Muhammad Mohiuddin

List of Publications by Year
in descending order

68 papers	3,387 citations	236925 25 h-index	149698 56 g-index
71 all docs	71 docs citations	71 times ranked	2145 citing authors

#	Article	IF	Citations
1	Prolonged diabetes reversal after intraportal xenotransplantation of wild-type porcine islets in immunosuppressed nonhuman primates. Nature Medicine, 2006, 12, 301-303.	30.7	499
2	Infection by porcine endogenous retrovirus after islet xenotransplantation in SCID mice. Nature, 2000, 407, 90-94.	27.8	374
3	Chimeric 2C10R4 anti-CD40 antibody therapy is critical for long-term survival of GTKO.hCD46.hTBM pig-to-primate cardiac xenograft. Nature Communications, 2016, 7, 11138.	12.8	351
4	Genetically Modified Porcine-to-Human Cardiac Xenotransplantation. New England Journal of Medicine, 2022, 387, 35-44.	27.0	270
5	B-Cell Depletion Extends the Survival of GTKO.hCD46Tg Pig Heart Xenografts in Baboons for up to 8 Months. American Journal of Transplantation, 2012, 12, 763-771.	4.7	124
6	4D physiologically adaptable cardiac patch: A 4-month in vivo study for the treatment of myocardial infarction. Science Advances, 2020, 6, eabb5067.	10.3	118
7	3D bioprinting for cardiovascular regeneration and pharmacology. Advanced Drug Delivery Reviews, 2018, 132, 252-269.	13.7	115
8	Genetically engineered pigs and target-specific immunomodulation provide significant graft survival and hope for clinical cardiac xenotransplantation. Journal of Thoracic and Cardiovascular Surgery, 2014, 148, 1106-1114.	0.8	111
9	Transplantation for Type I Diabetes. Annals of Surgery, 2004, 240, 631-643.	4.2	92
10	Cutting Edge: Transplant Tolerance Induced by Anti-CD45RB Requires B Lymphocytes. Journal of Immunology, 2007, 178, 6028-6032.	0.8	90
11	Early graft failure of GalTKO pig organs in baboons is reduced by expression of a human complement pathwayâ€regulatory protein. Xenotransplantation, 2015, 22, 310-316.	2.8	79
12	Role of antiâ€CD40 antibodyâ€mediated costimulation blockade on nonâ€Gal antibody production and heterotopic cardiac xenograft survival in a GTKO.hCD46Tg pigâ€toâ€baboon model. Xenotransplantation, 2014, 21, 35-45.	2.8	77
13	Current status of pig heart xenotransplantation. International Journal of Surgery, 2015, 23, 234-239.	2.7	71
14	Report from IPITA-TTS Opinion Leaders Meeting on the Future of Î²-Cell Replacement. Transplantation, 2016, 100, S1-S44.	1.0	66
15	First update of the International Xenotransplantation Association consensus statement on conditions for undertaking clinical trials of porcine islet products in type 1 diabetesâ€"Executive summary. Xenotransplantation, 2016, 23, 3-13.	2.8	64
16	Progressive genetic modifications of porcine cardiac xenografts extend survival to 9 months. Xenotransplantation, 2022, 29, e12744.	2.8	64
17	Selection of Patients for Initial Clinical Trials of Solid Organ Xenotransplantation. Transplantation, 2017, 101, 1551-1558.	1.0	59
18	Regulation of Clinical Xenotransplantationâ€"Time for a Reappraisal. Transplantation, 2017, 101, 1766-1769.	1.0	57

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19	The growth of xenotransplanted hearts can be reduced with growth hormone receptor knockout pig donors. Journal of Thoracic and Cardiovascular Surgery, 2023, 165, e69-e81.	0.8	53
20	Cardiac xenografts show reduced survival in the absence of transgenic human thrombomodulin expression in donor pigs. Xenotransplantation, 2019, 26, e12465.	2.8	43
21	Antibody-mediated accommodation of heart grafts expressing an incompatible carbohydrate antigen. Transplantation, 2003, 75, 258-262.	1.0	42
22	Characterization and expansion of baboon CD4⁺CD25⁺ Treg cells for potential use in a nonâ€human primate xenotransplantation model. Xenotransplantation, 2007, 14, 298-308.	2.8	39
23	Regulatory T cells enhance mesenchymal stem cell survival andÂproliferation following autologous cotransplantation in ischemic myocardium. Journal of Thoracic and Cardiovascular Surgery, 2014, 148, 1131-1137.	0.8	28
24	Rapamycin Promotes the Enrichment of CD4+CD25hiFoxP3+ T Regulatory Cells From NaÃ¯ve CD4+ T Cells of Baboon That Suppress Antiporcine Xenogenic Response In Vitro. Transplantation Proceedings, 2009, 41, 418-421.	0.6	27
25	Tolerance induction to a mammalian blood groupâ€"like carbohydrate antigen by syngeneic lymphocytes expressing the antigen, II: tolerance induction on memory B cells. Blood, 2003, 102, 229-236.	1.4	26
26	Mouse-heart grafts expressing an incompatible carbohydrate antigen. II. Transition from accommodation to tolerance. Transplantation, 2004, 77, 366-373.	1.0	25
27	Circulating cell-free DNA as a biomarker of tissue injury: Assessment in a cardiac xenotransplantation model. Journal of Heart and Lung Transplantation, 2018, 37, 967-975.	0.6	25
28	Exâ€vivo expanded baboon CD4⁺ CD25^{Hi} Treg cells suppress baboon antiâ€pig T and B cell immune response. Xenotransplantation, 2012, 19, 102-111.	2.8	21
29	Encouraging experience using multiâ€transgenic xenografts in a pigâ€toâ€baboon cardiac xenotransplantation model. Xenotransplantation, 2017, 24, e12330.	2.8	21
30	Recent progress and remaining hurdles toward clinical xenotransplantation. Xenotransplantation, 2021, 28, e12681.	2.8	21
31	Xenotransplantation: A New Era. Frontiers in Immunology, 0, 13, .	4.8	21
32	Blood Cardioplegia Induction, Perfusion Storage and Graft Dysfunction in Cardiac Xenotransplantation. Frontiers in Immunology, 2021, 12, 667093.	4.8	20
33	Left Ventricular Pressure Measurement by Telemetry Is an Effective Means to Evaluate Transplanted Heart Function in Experimental Heterotopic Cardiac Xenotransplantation. Transplantation Proceedings, 2010, 42, 2152-2155.	0.6	19
34	<scp>CD</scp>4+<scp>CD</scp>25^{Hi}FoxP3+ regulatory T cells in longâ€term cardiac xenotransplantation. Xenotransplantation, 2018, 25, e12379.	2.8	17
35	Early Experience With Preclinical Perioperative Cardiac Xenograft Dysfunction in a Single Program. Annals of Thoracic Surgery, 2020, 109, 1357-1361.	1.3	16
36	Heterotopic Porcine Cardiac Xenotransplantation in the Intra-Abdominal Position in a Non-Human Primate Model. Scientific Reports, 2020, 10, 10709.	3.3	15

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37	Clinical Xenotransplantation of Organs: Why Aren't We There Yet?. PLoS Medicine, 2007, 4, e75.	8.4	14
38	Surgical and Nonsurgical Complications of a Pig to Baboon Heterotopic Heart Transplantation Model. Transplantation Proceedings, 2010, 42, 2149-2151.	0.6	13
39	Regulatory barriers to xenotransplantation. Current Opinion in Organ Transplantation, 2019, 24, 522-526.	1.6	13
40	JOINT <scp>FDA</scp>â€<scp>IXA</scp> SYMPOSIUM, SEPTEMBER 20, 2017. Xenotransplantation, 2017, 24, e12365.	2.8	12
41	Development of tolerance to experimental cardiac allografts in utero. Annals of Thoracic Surgery, 1994, 57, 72-75.	1.3	11
42	Experiments in cardiac xenotransplantation. Journal of Thoracic and Cardiovascular Surgery, 1993, 106, 632-635.	0.8	10
43	Cardiac Xenotransplantation: Progress in Preclinical Models and Prospects for Clinical Translation. Transplant International, 2022, 35, 10171.	1.6	10
44	Fetal inoculation with donor cells in cardiac xenotransplantation. Annals of Thoracic Surgery, 1996, 62, 1360-1363.	1.3	9
45	T-reg Mediated Suppression of the Allograft Response in the Draining Lymph Node. Transplantation, 2006, 81, 1063-1066.	1.0	8
46	Histocompatibility differences and cardiac transplant tolerance produced by intrathymic pretreatment. Journal of Thoracic and Cardiovascular Surgery, 1994, 107, 1472-1475.	0.8	7
47	Xenotransplantation: A Step Closer to Clinical Reality?. Transplantation, 2019, 103, 453-454.	1.0	7
48	Long-term survival of cardiac xenografts in fully xenogeneic (mouse â†’ rat) bone marrow chimeras. Annals of Thoracic Surgery, 2001, 72, 740-745.	1.3	6
49	Recent advances in porcine cardiac xenotransplantation: from aortic valve replacement to heart transplantation. Expert Review of Cardiovascular Therapy, 2022, 20, 597-608.	1.5	6
50	T-cell receptor expression in C57BL/6 mice that reject or are rendered tolerant to bm1 cardiac grafts. Journal of Thoracic and Cardiovascular Surgery, 1996, 112, 310-313.	0.8	5
51	Consideration of appropriate clinical applications for cardiac xenotransplantation. Clinical Transplantation, 2018, 32, e13330.	1.6	4
52	Preclinical rationale and current pathways to support the first human clinical trials in cardiac xenotransplantation. Human Immunology, 2023, 84, 34-42.	2.4	4
53	Tolerance to experimental cardiac allografts produced by neonatal intrathymic injection of donor cells. Annals of Thoracic Surgery, 1994, 58, 1316-1318.	1.3	3
54	Durability of donor-specific and organ-specific heart transplant tolerance induced by intrathymic pretreatment with allogeneic spleen cells. Journal of Thoracic and Cardiovascular Surgery, 1996, 111, 429-431.	0.8	3

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55	Intra-Abdominal Heterotopic Cardiac Xenotransplantation: Pearls and Pitfalls. Frontiers in Cardiovascular Medicine, 2019, 6, 95.	2.4	3
56	EFFECTS OF VESNARINONE, A NOVEL ORALLY ACTIVE INOTROPIC AGENT WITH AN IMMUNOSUPPRESSIVE ACTION, ON EXPERIMENTAL CARDIAC TRANSPLANTATION IN RATS. Transplantation, 1996, 62, 1540-1543.	1.0	3
57	An intrinsic link to an extrinsic cause of cardiac xenograft growth after xenotransplantation. Xenotransplantation, 2022, , e12724.	2.8	3
58	Surgical techniques for aortic valve xenotransplantation. Journal of Cardiothoracic Surgery, 2021, 16, 358.	1.1	3
59	Tolerance to Cardiac Allografts Requires a Time Lag between Intrathymic Treatment and Transplantation. Journal of Surgical Research, 1996, 63, 83-85.	1.6	2
60	Multilineage bone marrow chimerism produces cellular and humoral tolerance in a mouse-to-rat cardiac xenograft. Transplantation Proceedings, 2000, 32, 1029-1030.	0.6	2
61	Suppressor cells and intrathymic inoculation of donor alloantigens in cardiac transplantation. Annals of Thoracic Surgery, 1995, 60, 1683-1685.	1.3	1
62	Improved experimental cardiac xenograft survival with cyclophosphamide and intrathymic donor cells. Xenotransplantation, 1996, 3, 260-263.	2.8	1
63	Induction of tolerance to an experimental cardiac allograft through intrathymic inoculation of class II major histocompatibility complex disparate antigens. Journal of Thoracic and Cardiovascular Surgery, 1996, 112, 1315-1318.	0.8	1
64	Development of tolerance to experimental cardiac allografts in utero: updated in 2001. Annals of Thoracic Surgery, 2001, 71, 755-756.	1.3	1
65	Xenotransplantation Is the Future of Pediatric Cardiac Surgeryâ€¦. Annals of Thoracic Surgery, 2021, , .	1.3	1
66	Induction of tolerance to an â€œuntolerizableâ€•strain by double-strain intrathymic inoculation in experimental rat cardiac transplantation. Transplantation Proceedings, 1999, 31, 838-839.	0.6	0
67	Mixed xenogeneic hematopoietic chimerism (mouse â†’ rat) induces tolerance to donor heart grafts. Journal of the American College of Surgeons, 2000, 191, S60-S61.	0.5	0
68	Evidence for a critical T cell - B cell interaction in tolerance induced by anti-CD45RB. Journal of the American College of Surgeons, 2005, 201, S92.	0.5	0