commentary: Scimitar syndrome: Cutting through the details. JTCVS Techniques, 2020, 1, 81.	0.4	0
77	Commentary: Upsizing the Potential Performance of Pulmonary Valve Prostheses. Seminars in Thoracic and Cardiovascular Surgery, 2021, , .	0.6	0
78	Commentary: An opportunity for a new look at the Ross autograft. Journal of Thoracic and Cardiovascular Surgery, 2022, 164, 1740-1741.	0.8	0
79	Commentary: Another iteration of cell-based therapy for acute ischemia-reperfusion injury, this time in the spine. JTCVS Open, 2021, 7, 41-42.	0.5	0
80	Commentary: A Plentiful Patchwork for Patching Pulmonary Arteries. Seminars in Thoracic and Cardiovascular Surgery, 2021, 33, 467-468.	0.6	0
81	Commentary: Another Fly in the Ointment for the Treatment of HLHS?. Seminars in Thoracic and Cardiovascular Surgery, 2020, 32, 539-540.	0.6	0
82	Commentary: Systemic ventricular assist devices for the Fontan circulation: We can, but for whom and when?. Journal of Thoracic and Cardiovascular Surgery, 2021, , .	0.8	0