

Bernhard J Hering

List of Publications by Year in descending order

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110
papers

9,808
citations

57631

44
h-index

35952

97
g-index

112
all docs

112
docs citations

112
times ranked

5795
citing authors

#	ARTICLE	IF	CITATIONS
1	International Trial of the Edmonton Protocol for Islet Transplantation. <i>New England Journal of Medicine</i> , 2006, 355, 1318-1330.	13.9	1,754
2	Improvement in Outcomes of Clinical Islet Transplantation: 1999â€“2010. <i>Diabetes Care</i> , 2012, 35, 1436-1445.	4.3	665
3	Islet isolation assessment in man and large animals. <i>Acta Diabetologica Latina</i> , 1990, 27, 185-195.	0.2	554
4	Single-Donor, Marginal-Dose Islet Transplantation in Patients With Type 1 Diabetes. <i>JAMA - Journal of the American Medical Association</i> , 2005, 293, 830.	3.8	533
5	Prolonged diabetes reversal after intraportal xenotransplantation of wild-type porcine islets in immunosuppressed nonhuman primates. <i>Nature Medicine</i> , 2006, 12, 301-303.	15.2	499
6	Phase 3 Trial of Transplantation of Human Islets in Type 1 Diabetes Complicated by Severe Hypoglycemia. <i>Diabetes Care</i> , 2016, 39, 1230-1240.	4.3	498
7	Infection by porcine endogenous retrovirus after islet xenotransplantation in SCID mice. <i>Nature</i> , 2000, 407, 90-94.	13.7	374
8	Transplantation of Cultured Islets from Two-Layer Preserved Pancreases in Type 1 Diabetes with Anti-CD3 Antibody. <i>American Journal of Transplantation</i> , 2004, 4, 390-401.	2.6	333
9	Evidence-Informed Clinical Practice Recommendations for Treatment of Type 1 Diabetes Complicated by Problematic Hypoglycemia. <i>Diabetes Care</i> , 2015, 38, 1016-1029.	4.3	192
10	Intracellular Stress Signaling Pathways Activated During Human Islet Preparation and Following Acute Cytokine Exposure. <i>Diabetes</i> , 2004, 53, 2815-2823.	0.3	170
11	The Role of Total Pancreatectomy and Islet Autotransplantation for Chronic Pancreatitis. <i>Surgical Clinics of North America</i> , 2007, 87, 1477-1501.	0.5	169
12	Islet Autotransplant Outcomes After Total Pancreatectomy: A Contrast to Islet Allograft Outcomes. <i>Transplantation</i> , 2008, 86, 1799-1802.	0.5	167
13	Inhibition of DYRK1A and GSK3B induces human Î²-cell proliferation. <i>Nature Communications</i> , 2015, 6, 8372.	5.8	164
14	Edmonton's islet success has indeed been replicated elsewhere. <i>Lancet, The</i> , 2003, 362, 1242.	6.3	158
15	National Institutes of Healthâ€“Sponsored Clinical Islet Transplantation Consortium Phase 3 Trial: Manufacture of a Complex Cellular Product at Eight Processing Facilities. <i>Diabetes</i> , 2016, 65, 3418-3428.	0.3	143
16	Factors Predicting Outcomes After a Total Pancreatectomy and Islet Autotransplantation Lessons Learned From Over 500 Cases. <i>Annals of Surgery</i> , 2015, 262, 610-622.	2.1	141
17	Reversal of diabetes in non-immunosuppressed rhesus macaques by intraportal porcine islet xenografts precedes acute cellular rejection. <i>Xenotransplantation</i> , 2004, 11, 396-407.	1.6	129
18	Current status of xenotransplantation and prospects for clinical application. <i>Xenotransplantation</i> , 2009, 16, 263-280.	1.6	126

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19	Effect of Donor Age on Function of Isolated Human Islets. <i>Diabetes</i> , 2006, 55, 1361-1368.	0.3	114
20	SIGNIFICANT PROGRESS IN PORCINE ISLET MASS ISOLATION UTILIZING LIBERASE HI FOR ENZYMATIC LOW-TEMPERATURE PANCREAS DIGESTION1. <i>Transplantation</i> , 1999, 68, 355-361.	0.5	111
21	A New Enzyme Mixture to Increase the Yield and Transplant Rate of Autologous and Allogeneic Human Islet Products. <i>Transplantation</i> , 2012, 93, 693-702.	0.5	110
22	Executive summary. <i>Xenotransplantation</i> , 2009, 16, 196-202.	1.6	94
23	Embryonic pig pancreatic tissue for the treatment of diabetes in a nonhuman primate model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 8659-8664.	3.3	89
24	Improved Health-Related Quality of Life in a Phase 3 Islet Transplantation Trial in Type 1 Diabetes Complicated by Severe Hypoglycemia. <i>Diabetes Care</i> , 2018, 41, 1001-1008.	4.3	89
25	Impact of two-layer pancreas preservation on islet isolation and transplantation1. <i>Transplantation</i> , 2002, 74, 1813-1816.	0.5	88
26	Assessment of Intracellular Insulin Content during All Steps of Human Islet Isolation Procedure. <i>Cell Transplantation</i> , 1998, 7, 489-495.	1.2	85
27	Activation and expression of ERK, JNK, and p38 MAP-kinases in isolated islets of Langerhans: implications for cultured islet survival. <i>FEBS Letters</i> , 1999, 455, 203-208.	1.3	79
28	Improvement in Islet Yield from Obese Donors for Human Islet Transplants. <i>Transplantation</i> , 2004, 78, 880-885.	0.5	79
29	Pig Pancreas Anatomy: Implications for Pancreas Procurement, Preservation, and Islet Isolation. <i>Transplantation</i> , 2008, 86, 1503-1510.	0.5	79
30	Pig-to-nonhuman primate islet xenotransplantation. <i>Transplant Immunology</i> , 2009, 21, 81-86.	0.6	78
31	Successful Human Islet Isolation and Transplantation Indicating the Importance of Class 1 Collagenase and Collagen Degradation Activity Assay. <i>Transplantation</i> , 2010, 89, 954-961.	0.5	78
32	Report of the Key Opinion Leaders Meeting on Stem Cell-derived Beta Cells. <i>Transplantation</i> , 2018, 102, 1223-1229.	0.5	72
33	Species incompatibilities in the pig-to-macaque islet xenotransplant model affect transplant outcome: a comparison with allotransplantation. <i>Xenotransplantation</i> , 2011, 18, 328-342.	1.6	69
34	Islet allograft survival in nonhuman primates immunosuppressed with basiliximab, RAD, and FTY7201. <i>Transplantation</i> , 2004, 77, 827-835.	0.5	68
35	Report from IPITA-TTS Opinion Leaders Meeting on the Future of β -Cell Replacement. <i>Transplantation</i> , 2016, 100, S1-S44.	0.5	66
36	First update of the International Xenotransplantation Association consensus statement on conditions for undertaking clinical trials of porcine islet products in type 1 diabetes—Executive summary. <i>Xenotransplantation</i> , 2016, 23, 3-13.	1.6	64

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37	Islet transplantation in the subcutaneous space achieves long-term euglycaemia in preclinical models of type 1 diabetes. <i>Nature Metabolism</i> , 2020, 2, 1013-1020.	5.1	64
38	Phase 3 trial of human islet-after-kidney transplantation in type 1 diabetes. <i>American Journal of Transplantation</i> , 2021, 21, 1477-1492.	2.6	64
39	Assessment of intracellular insulin content during all steps of human islet isolation procedure. <i>Cell Transplantation</i> , 1998, 7, 489-495.	1.2	62
40	Regulation of Clinical Xenotransplantation—Time for a Reappraisal. <i>Transplantation</i> , 2017, 101, 1766-1769.	0.5	57
41	Islet Oxygen Consumption Rate (OCR) Dose Predicts Insulin Independence in Clinical Islet Autotransplantation. <i>PLoS ONE</i> , 2015, 10, e0134428.	1.1	55
42	Achieving and Maintaining Insulin Independence in Human Islet Transplant Recipients. <i>Transplantation</i> , 2005, 79, 1296-1297.	0.5	52
43	Islet Autotransplantation to Preserve Beta Cell Mass in Selected Patients With Chronic Pancreatitis and Diabetes Mellitus Undergoing Total Pancreatectomy. <i>Pancreas</i> , 2013, 42, 317-321.	0.5	52
44	Prediction of Pancreatic Tissue Densities by an Analytical Test Gradient System Before Purification Maximizes Human Islet Recovery for Islet Autotransplantation/Allotransplantation. <i>Transplantation</i> , 2011, 91, 508-514.	0.5	47
45	Similar Islet Function in Islet Allotransplant and Autotransplant Recipients, Despite Lower Islet Mass in Autotransplants. <i>Transplantation</i> , 2011, 91, 367-372.	0.5	45
46	Prediction of Marginal Mass Required for Successful Islet Transplantation. <i>Journal of Investigative Surgery</i> , 2010, 23, 28-34.	0.6	44
47	Long-term tolerance of islet allografts in nonhuman primates induced by apoptotic donor leukocytes. <i>Nature Communications</i> , 2019, 10, 3495.	5.8	43
48	Repurification: Rescue Rather Than Routine Remedy. <i>American Journal of Transplantation</i> , 2005, 5, 1-2.	2.6	41
49	Effect of short-term culture on functional and stress-related parameters in isolated human islets. <i>Transplant International</i> , 2009, 22, 207-216.	0.8	40
50	IMMUNOTHERAPY WITH NONDEPLETING ANTI-CD4 MONOCLONAL ANTIBODIES BUT NOT CD28 ANTAGONISTS PROTECTS ISLET GRAFT IN SPONTANEOUSLY DIABETIC NOD MICE FROM AUTOIMMUNE DESTRUCTION AND ALLOGENEIC AND XENOGENEIC GRAFT REJECTION ¹ . <i>Transplantation</i> , 2001, 71, 1656-1665.	0.5	39
51	Insulin Degradation by Acinar Cell Proteases Creates a Dysfunctional Environment for Human Islets Before/After Transplantation: Benefits of α -1 Antitrypsin Treatment. <i>Transplantation</i> , 2011, 92, 1222-1230.	0.5	37
52	A substantial level of donor hematopoietic chimerism is required to protect donor-specific islet grafts in diabetic nod mice. <i>Transplantation</i> , 2003, 75, 909-915.	0.5	34
53	Executive Summary of IPITA-TTS Opinion Leaders Report on the Future of β -Cell Replacement. <i>Transplantation</i> , 2016, 100, e25-e31.	0.5	32
54	Post-transplant upregulation of chemokine messenger RNA in non-human primate recipients of intraportal pig islet xenografts. <i>Xenotransplantation</i> , 2005, 12, 293-302.	1.6	31

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55	Transient B-Cell Depletion Combined With Apoptotic Donor Splenocytes Induces Xeno-Specific T- and B-Cell Tolerance to Islet Xenografts. <i>Diabetes</i> , 2013, 62, 3143-3150.	0.3	31
56	Factors Affecting Transplant Outcomes in Diabetic Nude Mice Receiving Human, Porcine, and Nonhuman Primate Islets. <i>Transplantation</i> , 2013, 95, 1439-1447.	0.5	31
57	Translational impact of NIH-funded nonhuman primate research in transplantation. <i>Science Translational Medicine</i> , 2019, 11, .	5.8	27
58	Î²-Cell replacement therapy (pancreas and islet transplantation) for treatment of diabetes mellitus: an integrated approach. <i>Endocrinology and Metabolism Clinics of North America</i> , 2004, 33, 135-148.	1.2	25
59	Supplements in Human Islet Culture: Human Serum Albumin is Inferior to Fetal Bovine Serum. <i>Cell Transplantation</i> , 2012, 21, 2805-2814.	1.2	25
60	A novel alternative placement site and technique for totally implantable vascular access ports in non-human primates. <i>Journal of Medical Primatology</i> , 2009, 38, 204-212.	0.3	24
61	Transforming growth factor beta 1 (TGF-Î²1) and rapamycin synergize to effectively suppress human T cell responses via upregulation of FoxP3+ Tregs. <i>Transplant Immunology</i> , 2010, 23, 28-33.	0.6	24
62	First update of the International Xenotransplantation Association consensus statement on conditions for undertaking clinical trials of porcine islet products in type 1 diabetes - Chapter 1: update on national regulatory frameworks pertinent to clinical is. <i>Xenotransplantation</i> , 2016, 23, 14-24.	1.6	24
63	Binding of the Fibronectin-Mimetic Peptide, PR_b, to Î±5Î²1 on Pig Islet Cells Increases Fibronectin Production and Facilitates Internalization of PR_b Functionalized Liposomes. <i>Langmuir</i> , 2010, 26, 14081-14088.	1.6	23
64	Microbiological safety of porcine islets: comparison with source pig. <i>Xenotransplantation</i> , 2011, 18, 88-93.	1.6	23
65	What strain of pig should be used?. <i>Xenotransplantation</i> , 2008, 15, 83-86.	1.6	22
66	Refining the high-dose streptozotocin-induced diabetic non-human primate model: an evaluation of risk factors and outcomes. <i>Experimental Biology and Medicine</i> , 2011, 236, 1218-1230.	1.1	21
67	First update of the International Xenotransplantation Association consensus statement on conditions for undertaking clinical trials of porcine islet products in type 1 diabetesâ€”Chapter 6: patient selection for pilot clinical trials of islet xenotransplantation. <i>Xenotransplantation</i> , 2016, 23, 60-76.	1.6	21
68	First update of the International Xenotransplantation Association consensus statement on conditions for undertaking clinical trials of porcine islet products in type 1 diabetes â€” Chapter 3: Porcine islet product manufacturing and release testing criteria. <i>Xenotransplantation</i> , 2016, 23, 38-45.	1.6	20
69	Identifying Effective Enzyme Activity Targets for Recombinant Class I and Class II Collagenase for Successful Human Islet Isolation. <i>Transplantation Direct</i> , 2016, 2, e54.	0.8	20
70	In vitro characterization of neonatal, juvenile, and adult porcine islet oxygen demand, Î²-cell function, and transcriptomes. <i>Xenotransplantation</i> , 2018, 25, e12432.	1.6	20
71	Quadrupole Magnetic Sorting of Porcine Islets of Langerhans. <i>Tissue Engineering - Part C: Methods</i> , 2009, 15, 147-156.	1.1	19
72	Differential Role of B Cells and IL-17 Versus IFN-Î³ During Early and Late Rejection of Pig Islet Xenografts in Mice. <i>Transplantation</i> , 2017, 101, 1801-1810.	0.5	17

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73	Preliminary Studies of the Impact of CXCL12 on the Foreign Body Reaction to Pancreatic Islets Microencapsulated in Alginate in Nonhuman Primates. <i>Transplantation Direct</i> , 2019, 5, e447.	0.8	17
74	Refinement of vascular access port placement in nonhuman primates: complication rates and outcomes. <i>Comparative Medicine</i> , 2010, 60, 479-85.	0.4	16
75	Sustained benefits of islet transplants for T1DM. <i>Nature Reviews Endocrinology</i> , 2015, 11, 572-574.	4.3	15
76	Mycophenolate Mofetil in Islet Cell Transplant: Variable Pharmacokinetics but Good Correlation Between Total and Unbound Concentrations. <i>Journal of Clinical Pharmacology</i> , 2005, 45, 901-909.	1.0	14
77	Comparison of Tolerated and Rejected Islet Grafts: A Gene Expression Study. <i>Cell Transplantation</i> , 2004, 13, 619-630.	1.2	13
78	Islet Cells Replacement Therapy. <i>Clinics in Laboratory Medicine</i> , 2005, 25, 541-556.	0.7	13
79	Comparisons of phenotype and immunomodulatory capacity among rhesus bone marrow-derived mesenchymal stem/stromal cells, multipotent adult progenitor cells, and dermal fibroblasts. <i>Journal of Medical Primatology</i> , 2014, 43, 231-241.	0.3	13
80	FoxP3+, and not CD25+, T cells increase post-transplant in islet allotransplant recipients following anti-CD25+ rATG immunotherapy. <i>Cellular Immunology</i> , 2012, 274, 83-88.	1.4	12
81	JOINT FDA-IXA SYMPOSIUM, SEPTEMBER 20, 2017. <i>Xenotransplantation</i> , 2017, 24, e12365.	1.6	12
82	High-mannose type N-glycans with core fucosylation and complex-type N-glycans with terminal neuraminic acid residues are unique to porcine islets. <i>PLoS ONE</i> , 2020, 15, e0241249.	1.1	12
83	Temperature profiles of different cooling methods in porcine pancreas procurement. <i>Xenotransplantation</i> , 2014, 21, 574-581.	1.6	11
84	Relative reductions in soluble CD30 levels post-transplant predict acute graft function in islet allograft recipients receiving three different immunosuppression protocols. <i>Transplant Immunology</i> , 2010, 23, 209-214.	0.6	10
85	Transplant research in nonhuman primates to evaluate clinically relevant immune strategies in organ transplantation. <i>Transplantation Reviews</i> , 2019, 33, 115-129.	1.2	10
86	HLA-G1+ Expression in GGTA1KO Pigs Suppresses Human and Monkey Anti-Pig T, B and NK Cell Responses. <i>Frontiers in Immunology</i> , 2021, 12, 730545.	2.2	10
87	Clinically available immunosuppression averts rejection but not systemic inflammation after porcine islet xenotransplant in cynomolgus macaques. <i>American Journal of Transplantation</i> , 2022, 22, 745-760.	2.6	9
88	Rejection of xenogeneic porcine islets in humanized mice is characterized by graft-infiltrating Th17 cells and activated B cells. <i>American Journal of Transplantation</i> , 2020, 20, 1538-1550.	2.6	8
89	Metabolic measures before surgery and long-term diabetes outcomes in recipients of total pancreatectomy and islet autotransplantation. <i>American Journal of Transplantation</i> , 2021, 21, 3411-3420.	2.6	8
90	Serum cytokine profiles in healthy nonhuman primates are blunted by sedation and demonstrate sexual dimorphism as detected by a validated multiplex immunoassay. <i>Scientific Reports</i> , 2021, 11, 2340.	1.6	7

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91	Regulation of the JNK3 Signaling Pathway during Islet Isolation: JNK3 and c-fos as New Markers of Islet Quality for Transplantation. PLoS ONE, 2014, 9, e99796.	1.1	7
92	Long-Term Hepatic Vascular Access in the Nonhuman Primate for Recurrent Portal Vein Infusion. Journal of Investigative Surgery, 2011, 24, 59-66.	0.6	6
93	Combination of pancreas volume and HbA1c level predicts islet yield in patients undergoing total pancreatectomy and islet autotransplantation. Clinical Transplantation, 2020, 34, e14008.	0.8	6
94	Performance of modified IgIs criteria to evaluate islet autograft function after total pancreatectomy with islet autotransplantation – a retrospective study. Transplant International, 2021, 34, 87-96.	0.8	6
95	Islet Isolation from Pancreatitis Pancreas for Islet Autotransplantation. , 2015, , 1199-1227.		5
96	Profiling natural serum antibodies of non-human primates with a carbohydrate antigen microarray. Xenotransplantation, 2020, 27, e12567.	1.6	4
97	Insulin auto-antigenicity in type 1 diabetes (Reply). Nature, 2005, 438, E5-E6.	13.7	3
98	Islet xenotransplantation - concepts, challenges, and chances. Xenotransplantation, 2007, 14, 369-369.	1.6	3
99	Continuous Quadrupole Magnetic Separation of Islets during Digestion Improves Purified Porcine Islet Viability. Journal of Diabetes Research, 2016, 2016, 1-10.	1.0	3
100	Carbohydrate antigen microarray analysis of serum IgG and IgM antibodies before and after adult porcine islet xenotransplantation in cynomolgus macaques. PLoS ONE, 2021, 16, e0253029.	1.1	3
101	Comment on Harlan. Islet Transplantation for Hypoglycemia Unawareness/Severe Hypoglycemia: Caveat Emptor. Diabetes Care 2016;39:1072-1074. Diabetes Care, 2017, 40, e111-e112.	4.3	2
102	A nonhuman primate model of vertical sleeve gastrectomy facilitates mechanistic and translational research in human obesity. IScience, 2021, 24, 103421.	1.9	2
103	(1) Pre-clinical islet transplantation: immunobiology and immunointervention. Xenotransplantation, 2007, 14, 177-178.	1.6	1
104	The immunobiology of pig-to-nonhuman primate islet xenotransplantation: insights, innovation, and impact. Xenotransplantation, 2013, 20, 50-50.	1.6	1
105	Magnetic resonance imaging: a tool to monitor and optimize enzyme distribution during porcine pancreas distention for islet isolation. Xenotransplantation, 2014, 21, 473-479.	1.6	1
106	Epigenetic biomarkers indicate islet cell death in xenotransplantation. Xenotransplantation, 2020, 27, e12570.	1.6	1
107	Pancreas and Islet Cell Transplantation. , 2006, , 717-730.		1
108	Islet Transplantation: An Update. , 1996, 12, 137-150.		0

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109	Pancreas and Islet Cell Transplantation. , 2012, , 631-641.		0
110	Islet Isolation from Pancreatitis Pancreas for Islet Autotransplantation. , 2014, , 1-25.		0