Ole D Madsen

List of Publications by Year
in descending order

106 papers	9,589 citations	44069 48 h-index	36028 97 g-index
107 all docs	107 docs citations	107 times ranked	7413 citing authors

#	Article	IF	Citations
1	Hypothalamic CART is a new anorectic peptide regulated by leptin. Nature, 1998, 393, 72-76.	27.8	1,147
2	Control of endodermal endocrine development by Hes-1. Nature Genetics, 2000, 24, 36-44.	21.4	1,031
3	The Ectopic Expression of Pax4 in the Mouse Pancreas Converts Progenitor Cells into Î± and Subsequently Î² Cells. Cell, 2009, 138, 449-462.	28.9	489
4	Independent development of pancreatic alpha- and beta-cells from neurogenin3-expressing precursors: a role for the notch pathway in repression of premature differentiation.. Diabetes, 2000, 49, 163-176.	0.6	399
5	Conversion of proinsulin to insulin occurs coordinately with acidification of maturing secretory vesicles.. Journal of Cell Biology, 1986, 103, 2273-2281.	5.2	336
6	An Illustrated Review of Early Pancreas Development in the Mouse. Endocrine Reviews, 2007, 28, 685-705.	20.1	323
7	Direct identification of prohormone conversion site in insulin-secreting cells. Cell, 1985, 42, 671-681.	28.9	310
8	Transcription Factor Hepatocyte Nuclear Factor 6 Regulates Pancreatic Endocrine Cell Differentiation and Controls Expression of the Proendocrine Gene ngn3. Molecular and Cellular Biology, 2000, 20, 4445-4454.	2.3	306
9	Recapitulation of embryonic neuroendocrine differentiation in adult human pancreatic duct cells expressing neurogenin 3. Journal of Cell Biology, 2002, 159, 303-312.	5.2	261
10	Activated Notch1 prevents differentiation of pancreatic acinar cells and attenuate endocrine development. Developmental Biology, 2003, 260, 426-437.	2.0	225
11	Transcriptional regulation of the human insulin gene is dependent on the homeodomain protein STF1/IPF1 acting through the CT boxes.. Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 10465-10469.	7.1	199
12	mRNA Profiling of Rat Islet Tumors Reveals Nkx 6.1 as a Î²-Cell-specific Homeodomain Transcription Factor. Journal of Biological Chemistry, 1996, 271, 18749-18758.	3.4	199
13	The c-Jun amino-terminal kinase pathway is preferentially activated by interleukin-1 and controls apoptosis in differentiating pancreatic beta-cells. Diabetes, 2000, 49, 1468-1476.	0.6	192
14	Differential expression of the two nonallelic proinsulin genes in the developing mouse embryo.. Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 527-531.	7.1	180
15	The Insulin Gene Promoter: A Simplified Nomenclature. Diabetes, 1995, 44, 1002-1004.	0.6	171
16	Genetic determinants of pancreatic Îµ-cell development. Developmental Biology, 2005, 286, 217-224.	2.0	166
17	Expression patterns of Wnts, Frizzleds, sFRPs, and misexpression in transgenic mice suggesting a role for Wnts in pancreas and foregut pattern formation. Developmental Dynamics, 2002, 225, 260-270.	1.8	154
18	The glucose sensor protein glucokinase is expressed in glucagon-producing alpha-cells.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 7036-7041.	7.1	132

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19	Induction of insulin and islet amyloid polypeptide production in pancreatic islet glucagonoma cells by insulin promoter factor 1.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 9015-9020.	7.1	127
20	Cloned cell lines from a transplantable islet cell tumor are heterogeneous and express cholecystokinin in addition to islet hormones.. Journal of Cell Biology, 1986, 103, 2025-2034.	5.2	118
21	Growth Hormone is a Growth Factor for the Differentiated Pancreatic Î²-Cell. Molecular Endocrinology, 1989, 3, 165-173.	3.7	118
22	Pancreatic-duodenal homeobox 1 -role in gastric endocrine patterning. Mechanisms of Development, 1996, 60, 175-184.	1.7	117
23	The EndoC-Î²H1 cell line is a valid model of human beta cells and applicable for screenings to identify novel drug target candidates. Molecular Metabolism, 2018, 8, 144-157.	6.5	110
24	Rat Endocrine Pancreatic Development in Relation to Two Homeobox Gene Products (Pdx-1 and Nkx) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.5	105
25	Nestin Is Expressed in Vascular Endothelial Cells in the Adult Human Pancreas. Journal of Histochemistry and Cytochemistry, 2003, 51, 697-706.	2.5	98
26	Cloning, characterization, and autoimmune recognition of rat islet glutamic acid decarboxylase in insulin-dependent diabetes mellitus.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 8754-8758.	7.1	95
27	The hypothalamic satiety peptide CART is expressed in anorectic and nonâ€anorectic pancreatic islet tumors and in the normal islet of Langerhans. FEBS Letters, 1999, 447, 139-143.	2.8	90
28	Neurogenin 3+ cells contribute to Î²-cell neogenesis and proliferation in injured adult mouse pancreas. Cell Death and Disease, 2013, 4, e523-e523.	6.3	87
29	Studies on the isolation, structural analysis and tissue localization of fetal antigen 1 and its relation to a human adrenal-specific cDNA, pG2. Human Reproduction, 1993, 8, 635-641.	0.9	85
30	The role of Brn4/Pou3f4 and Pax6 in forming the pancreatic glucagon cell identity. Developmental Biology, 2004, 268, 123-134.	2.0	83
31	G Protein-Coupled Receptor 39 Deficiency Is Associated with Pancreatic Islet Dysfunction. Endocrinology, 2009, 150, 2577-2585.	2.8	82
32	An Improved Method for Three-dimensional Reconstruction of Protein Expression Patterns in Intact Mouse and Chicken Embryos and Organs. Journal of Histochemistry and Cytochemistry, 2007, 55, 925-930.	2.5	81
33	Transcription Factors Contributing to the Pancreatic Î²-Cell Phenotype. Hormone and Metabolic Research, 1997, 29, 265-270.	1.5	74
34	Science, medicine, and the future: Islet and stem cell transplantation for treating diabetes. BMJ: British Medical Journal, 2001, 322, 29-32.	2.3	72
35	Glucose stimulates the activation domain potential of the PDX-1 homeodomain transcription factor. FEBS Letters, 1998, 431, 362-366.	2.8	68
36	Ptf1a-mediated control of Dll1 reveals an alternative to the lateral inhibition mechanism. Development (Cambridge), 2012, 139, 33-45.	2.5	64

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37	Potent inhibitory effects of transplantable rat glucagonomas and insulinomas on the respective endogenous islet cells are associated with pancreatic apoptosis.. Journal of Clinical Investigation, 1995, 96, 2227-2235.	8.2	63
38	Improved Glucose Tolerance and Acinar Dysmorphogenesis by Targeted Expression of Transcription Factor PDX-1 to the Exocrine Pancreas. Diabetes, 2001, 50, 1553-1561.	0.6	60
39	Beta-cell maturation leads to in vitro sensitivity to cytotoxins. Diabetes, 1999, 48, 2324-2332.	0.6	56
40	Expression of Wnt, Frizzled, sFRP, and DKK Genes in Adult Human Pancreas. Gene Expression, 2003, 11, 141-147.	1.2	56
41	Generation and Characterization of Ptf1a Antiserum and Localization of Ptf1a in Relation to Nkx6.1 and Pdx1 During the Earliest Stages of Mouse Pancreas Development. Journal of Histochemistry and Cytochemistry, 2008, 56, 587-595.	2.5	55
42	Effect of 5â€²-Flanking Sequence Deletions on Expression of the Human Insulin Gene in Transgenic Mice. Molecular Endocrinology, 1990, 4, 669-677.	3.7	54
43	Islet Amyloid Polypeptide and Insulin Expression Are Controlled Differently in Primary and Transformed Islet Cells. Molecular Endocrinology, 1991, 5, 143-148.	3.7	54
44	Association between Neuromedin U Gene Variants and Overweight and Obesity. Journal of Clinical Endocrinology and Metabolism, 2006, 91, 5057-5063.	3.6	54
45	Pax6 and Pdx1 form a functional complex on the rat somatostatin gene upstream enhancer. FEBS Letters, 1999, 445, 315-320.	2.8	52
46	Pancreatic Development and Maturation of the Islet B Cell. Studies of Pluripotent Islet Cultures. FEBS Journal, 1996, 242, 435-445.	0.2	51
47	The Production and Characterization of Monoclonal Antibodies Specific for Human Proinsulin Using a Sensitive Microdot Assay Procedure*. Endocrinology, 1983, 113, 2135-2144.	2.8	49
48	A two-colour immunofluorescence test with a monoclonal human proinsulin antibody improves the assay for islet cell antibodies. Diabetologia, 1986, 29, 115-118.	6.3	48
49	Autocrine Action of IGF2 Regulates Adult Î²-Cell Mass and Function. Diabetes, 2015, 64, 4148-4157.	0.6	46
50	Differential expression of neural cell adhesion molecule and cadherins in pancreatic islets, glucagonomas, and insulinomas. Molecular Endocrinology, 1992, 6, 1332-1342.	3.7	45
51	Pancreatic islet and progenitor cell surface markers with cell sorting potential. Diabetologia, 2012, 55, 154-165.	6.3	44
52	Transplantable rat glucagonomas cause acute onset of severe anorexia and adipsia despite highly elevated NPY mRNA levels in the hypothalamic arcuate nucleus.. Journal of Clinical Investigation, 1998, 101, 503-510.	8.2	43
53	Tissue-specific expression of transfected human insulin genes in pluripotent clonal rat insulinoma lines induced during passage in vivo.. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 6652-6656.	7.1	42
54	Presence of islet amyloid polypeptide in rat islet B and D cells determines parallelism and dissociation between rat pancreatic islet amyloid polypeptide and insulin content. Biochemical and Biophysical Research Communications, 1992, 182, 886-893.	2.1	40

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55	Towards cell therapy for diabetes. Nature Biotechnology, 2006, 24, 1481-1483.	17.5	39
56	Pax4 Represses Pancreatic Glucagon Gene Expression. Molecular Cell Biology Research Communications: MCBRC: Part B of Biochemical and Biophysical Research Communications, 2000, 3, 249-254.	1.6	36
57	EGF-induced proliferation of adult human pancreatic duct cells is mediated by the MEK/ERK cascade. Laboratory Investigation, 2005, 85, 65-74.	3.7	36
58	Pancreatic Î±-cell hyperplasia and hyperglucagonemia due to a glucagon receptor splice mutation. Endocrinology, Diabetes and Metabolism Case Reports, 2016, 2016, .	0.5	36
59	Differential expression of glutamic acid decarboxylase in rat and human islets. Diabetes, 1993, 42, 484-495.	0.6	36
60	Cloning and DNA-binding properties of the rat pancreatic Î²-cell-specific factor Nkx6.1. FEBS Letters, 1999, 461, 287-294.	2.8	35
61	Distribution patterns of proinsulin and insulin in human insulinomas: an immunohistochemical analysis in 76 tumors. Vigiliae Christianae, 1993, 63, 51-61.	0.1	33
62	Pax6 and Cdx2/3 form a functional complex on the rat glucagon gene promoter G1-element. FEBS Letters, 1999, 445, 306-310.	2.8	33
63	Evidence of an Association Between the Arg72 Allele of the Peptide YY and Increased Risk of Type 2 Diabetes. Diabetes, 2005, 54, 2261-2265.	0.6	33
64	Recombinant glutamic acid decarboxylase (representing the single isoform expressed in human islets) detects IDDM-associated 64,000-M(r) autoantibodies. Diabetes, 1992, 41, 1355-1359.	0.6	33
65	Research Resource: A Dual Proteomic Approach Identifies Regulated Islet Proteins During Î²-Cell Mass Expansion In Vivo. Molecular Endocrinology, 2016, 30, 133-143.	3.7	28
66	Pancreas phylogeny and ontogeny in relation to a â€˜pancreatic stem cellâ€™. Comptes Rendus - Biologies, 2007, 330, 534-537.	0.2	23
67	The LIM-homeodomain protein Isl-1 segregates with somatostatin but not with gastrin expression during differentiation of somatostatin/gastrin precursor cells. Endocrine, 1995, 3, 519-524.	2.2	22
68	Gastric Amylin Expression: Cellular Identity and Lack of Requirement for the Homeobox Protein PDX-1. A Study in Normal and PDX-1-Deficient Animals with a Cautionary Note on Antiserum Evaluation. Journal of Histochemistry and Cytochemistry, 1999, 47, 973-980.	2.5	22
69	Xenotropic retrovirus Bxv1 in human pancreatic Î² cell lines. Journal of Clinical Investigation, 2016, 126, 1109-1113.	8.2	20
70	Functioning human insulinomas. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 1998, 433, 495-504.	2.8	19
71	Generation of Monoclonal Antibodies Against Mouse Neurogenin 3: A New Immunocytochemical Tool to Study the Pancreatic Endocrine Progenitor Cell. Hybridoma, 2004, 23, 385-388.	0.4	19
72	Generation and Characterization of Monoclonal Antibodies against the Transcription Factor Nkx6.1. Journal of Histochemistry and Cytochemistry, 2006, 54, 567-574.	2.5	19

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73	B islet cells of pancreas are the site of expression of the human insulin gene in transgenic mice. Experimental Cell Research, 1989, 180, 467-474.	2.6	18
74	Islet amyloid polypeptide immunoreactivity in the human fetal pancreas. Diabetologia, 1992, 35, 272-276.	6.3	18
75	Homozygous carriers of the G allele of rs4664447 of the glucagon gene (GCG) are characterised by decreased fasting and stimulated levels of insulin, glucagon and glucagon-like peptide (GLP)-1. Diabetologia, 2011, 54, 2820-2831.	6.3	16
76	Immature transformed rat islet beta-cells differentially express C- peptides derived from the genes coding for insulin I and II as well as a transfected human insulin gene. Molecular Endocrinology, 1992, 6, 299-307.	3.7	15
77	Comparison of detection limits for various nitrocellulose binding immunoassays using Î²2-microglobulin as a model antigen. Electrophoresis, 1984, 5, 313-314.	2.4	14
78	Proinsulin is encoded by an RNA splice variant in human blood myeloid cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 16430-16435.	7.1	14
79	Proinsulin-Specific Monoclonal Antibodies: Immunocytochemical Application as Â-Cell Markers and as Probes for Conversion. Diabetes, 1987, 36, 1203-1211.	0.6	13
80	Investigation and Characterization of the Duct Cell-Enriching Process During Serum-Free Suspension and Monolayer Culture Using the Human Exocrine Pancreas Fraction. Pancreas, 2009, 38, 36-48.	1.1	13
81	Human proinsulin-specific antigenic determinants identified by monoclonal antibodies. Diabetes, 1984, 33, 1012-1016.	0.6	13
82	The morphology of islets of Langerhans is only mildly affected by the lack of Pdx-1 in the pancreas of adult Meriones jirds. General and Comparative Endocrinology, 2008, 159, 241-249.	1.8	12
83	Intracranial ectopic pancreatic tissue. Islets, 2010, 2, 65-71.	1.8	12
84	Cloning and expression of cytokine-inducible nitric oxide synthase cDNA from rat islets of Langerhans. Diabetes, 1995, 44, 753-758.	0.6	12
85	Novel Islet, Duct, and Acinar Cell Markers Defined by Monoclonal Autoantibodies from Prediabetic BB Rats. Pancreas, 1990, 5, 540-547.	1.1	10
86	Ultrastructure and Electron Inununocytochemistry of Insulin-producing B-Cell Tumors from Transgenic Mice: Comparison with Counterpart Human Tumors. Ultrastructural Pathology, 1988, 12, 547-559.	0.9	8
87	Specificity of Four Monoclonal Anti-Nkx6-1 Antibodies. Journal of Histochemistry and Cytochemistry, 2008, 56, 415-424.	2.5	8
88	Differential expression of non-allelic insulin genes in rodent islet tumour cells. Journal of Molecular Endocrinology, 1993, 11, 305-318.	2.5	7
89	Betatrophin. Islets, 2014, 6, e28686.	1.8	7
90	Differential islet cell expression of two glutamate decarboxylases, both autoantigens in diabetes. Biochemical Society Transactions, 1993, 21, 173-177.	3.4	6

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91	Topographic Differences in Cell Populations and Insulin Secretion in the Endocrine Pancreas of the ToadBufo arenarum. General and Comparative Endocrinology, 1996, 104, 346-355.	1.8	6
92	Human Islets in Mixed Islet Grafts Protect Mouse Pancreatic Î²â€Cells from Alloxan Toxicity. Basic and Clinical Pharmacology and Toxicology, 1999, 85, 269-275.	0.0	6
93	A tumour model for the study of islet cell differentiation. Biochemical Society Transactions, 1993, 21, 142-146.	3.4	5
94	A simple assay for the detection of antibodies to endocrine islet cell surface antigens. Journal of Immunological Methods, 1986, 95, 135-139.	1.4	4
95	Islet expression of Rhombotin and Isl-1 suggests cell type specific exposure of LIM-domain epitopes. Endocrine, 1995, 3, 399-408.	2.2	4
96	Ptf1a control of Dll1 reveals an alternative to the lateral inhibition mechanism. Development (Cambridge), 2012, 139, 4492-4492.	2.5	4
97	A new view of the beta cell. Diabetologia, 2012, 55, 2316-2318.	6.3	4
98	Protein HMG-17 is hyper-expressed in rat glucagonoma. Single-step isolation and sequencing. FEBS Journal, 1990, 192, 81-86.	0.2	3
99	An Historical and Phylogenetic Perspective of Islet-Cell Development. Growth Hormone, 2001, , 1-17.	0.2	3
100	Antibodies to Islet Beta Cell Surface Markers. Current Medicinal Chemistry Immunology, Endocrine & Metabolic Agents, 2004, 4, 309-313.	0.2	3
101	Hormone Coexpression in the Adult Toad Endocrine Pancreas: Double-Label Immunofluorescence under Basal Conditions and after Glucose Injection. General and Comparative Endocrinology, 1999, 115, 29-36.	1.8	2
102	Detection of proinsulin, C-peptide, insulin-A-chain, and Glicentin in pancreatic islet cells of early human fetogenesis. Acta Histochemica, 1991, 91, 39-42.	1.8	1
103	Histochemical changes in pancreatic islets obtained from obese Zucker rats (fa/fa) on a diabetogenic diet. No evidence for non-enzymatic protein glycation in endocrine cells. European Journal of Endocrinology, 1993, 129, 46-53.	3.7	0
104	Beta Cell Workshop 2013 Kyoto. Islets, 2013, 5, 107-110.	1.8	0
105	bHLH Factors and Notch in Pancreatic Development. Growth Hormone, 2001, , 213-227.	0.2	0
106	Î²-Cell Ontogenesis and the Insulin Production Apparatus. , 2011, , 73-81.		0