

Anandwardhan A Hardikar

List of Publications by Year in descending order

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101
papers

3,927
citations

172207

29
h-index

133063

59
g-index

106
all docs

106
docs citations

106
times ranked

5181
citing authors

#	ARTICLE	IF	CITATIONS
1	Epithelial-to-Mesenchymal Transition Generates Proliferative Human Islet Precursor Cells. <i>Science</i> , 2004, 306, 2261-2264.	6.0	424
2	Mesenchymal stem cells: immunobiology and role in immunomodulation and tissue regeneration. <i>Cytotherapy</i> , 2009, 11, 377-391.	0.3	330
3	Expression of islet-specific microRNAs during human pancreatic development. <i>Gene Expression Patterns</i> , 2009, 9, 109-113.	0.3	244
4	Biomarkers in Diabetic Retinopathy. <i>Review of Diabetic Studies</i> , 2015, 12, 159-195.	0.5	198
5	Human pancreatic precursor cells secrete FGF2 to stimulate clustering into hormone-expressing islet-like cell aggregates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 7117-7122.	3.3	156
6	MicroRNA profiling of developing and regenerating pancreas reveal post-transcriptional regulation of neurogenin3. <i>Developmental Biology</i> , 2007, 311, 603-612.	0.9	150
7	The miR-30 family microRNAs confer epithelial phenotype to human pancreatic cells. <i>Islets</i> , 2009, 1, 137-147.	0.9	136
8	Diabetes, metabolic disease, and telomere length. <i>Lancet Diabetes and Endocrinology</i> , the, 2021, 9, 117-126.	5.5	98
9	Human bone marrow-derived mesenchymal cells differentiate and mature into endocrine pancreatic lineage in vivo. <i>Cytotherapy</i> , 2011, 13, 279-293.	0.3	90
10	Differential placental methylation and expression of VEGF, FLT- 1 and KDR genes in human term and preterm preeclampsia. <i>Clinical Epigenetics</i> , 2013, 5, 6.	1.8	87
11	New pancreas from old: microregulators of pancreas regeneration. <i>Trends in Endocrinology and Metabolism</i> , 2007, 18, 393-400.	3.1	84
12	Multigenerational Undernutrition Increases Susceptibility to Obesity and Diabetes that Is Not Reversed after Dietary Recuperation. <i>Cell Metabolism</i> , 2015, 22, 312-319.	7.2	83
13	Intrauterine low protein diet increases fetal beta-cell sensitivity to NO and IL-1 beta: the protective role of taurine. <i>Journal of Endocrinology</i> , 2001, 171, 299-308.	1.2	81
14	Functional Maturation of Fetal Porcine β^2 -Cells by Glucagon-Like Peptide 1 and Cholecystokinin. <i>Endocrinology</i> , 2002, 143, 3505-3514.	1.4	77
15	Growth modulation of fibroblasts by chitosan-polyvinyl pyrrolidone hydrogel: Implications for wound management?. <i>Journal of Biosciences</i> , 2000, 25, 25-30.	0.5	69
16	Differentiation of human umbilical cord blood-derived mononuclear cells to endocrine pancreatic lineage. <i>Differentiation</i> , 2009, 78, 232-240.	1.0	68
17	A comparative analysis of high-throughput platforms for validation of a circulating microRNA signature in diabetic retinopathy. <i>Scientific Reports</i> , 2015, 5, 10375.	1.6	64
18	Coxsackievirus B5 Infection Induces Dysregulation of microRNAs Predicted to Target Known Type 1 Diabetes Risk Genes in Human Pancreatic Islets. <i>Diabetes</i> , 2016, 65, 996-1003.	0.3	59

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19	Circulating microRNA Biomarkers of Diabetic Retinopathy. <i>Diabetes</i> , 2016, 65, 22-24.	0.3	52
20	Human Blood Vessel-Derived Endothelial Progenitors for Endothelialization of Small Diameter Vascular Prosthesis. <i>PLoS ONE</i> , 2009, 4, e7718.	1.1	50
21	Mesenchymal Stem Cells Derived from Bone Marrow of Diabetic Patients Portrait Unique Markers Influenced by the Diabetic Microenvironment. <i>Review of Diabetic Studies</i> , 2009, 6, 260-270.	0.5	48
22	Circulating microRNAs: Understanding the Limits for Quantitative Measurement by Real-Time PCR. <i>Journal of the American Heart Association</i> , 2014, 3, e000792.	1.6	48
23	Human fetal pancreatic insulin-producing cells proliferate in vitro. <i>Journal of Endocrinology</i> , 2009, 201, 27-36.	1.2	46
24	An Optimised Step-by-Step Protocol for Measuring Relative Telomere Length. <i>Methods and Protocols</i> , 2020, 3, 27.	0.9	40
25	Chitosan-Polyvinyl Pyrrolidone Hydrogels as Candidate for Islet Immunoisolation: In Vitro Biocompatibility Evaluation. <i>Cell Transplantation</i> , 2000, 9, 25-31.	1.2	39
26	Are Better Islet Cell Precursors Generated by Epithelial-to-Mesenchymal Transition?. <i>Cell Cycle</i> , 2005, 4, 380-382.	1.3	39
27	Shortened Leukocyte Telomere Length Is Associated With Glycemic Progression in Type 2 Diabetes: A Prospective and Mendelian Randomization Analysis. <i>Diabetes Care</i> , 2022, 45, 701-709.	4.3	37
28	c-Kit and stem cell factor regulate PANC-1 cell differentiation into insulin- and glucagon-producing cells. <i>Laboratory Investigation</i> , 2010, 90, 1373-1384.	1.7	34
29	Epithelial-to-mesenchymal transition in pancreatic islet β^2 cells. <i>Cell Cycle</i> , 2010, 9, 4077-4079.	1.3	31
30	Shortened Relative Leukocyte Telomere Length Is Associated With Prevalent and Incident Cardiovascular Complications in Type 2 Diabetes: Analysis From the Hong Kong Diabetes Register. <i>Diabetes Care</i> , 2020, 43, 2257-2265.	4.3	31
31	New sources of β^2 -cells for treating diabetes. <i>Journal of Endocrinology</i> , 2009, 202, 13-16.	1.2	30
32	Cdk4 Regulates Recruitment of Quiescent β^2 -Cells and Ductal Epithelial Progenitors to Reconstitute β^2 -Cell Mass. <i>PLoS ONE</i> , 2010, 5, e8653.	1.1	30
33	Improved post-cryopreservation recovery following encapsulation of islets in chitosan-alginate microcapsules. <i>Transplantation Proceedings</i> , 2000, 32, 824-825.	0.3	29
34	Modulating experimental diabetes by treatment with cytosolic extract from the regenerating pancreas. <i>Diabetes Research and Clinical Practice</i> , 1999, 46, 203-211.	1.1	27
35	Generating new pancreas from old. <i>Trends in Endocrinology and Metabolism</i> , 2004, 15, 198-203.	3.1	27
36	Hyperandrogenism and Metabolic Syndrome Are Associated With Changes in Serum-Derived microRNAs in Women With Polycystic Ovary Syndrome. <i>Frontiers in Medicine</i> , 2019, 6, 242.	1.2	27

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37	HUMAN UMBILICAL CORD BLOOD SERUM PROMOTES GROWTH, PROLIFERATION, AS WELL AS DIFFERENTIATION OF HUMAN BONE MARROW-DERIVED PROGENITOR CELLS. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 2006, 42, 283-6.	0.7	26
38	MicroRNAs as Prognostic Markers in Acute Coronary Syndrome Patients—A Systematic Review. <i>Cells</i> , 2019, 8, 1572.	1.8	25
39	Changes in dietary fiber intake in mice reveal associations between colonic mucin O-glycosylation and specific gut bacteria. <i>Gut Microbes</i> , 2020, 12, 1802209.	4.3	25
40	Role of NADPH Oxidase-4 in Human Endothelial Progenitor Cells. <i>Frontiers in Physiology</i> , 2017, 8, 150.	1.3	24
41	Placenta Stem/Stromal Cell-Derived Extracellular Vesicles for Potential Use in Lung Repair. <i>Proteomics</i> , 2019, 19, e1800166.	1.3	23
42	Endothelial cells in pancreatic islet development and function. <i>Islets</i> , 2009, 1, 2-9.	0.9	22
43	Reduced Expression of PDX-1 Is Associated With Decreased Beta Cell Function in Chronic Pancreatitis. <i>Pancreas</i> , 2010, 39, 856-862.	0.5	22
44	Effect of alginate encapsulation on the cellular transcriptome of human islets. <i>Biomaterials</i> , 2011, 32, 8416-8425.	5.7	22
45	A prevascularized tissue engineering chamber supports growth and function of islets and progenitor cells in diabetic mice. <i>Islets</i> , 2011, 3, 271-283.	0.9	22
46	Location, location, location: Beneficial effects of autologous fat transplantation. <i>Scientific Reports</i> , 2011, 1, 81.	1.6	22
47	Circulating non-coding RNAs as biomarkers of beta cell death in diabetes. <i>Pediatric Endocrinology Reviews</i> , 2013, 11, 14-20.	1.2	22
48	A simple microcapsule generator design for islet encapsulation. <i>Journal of Biosciences</i> , 1999, 24, 371-376.	0.5	20
49	The microRNA-29 family: role in metabolism and metabolic disease. <i>American Journal of Physiology - Cell Physiology</i> , 2022, 323, C367-C377.	2.1	20
50	Isolation, Expansion, and Characterization of Human Islet-Derived Progenitor Cells. <i>Methods in Molecular Biology</i> , 2012, 879, 351-366.	0.4	19
51	Green Approach Towards Size Controlled Synthesis of Biocompatible Antibacterial Metal Nanoparticles in Aqueous Phase Using Lysozyme. <i>Current Nanoscience</i> , 2012, 8, 130-140.	0.7	19
52	Postpartum circulating microRNA enhances prediction of future type 2 diabetes in women with previous gestational diabetes. <i>Diabetologia</i> , 2021, 64, 1516-1526.	2.9	19
53	Islet-like cell clusters occur naturally in human gall bladder and are retained in diabetic conditions. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 999-1000.	1.6	18
54	Antioxidant rich flavonoids from <i>Oreocnide integrifolia</i> enhance glucose uptake and insulin secretion and protects pancreatic β -cells from streptozotocin insult. <i>BMC Complementary and Alternative Medicine</i> , 2011, 11, 126.	3.7	18

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55	A MicroRNA Signature in Acute Coronary Syndrome Patients and Modulation by Colchicine. <i>Journal of Cardiovascular Pharmacology and Therapeutics</i> , 2020, 25, 444-455.	1.0	17
56	Machine learning workflows identify a microRNA signature of insulin transcription in human tissues. <i>IScience</i> , 2021, 24, 102379.	1.9	17
57	The long noncoding RNA MALAT1 predicts human islet isolation quality. <i>JCI Insight</i> , 2019, 4, .	2.3	17
58	Human pancreatic islet progenitor cells demonstrate phenotypic plasticity in vitro. <i>Journal of Biosciences</i> , 2009, 34, 523-528.	0.5	16
59	Phlda3 regulates beta cell survival during stress. <i>Scientific Reports</i> , 2019, 9, 12827.	1.6	16
60	Insulin micro-secretion in Type 1 diabetes and related microRNA profiles. <i>Scientific Reports</i> , 2021, 11, 11727.	1.6	16
61	Islet Cryopreservation: Improved Recovery following Taurine Pretreatment. <i>Cell Transplantation</i> , 2001, 10, 247-253.	1.2	15
62	Circulating human microRNA biomarkers of oxalic acid-induced acute kidney injury. <i>Archives of Toxicology</i> , 2020, 94, 1725-1737.	1.9	15
63	Integration-Free Human Induced Pluripotent Stem Cells from type 1 Diabetes Patient Skin Fibroblasts Show Increased Abundance of Pancreas-Specific microRNAs. <i>Cell Medicine</i> , 2014, 7, 15-24.	5.0	13
64	Quantitative Estimation of Multiple miRNAs and mRNAs from a Single Cell. <i>Cold Spring Harbor Protocols</i> , 2010, 2010, pdb.prot5478.	0.2	11
65	Simultaneous imaging of microRNA or mRNA territories with protein territory in mammalian cells at single cell resolution. <i>RNA Biology</i> , 2012, 9, 949-953.	1.5	11
66	Maternal stress during pregnancy and small for gestational age birthweight are not associated with telomere length at 11 years of age. <i>Gene</i> , 2019, 694, 97-101.	1.0	11
67	Urinary microRNAs as non-invasive biomarkers for toxic acute kidney injury in humans. <i>Scientific Reports</i> , 2021, 11, 9165.	1.6	11
68	Circulating microRNAs in Diabetes Progression: Discovery, Validation, and Research Translation. <i>Exs</i> , 2015, 106, 215-244.	1.4	11
69	Relative leucocyte telomere length is associated with incident end-stage kidney disease and rapid decline of kidney function in type 2 diabetes: analysis from the Hong Kong Diabetes Register. <i>Diabetologia</i> , 2022, 65, 375-386.	2.9	11
70	Chromosomal polymorphism is associated with nematode parasitism in a natural population of a tropical midge. <i>Chromosoma</i> , 2001, 110, 58-64.	1.0	10
71	Human islet cells are killed by BID-independent mechanisms in response to FAS ligand. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2016, 21, 379-389.	2.2	10
72	Expression of miR-206 in human islets and its role in glucokinase regulation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 315, E634-E637.	1.8	10

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73	Shortened relative leukocyte telomere length is associated with all-cause mortality in type 2 diabetes-analysis from the Hong Kong Diabetes Register. <i>Diabetes Research and Clinical Practice</i> , 2021, 173, 108649.	1.1	10
74	Stem-Cell Therapy for Diabetes Cure: How Close are We?. <i>Current Stem Cell Research and Therapy</i> , 2006, 1, 425-436.	0.6	9
75	Decrease in Plasma miR-27a and miR-221 After Concussion in Australian Football Players. <i>Biomarker Insights</i> , 2022, 17, 117727192210813.	1.0	9
76	Levels of circulating insulin cell-free DNA in women with polycystic ovary syndrome – a longitudinal cohort study. <i>Reproductive Biology and Endocrinology</i> , 2019, 17, 34.	1.4	8
77	<i>Oreocnide integrifolia</i> Flavonoids Augment Reprogramming for Islet Neogenesis and β -Cell Regeneration in Pancreatectomized BALB/c Mice. <i>Evidence-based Complementary and Alternative Medicine</i> , 2012, 2012, 1-13.	0.5	7
78	Cellular detection of multiple antigens at single cell resolution using antibodies generated from the same species. <i>Journal of Immunological Methods</i> , 2012, 379, 42-47.	0.6	6
79	A bird's eye view of the dynamics of pancreatic β -cell heterogeneity. <i>Acta Physiologica</i> , 2021, 233, e13664.	1.8	6
80	Influence of <i>Oreocnide integrifolia</i> (Gaud.) Miq on IRS-1, Akt and Glut-4 in Fat-Fed C57BL/6J Type 2 Diabetes Mouse Model. <i>Evidence-based Complementary and Alternative Medicine</i> , 2011, 2011, 1-9.	0.5	5
81	Connexins and microRNAs: Interlinked players in regulating islet function?. <i>Islets</i> , 2017, 9, 99-108.	0.9	5
82	Epigenetic and Transcriptome Profiling Identifies a Population of Visceral Adipose-Derived Progenitor Cells with the Potential to Differentiate into an Endocrine Pancreatic Lineage. <i>Cell Transplantation</i> , 2019, 28, 89-104.	1.2	5
83	Circulating microRNAs from early childhood and adolescence are associated with pre-diabetes at 18 years of age in women from the PMNS cohort. <i>Journal of Developmental Origins of Health and Disease</i> , 2022, 13, 806-811.	0.7	5
84	A Novel Gene Delivery Approach Using Metal Organic Frameworks in Human Islet-Derived Progenitor Cells. <i>Methods in Molecular Biology</i> , 2019, 2029, 81-91.	0.4	4
85	Comparative analysis of diagnostic platforms for measurement of differentially methylated insulin DNA. <i>Journal of Biological Methods</i> , 2019, 6, e113.	1.0	4
86	Postpartum Circulating Cell-Free Insulin DNA Levels Are Higher in Women with Previous Gestational Diabetes Mellitus Who Develop Type 2 Diabetes in Later Life. <i>Journal of Diabetes Research</i> , 2019, 2019, 1-5.	1.0	3
87	Droplet Digital PCR for Measuring Absolute Copies of Gene Transcripts in Human Islet-Derived Progenitor Cells. <i>Methods in Molecular Biology</i> , 2019, 2029, 37-48.	0.4	3
88	Hijacking of Endocrine and Metabolic Regulation in Cancer and Diabetes. <i>BioMed Research International</i> , 2015, 2015, 1-2.	0.9	2
89	Promoting Pro-Endocrine Differentiation and Graft Maturation Following Surgical Resection of the Mouse Pancreas. <i>Methods in Molecular Biology</i> , 2021, 2224, 87-98.	0.4	2
90	Lineage-Committed Pancreatic Progenitors and Stem Cells. <i>Pancreatic Islet Biology</i> , 2014, , 339-357.	0.1	2

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91	Pdx1 (GFP/w) Mice for Isolation, Characterization, and Differentiation of Pancreatic Progenitor Cells. <i>Methods in Molecular Biology</i> , 2014, 1194, 271-288.	0.4	2
92	Directed differentiation into insulin-producing cells using microRNA manipulation. <i>Open Medicine (Poland)</i> , 2020, 15, 567-570.	0.6	2
93	Manipulation and Assessment of Gut Microbiome for Metabolic Studies. <i>Methods in Molecular Biology</i> , 2014, 1194, 449-469.	0.4	2
94	Generation of Human Islet Progenitor Cells via Epithelial-to-Mesenchymal Transition. <i>Pancreatic Islet Biology</i> , 2016, , 217-240.	0.1	1
95	Continuous subcutaneous insulin infusion alters microRNA expression and glycaemic variability in children with type 1 diabetes. <i>Scientific Reports</i> , 2021, 11, 16656.	1.6	1
96	Manipulating cellular microRNAs and analyzing high-dimensional gene expression data using machine learning workflows. <i>STAR Protocols</i> , 2021, 2, 100910.	0.5	1
97	A Pro-Endocrine Pancreatic Islet Transcriptional Program Established During Development Is Retained in Human Gallbladder Epithelial Cells. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , 2022, 13, 1530-1553.e4.	2.3	1
98	Analysis of Half a Billion Datapoints Across Ten Machine-Learning Algorithms Identifies Key Elements Associated With Insulin Transcription in Human Pancreatic Islet Cells. <i>Frontiers in Endocrinology</i> , 2022, 13, 853863.	1.5	1
99	Vitamin D Levels During Pregnancy Are Associated With Offspring Telomere Length: A Longitudinal Mother-Child Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2022, 107, e3901-e3909.	1.8	1
100	Urinary versus serum microRNAs in human oxalic acid poisoning: Contrasting signals and performance. <i>Toxicology Letters</i> , 2020, 334, 21-26.	0.4	0
101	Human Pancreatic Progenitors: Implications for Clinical Transplantation in Diabetes. , 2013, , 237-249.		0