

# Michael Welsh

## List of Publications by Year in descending order

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118  
papers

4,715  
citations

147566

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106150

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118  
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118  
docs citations

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times ranked

4511  
citing authors

#	ARTICLE	IF	CITATIONS
1	Perspectives on Vascular Regulation of Mechanisms Controlling Selective Immune Cell Function in the Tumor Immune Response. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2313.	1.8	3
2	The retirement of Editor-in-Chief Arne Andersson, <i>Upsala Journal of Medical Sciences</i> 2006–2022: an amazing journey under Arne’s stewardship. <i>Upsala Journal of Medical Sciences</i> , 2022, 127, .	0.4	0
3	The Felicitous Success of the Subsection Molecular Oncology of <i>International Journal of Molecular Sciences</i> . <i>International Journal of Molecular Sciences</i> , 2021, 22, 6939.	1.8	0
4	Mouse Breast Carcinoma Monocytic/Macrophagic Myeloid-Derived Suppressor Cell Infiltration as a Consequence of Endothelial Dysfunction in Shb-Deficient Endothelial Cells Increases Tumor Lung Metastasis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 11478.	1.8	6
5	Absence of the Shb gene in mixed-lineage leukemia MLL-AF9 cells increases latency in mice despite higher proliferation rates in vitro. <i>Experimental Cell Research</i> , 2020, 397, 112368.	1.2	0
6	Pericyte dysfunction due to Shb gene deficiency increases B16F10 melanoma lung metastasis. <i>International Journal of Cancer</i> , 2020, 147, 2634-2644.	2.3	6
7	The Cdh5-CreERT2 transgene causes conditional Shb gene deletion in hematopoietic cells with consequences for immune cell responses to tumors. <i>Scientific Reports</i> , 2019, 9, 7548.	1.6	10
8	Temporal Dynamics of VEGFA-Induced VEGFR2/FAK Co-Localization Depend on SHB. <i>Cells</i> , 2019, 8, 1645.	1.8	12
9	Leukocyte Differentiation by Histidine-Rich Glycoprotein/Stanniocalcin-2 Complex Regulates Murine Glioma Growth through Modulation of Antitumor Immunity. <i>Molecular Cancer Therapeutics</i> , 2018, 17, 1961-1972.	1.9	16
10	Disparate effects of <i>Shb</i> gene deficiency on disease characteristics in murine models of myeloid, B-cell, and T-cell leukemia. <i>Tumor Biology</i> , 2018, 40, 101042831877147.	0.8	4
11	Pro-tumoral immune cell alterations in wild type and <i>Shb</i> -deficient mice in response to 4T1 breast carcinomas. <i>Oncotarget</i> , 2018, 9, 18720-18733.	0.8	7
12	Tumor <i>SHB</i> gene expression affects disease characteristics in human acute myeloid leukemia. <i>Tumor Biology</i> , 2017, 39, 101042831772064.	0.8	7
13	Maintenance of hematopoietic stem cell dormancy: yet another role for the macrophage. <i>Stem Cell Investigation</i> , 2016, 3, 46-46.	1.3	1
14	The role of the Src Homology-2 domain containing protein B (SHB) in $\hat{I}^2$ cells. <i>Journal of Molecular Endocrinology</i> , 2016, 56, R21-R31.	1.1	16
15	Claes Hellerström and Cartesian diver microrespirometry. <i>Upsala Journal of Medical Sciences</i> , 2016, 121, 77-80.	0.4	3
16	Identification and characterization of VEGF-A-responsive neutrophils expressing CD49d, VEGFR1, and CXCR4 in mice and humans. <i>Blood</i> , 2015, 126, 2016-2026.	0.6	183
17	Vascular dysfunction and increased metastasis of B16F10 melanomas in Shb deficient mice as compared with their wild type counterparts. <i>BMC Cancer</i> , 2015, 15, 234.	1.1	16
18	Vascular Endothelial Growth Factor-A-Induced Vascular Permeability and Leukocyte Extravasation. , 2015, , 187-207.		0

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19	<i>Shb</i> deficiency in endothelium but not in leucocytes is responsible for impaired vascular performance during hindlimb ischaemia. <i>Acta Physiologica</i> , 2015, 214, 200-209.	1.8	11
20	Absence of Shb impairs insulin secretion by elevated FAK activity in pancreatic islets. <i>Journal of Endocrinology</i> , 2014, 223, 267-275.	1.2	3
21	The Src homology-2 protein Shb modulates focal adhesion kinase signaling in a BCR-ABL myeloproliferative disorder causing accelerated progression of disease. <i>Journal of Hematology and Oncology</i> , 2014, 7, 45.	6.9	12
22	Absence of the adaptor protein Shb potentiates the <sc>T</sc> helper type 2 response in a mouse model of atopic dermatitis. <i>Immunology</i> , 2014, 143, 33-41.	2.0	12
23	Aberrant association between vascular endothelial growth factor receptor-2 and VE-cadherin in response to vascular endothelial growth factor-a in Shb-deficient lung endothelial cells. <i>Cellular Signalling</i> , 2013, 25, 85-92.	1.7	17
24	<sc>VEGFA</sc> and tumour angiogenesis. <i>Journal of Internal Medicine</i> , 2013, 273, 114-127.	2.7	635
25	The Src homology 2 protein Shb promotes cell cycle progression in murine hematopoietic stem cells by regulation of focal adhesion kinase activity. <i>Experimental Cell Research</i> , 2013, 319, 1852-1864.	1.2	13
26	SHB deficient mice display an increased GFR and augmented renal arteriolar contractions to both Adenosine and Ang II. <i>FASEB Journal</i> , 2013, 27, 909.14.	0.2	0
27	Vascular adaptation to a dysfunctional endothelium as a consequence of Shb deficiency. <i>Angiogenesis</i> , 2012, 15, 469-480.	3.7	17
28	Heterogeneity among RIPa€Tag2 insulinomas allows vascular endothelial growth factora independent tumor expansion as revealed by studies in Shb mutant mice: Implications for tumor angiogenesis. <i>Molecular Oncology</i> , 2012, 6, 333-346.	2.1	17
29	The platelet-derived growth factor (PDGF) family of tyrosine kinase receptors: a Kit to fix the beta cell?. <i>Diabetologia</i> , 2012, 55, 2092-2095.	2.9	2
30	Shb deficient mice display an augmented TH2 response in peripheral CD4+ T cells. <i>BMC Immunology</i> , 2011, 12, 3.	0.9	18
31	The Src Homology 2 Domain-Containing Adapter Protein B (SHB) Regulates Mouse Oocyte Maturation. <i>PLoS ONE</i> , 2010, 5, e11155.	1.1	17
32	Impaired glucose homeostasis in Shb~^/~ mice. <i>Journal of Endocrinology</i> , 2009, 203, 271-279.	1.2	11
33	Dysfunctional Microvasculature as a Consequence of <i>Shb</i> Gene Inactivation Causes Impaired Tumor Growth. <i>Cancer Research</i> , 2009, 69, 2141-2148.	0.4	30
34	Increased Hsp70 expression attenuates cytokine-induced cell death in islets of Langerhans from Shb knockout mice. <i>Biochemical and Biophysical Research Communications</i> , 2009, 387, 553-557.	1.0	12
35	Shb Gene Knockdown Increases the Susceptibility of SVR Endothelial Tumor Cells to Apoptotic Stimuli In Vitro and In Vivo. <i>Journal of Investigative Dermatology</i> , 2008, 128, 710-716.	0.3	15
36	Interdependent fibroblast growth factor and activin A signaling promotes the expression of endodermal genes in differentiating mouse embryonic stem cells expressing Src Homology 2-domain inactive Shb. <i>Differentiation</i> , 2008, 76, 443-453.	1.0	11

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37	VEGF Signal Transduction in Angiogenesis. , 2008, , 205-216.		2
38	Glucose intolerance and reduced islet blood flow in transgenic mice expressing the FRK tyrosine kinase under the control of the rat insulin promoter. American Journal of Physiology - Endocrinology and Metabolism, 2007, 292, E1183-E1190.	1.8	16
39	A role of FRK in regulation of embryonal pancreatic beta cell formation. Molecular and Cellular Endocrinology, 2007, 270, 73-78.	1.6	14
40	<i>Shb</i> null allele is inherited with a transmission ratio distortion and causes reduced viability in utero. Developmental Dynamics, 2007, 236, 2485-2492.	0.8	24
41	Reduced tumor growth in vivo and increased c-Abl activity in PC3 prostate cancer cells overexpressing the Shb adapter protein. BMC Cancer, 2007, 7, 161.	1.1	7
42	Consequences of Shb and c-Abl interactions for cell death in response to various stress stimuli. Experimental Cell Research, 2007, 313, 284-291.	1.2	17
43	SHB and angiogenic factors promote ES cell differentiation to insulin-producing cells. Biochemical and Biophysical Research Communications, 2006, 344, 517-524.	1.0	9
44	Platelet-derived growth factor receptor- $\beta$ promotes early endothelial cell differentiation. Blood, 2006, 108, 1877-1886.	0.6	83
45	A perfusion protocol for highly efficient transduction of intact pancreatic islets of Langerhans. Diabetologia, 2006, 49, 2388-2391.	2.9	23
46	The SHB Adapter Protein Is Required for Normal Maturation of Mesoderm during in Vitro Differentiation of Embryonic Stem Cells. Journal of Biological Chemistry, 2006, 281, 34484-34491.	1.6	14
47	A role of the protein Cbl in FGF-2-induced angiogenesis in murine brain endothelial cells. Cellular Signalling, 2005, 17, 1433-1438.	1.7	3
48	Shb promotes blood vessel formation in embryoid bodies by augmenting vascular endothelial growth factor receptor-2 and platelet-derived growth factor receptor- $\beta$ signaling. Experimental Cell Research, 2005, 308, 381-393.	1.2	19
49	The Adaptor Protein Shb Binds to Tyrosine 1175 in Vascular Endothelial Growth Factor (VEGF) Receptor-2 and Regulates VEGF-dependent Cellular Migration. Journal of Biological Chemistry, 2004, 279, 22267-22275.	1.6	225
50	The tyrosine kinase FRK/RAK participates in cytokine-induced islet cell cytotoxicity. Biochemical Journal, 2004, 382, 261-268.	1.7	18
51	The Shb adaptor protein causes Src-dependent cell spreading and activation of focal adhesion kinase in murine brain endothelial cells. Cellular Signalling, 2003, 15, 171-179.	1.7	30
52	The SHB adapter protein is required for efficient multilineage differentiation of mouse embryonic stem cells. Experimental Cell Research, 2003, 286, 40-56.	1.2	16
53	The FRK / RAK-SHB Signaling Cascade: A Versatile Signal- Transduction Pathway that Regulates Cell Survival, Differentiation and Proliferation. Current Molecular Medicine, 2003, 3, 313-324.	0.6	70
54	The Shb Adaptor Protein Binds to Tyrosine 766 in the FGFR-1 and Regulates the Ras/MEK/MAPK Pathway via FRS2 Phosphorylation in Endothelial Cells. Molecular Biology of the Cell, 2002, 13, 2881-2893.	0.9	82

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55	GTK Tyrosine Kinase-induced Alteration of IRS-protein Signalling in Insulin Producing Cells. <i>Molecular Medicine</i> , 2002, 8, 705-713.	1.9	9
56	Overexpression of the Shb SH2 Domain-Protein in Insulin-Producing Cells Leads to Altered Signaling Through the IRS-1 and IRS-2 Proteins. <i>Molecular Medicine</i> , 2002, 8, 695-704.	1.9	14
57	Shb links SLP-76 and Vav with the CD3 complex in Jurkat T cells. <i>FEBS Journal</i> , 2002, 269, 3279-3288.	0.2	17
58	GTK tyrosine kinase-induced alteration of IRS-protein signalling in insulin producing cells. <i>Molecular Medicine</i> , 2002, 8, 705-13.	1.9	3
59	Role of the Src homology 2 domain-containing protein Shb in murine brain endothelial cell proliferation and differentiation. <i>Cell Growth &amp; Differentiation: the Molecular Biology Journal of the American Association for Cancer Research</i> , 2002, 13, 141-8.	0.8	4
60	Increased Cytokine-Induced Cytotoxicity of Pancreatic Islet Cells from Transgenic Mice Expressing the Src-like Tyrosine Kinase GTK. <i>Molecular Medicine</i> , 2001, 7, 301-310.	1.9	15
61	Role of Tyrosine Kinase Signaling for $\beta$ -Cell Replication and Survival. <i>Upsala Journal of Medical Sciences</i> , 2000, 105, 7-15.	0.4	17
62	Endostatin-induced tyrosine kinase signaling through the Shb adaptor protein regulates endothelial cell apoptosis. <i>Blood</i> , 2000, 95, 3403-3411.	0.6	248
63	GTK, a Src-related Tyrosine Kinase, Induces Nerve Growth Factor-independent Neurite Outgrowth in PC12 Cells through Activation of the Rap1 Pathway. <i>Journal of Biological Chemistry</i> , 2000, 275, 29153-29161.	1.6	33
64	Shf, a Shb-like Adapter Protein, Is Involved in PDGF- $\beta$ -Receptor Regulation of Apoptosis. <i>Biochemical and Biophysical Research Communications</i> , 2000, 278, 537-543.	1.0	25
65	Platelet-Derived Growth Factor-Mediated Signaling through the Shb Adaptor Protein: Effects on Cytoskeletal Organization. <i>Experimental Cell Research</i> , 2000, 257, 245-254.	1.2	22
66	NGF-Dependent Neurite Outgrowth in PC12 Cells Overexpressing the Src Homology 2-Domain Protein Shb Requires Activation of the Rap1 Pathway. <i>Experimental Cell Research</i> , 2000, 259, 370-377.	1.2	26
67	Role of the Bsk/Iyk Non-Receptor Tyrosine Kinase for the Control of Growth and Hormone Production in RINm5F Cells. <i>Growth Factors</i> , 2000, 17, 233-247.	0.5	16
68	Endostatin-induced tyrosine kinase signaling through the Shb adaptor protein regulates endothelial cell apoptosis. <i>Blood</i> , 2000, 95, 3403-3411.	0.6	12
69	Transgenic Mice Expressing Shb Adaptor Protein under the Control of Rat Insulin Promoter Exhibit Altered Viability of Pancreatic Islet Cells. <i>Molecular Medicine</i> , 1999, 5, 169-180.	1.9	28
70	Requirement of the Src Homology 2 Domain Protein Shb for T Cell Receptor-dependent Activation of the Interleukin-2 Gene Nuclear Factor for Activation of T Cells Element in Jurkat T Cells. <i>Journal of Biological Chemistry</i> , 1999, 274, 28050-28057.	1.6	34
71	Stimulation through the T cell receptor leads to interactions between SHB and several signaling proteins. <i>Oncogene</i> , 1998, 16, 891-901.	2.6	59
72	Mutation of C-Terminal Tyrosine Residues Y497/Y504 of the Src-Family Member Bsk/Iyk Decreases NIH3T3 Cell Proliferation. <i>Growth Factors</i> , 1998, 16, 111-124.	0.5	20

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73	Angiostatin induces endothelial cell apoptosis and activation of focal adhesion kinase independently of the integrin-binding motif RGD. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 5579-5583.	3.3	302
74	Modulation of Src Homology 3 Proteins by the Proline-Rich Adaptor Protein Shb. Experimental Cell Research, 1997, 231, 269-275.	1.2	4
75	Effects of vascular endothelial growth factor on pancreatic duct cell replication and the insulin production of fetal islet-like cell clusters in vitro. Molecular and Cellular Endocrinology, 1997, 126, 125-132.	1.6	66
76	Effects of Certain Growth Factors on In Vitro Maturation of Rat Fetal Islet-like Structures. Pancreas, 1996, 12, 334-339.	0.5	36
77	Control of SHB gene expression by protein phosphorylation. Cellular Signalling, 1996, 8, 55-58.	1.7	2
78	Apoptosis of NIH3T3 cells overexpressing the Src homology 2 domain protein Shb. Oncogene, 1996, 13, 955-61.	2.6	28
79	Cloning of BSK, a murine FRK homologue with a specific pattern of tissue distribution. Gene, 1995, 152, 239-242.	1.0	32
80	Expression of an insulin/interleukin-1 receptor antagonist hybrid gene in insulin-producing cell lines (HIT-T15 and NIT-1) confers resistance against interleukin-1-induced nitric oxide production.. Journal of Clinical Investigation, 1995, 95, 1717-1722.	3.9	17
81	Molecular interactions of the Src homology 2 domain protein Shb with phosphotyrosine residues, tyrosine kinase receptors and Src homology 3 domain proteins. Oncogene, 1995, 10, 1475-83.	2.6	49
82	Expression of Protein Tyrosine Kinases in Islet Cells: Possible Role of the Flk-1 Receptor for $\beta$ -Cell Maturation from Duct Cells. Growth Factors, 1994, 10, 115-126.	0.5	87
83	Protein kinase C modulates the insulin secretory process by maintaining a proper function of the beta-cell voltage-activated $Ca^{2+}$ channels. Journal of Biological Chemistry, 1994, 269, 2743-9.	1.6	74
84	Shb is a ubiquitously expressed Src homology 2 protein. Oncogene, 1994, 9, 19-27.	2.6	54
85	Genetic factors of importance for $\beta$ -cell proliferation. Diabetes/metabolism Reviews, 1993, 9, 25-36.	0.2	22
86	Enhanced stimulus-secretion coupling in polyamine-depleted rat insulinoma cells. An effect involving increased cytoplasmic $Ca^{2+}$ , inositol phosphate generation, and phorbol ester sensitivity.. Journal of Clinical Investigation, 1993, 92, 1910-1917.	3.9	30
87	A Chimera between Platelet-Derived Growth Factor $\beta$ -Receptor and Fibroblast Growth Factor Receptor-1 Stimulates Pancreatic $\beta$ -Cell. DNA Synthesis in the Presence of PDGF-BB. Growth Factors, 1992, 6, 93-101.	0.5	10
88	Interleukin- $1\beta$ Increases the Biosynthesis of the Heat Shock Protein hsp70 and Selectively Decreases the Biosynthesis of five Proteins in rat Pancreatic Islets. Autoimmunity, 1991, 9, 33-40.	1.2	30
89	Isolation of hsp70-binding proteins from bovine muscle. Biochemical and Biophysical Research Communications, 1991, 178, 1-7.	1.0	28
90	Exposure of pancreatic islets to different alkylating agents decreases mitochondrial DNA content but only streptozotocin induces long-lasting functional impairment of B-cells. Biochemical Pharmacology, 1991, 42, 2275-2282.	2.0	38

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91	The characterization and use of different antibodies against the hsp70 major heat shock protein family for the development of an immunoassay. <i>Electrophoresis</i> , 1991, 12, 670-673.	1.3	12
92	Decrease in insulin-containing secretory granules and mitochondrial gene expression in mouse pancreatic islets maintained in culture following streptozotocin exposure. <i>Vigiliae Christianae</i> , 1991, 60, 337-344.	0.1	16
93	Decreased mitochondrial gene expression in isolated islets of rats injected neonatally with streptozotocin. <i>Diabetologia</i> , 1991, 34, 626-631.	2.9	31
94	Biochemical and Molecular Actions of Interleukin-1 on Pancreatic $\beta$ -Cells. <i>Autoimmunity</i> , 1991, 10, 241-253.	1.2	79
95	Analysis of protein binding to heat shock protein 70 in pancreatic islet cells exposed to elevated temperatures or interleukin 1 beta. <i>Journal of Biological Chemistry</i> , 1991, 266, 9295-8.	1.6	21
96	Metabolism and $\beta$ -cell function of rat pancreatic islets exposed to human interleukin- $1\beta$ in the presence of a high glucose concentration. <i>Immunology Letters</i> , 1990, 26, 245-251.	1.1	44
97	Coexpression of the platelet-derived growth factor (PDGF) B chain and the PDGF beta receptor in isolated pancreatic islet cells stimulates DNA synthesis.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990, 87, 5807-5811.	3.3	36
98	Interleukin-6 Affects Insulin Secretion and Glucose Metabolism of Rat Pancreatic Islets <i>in vitro</i> *. <i>Endocrinology</i> , 1990, 126, 1288-1294.	1.4	121
99	Interleukin- $1\beta$ Depletes Insulin Messenger Ribonucleic Acid and Increases the Heat Shock Protein hsp70 in Mouse Pancreatic Islets Without Impairing the Glucose Metabolism*. <i>Endocrinology</i> , 1990, 127, 2290-2297.	1.4	71
100	Expression of voltage-gated K <sup>+</sup> channels in insulin-producing cells. <i>FEBS Letters</i> , 1990, 263, 121-126.	1.3	31
101	Liposome mediated in vitro transfection of pancreatic islet cells. <i>Biomedica Biochimica Acta</i> , 1990, 49, 1157-64.	0.1	8
102	Failure of glucose to elicit a normal secretory response in fetal pancreatic beta cells results from glucose insensitivity of the ATP-regulated K <sup>+</sup> channels.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1989, 86, 4505-4509.	3.3	108
103	Glucose regulation of insulin gene expression. <i>Diabète &amp; Métabolisme</i> , 1989, 15, 367-71.	0.3	10
104	Heat-shock treatment of mouse pancreatic islets results in a partial loss of islet cells but no remaining functional impairment among the surviving $\beta$ cells. <i>Journal of Molecular Endocrinology</i> , 1988, 1, 27-31.	1.1	22
105	Stimulation of pancreatic islet beta-cell replication by oncogenes.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1988, 85, 116-120.	3.3	42
106	Mutations in the guinea pig preproglucagon gene are restricted to a specific portion of the prohormone sequence. <i>FEBS Letters</i> , 1986, 203, 25-30.	1.3	62
107	Regulation of RNA metabolism in relation to insulin production and oxidative metabolism in mouse pancreatic islets in vitro. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1986, 887, 58-68.	1.9	6
108	Stimulation of growth hormone synthesis by glucose in islets of Langerhans isolated from transgenic mice. <i>Journal of Biological Chemistry</i> , 1986, 261, 12915-7.	1.6	11

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109	Structure and Evolution of the Insulin Gene. Annual Review of Genetics, 1985, 19, 463-484.	3.2	255
110	Control of insulin gene expression in pancreatic beta-cells and in an insulin-producing cell line, RIN-5F cells. I. Effects of glucose and cyclic AMP on the transcription of insulin mRNA. Journal of Biological Chemistry, 1985, 260, 13585-9.	1.6	125
111	Control of insulin gene expression in pancreatic beta-cells and in an insulin-producing cell line, RIN-5F cells. II. Regulation of insulin mRNA stability. Journal of Biological Chemistry, 1985, 260, 13590-4.	1.6	169
112	The stimulus-secretion coupling of amino acid-induced insulin release. Molecular and Cellular Biochemistry, 1984, 63, 33-7.	1.4	4
113	Effects of glucose, leucine and adenosine on insulin release, $^{45}\text{Ca}^{2+}$ net uptake, NADH/NAD ratios and oxygen consumption of islets isolated from fed and starved mice. Molecular and Cellular Endocrinology, 1983, 30, 51-62.	1.6	11
114	The effects of glibenclamide on rat islet radioactive nucleotide efflux, ATP contents and respiratory rates. Biochemical Pharmacology, 1983, 32, 2903-2908.	2.0	7
115	Streptozotocin-induced Impairment of Islet Cell Metabolism and its Prevention by a Hydroxyl Radical Scavenger and Inhibitors of Poly(ADP-ribose) synthetase. Acta Pharmacologica Et Toxicologica, 1983, 53, 392-400.	0.0	44
116	Respiration and insulin release in mouse pancreatic islets. Biochimica Et Biophysica Acta - Molecular Cell Research, 1982, 721, 178-184.	1.9	23
117	Effects of starvation on oxidative metabolism and insulin release by isolated mouse pancreatic islets. European Journal of Endocrinology, 1982, 101, 227-234.	1.9	10
118	Adenosine uptake by isolated mouse pancreatic islets. Biochemical Pharmacology, 1981, 30, 2075-2080.	2.0	10