

Michael Welsh

List of Publications by Year in descending order

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118
papers

4,715
citations

147566

31
h-index

106150

65
g-index

118
all docs

118
docs citations

118
times ranked

4511
citing authors

#	ARTICLE	IF	CITATIONS
1	<sc>VEGFA</sc> and tumour angiogenesis. Journal of Internal Medicine, 2013, 273, 114-127.	2.7	635
2	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
3	Structure and Evolution of the Insulin Gene. Annual Review of Genetics, 1985, 19, 463-484.	3.2	255
4	Endostatin-induced tyrosine kinase signaling through the Shb adaptor protein regulates endothelial cell apoptosis. Blood, 2000, 95, 3403-3411.	0.6	248
5	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
6	Identification and characterization of VEGF-A-responsive neutrophils expressing CD49d, VEGFR1, and CXCR4 in mice and humans. Blood, 2015, 126, 2016-2026.	0.6	183
7	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
8	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
9	Interleukin-6 Affects Insulin Secretion and Glucose Metabolism of Rat Pancreatic Islets <i>in Vitro</i> *. Endocrinology, 1990, 126, 1288-1294.	1.4	121
10	Failure of glucose to elicit a normal secretory response in fetal pancreatic beta cells results from glucose insensitivity of the ATP-regulated K ⁺ channels.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 4505-4509.	3.3	108
11	Expression of Protein Tyrosine Kinases in Islet Cells: Possible Role of the Flk-1 Receptor for \hat{I}^2 -Cell Maturation from Duct Cells. Growth Factors, 1994, 10, 115-126.	0.5	87
12	Platelet-derived growth factor receptor- \hat{I}^2 promotes early endothelial cell differentiation. Blood, 2006, 108, 1877-1886.	0.6	83
13	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
14	Biochemical and Molecular Actions of Interleukin-1 on Pancreatic \hat{I}^2 -Cells. Autoimmunity, 1991, 10, 241-253.	1.2	79
15	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
16	Interleukin-1 \hat{I}^2 Depletes Insulin Messenger Ribonucleic Acid and Increases the Heat Shock Protein hsp70 in Mouse Pancreatic Islets Without Impairing the Glucose Metabolism*. Endocrinology, 1990, 127, 2290-2297.	1.4	71
17	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
18	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

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19	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
20	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
21	Shb is a ubiquitously expressed Src homology 2 protein. <i>Oncogene</i> , 1994, 9, 19-27.	2.6	54
22	Molecular interactions of the Src homology 2 domain protein Shb with phosphotyrosine residues, tyrosine kinase receptors and Src homology 3 domain proteins. <i>Oncogene</i> , 1995, 10, 1475-83.	2.6	49
23	Metabolism and β -cell function of rat pancreatic islets exposed to human interleukin- 1β in the presence of a high glucose concentration. <i>Immunology Letters</i> , 1990, 26, 245-251.	1.1	44
24	Streptozotocin-induced Impairment of Islet β -Cell Metabolism and its Prevention by a Hydroxyl Radical Scavenger and Inhibitors of Poly(ADP-ribose) synthetase. <i>Acta Pharmacologica Et Toxicologica</i> , 1983, 53, 392-400.	0.0	44
25	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
26	Exposure of pancreatic islets to different alkylating agents decreases mitochondrial DNA content but only streptozotocin induces long-lasting functional impairment of B-cells. <i>Biochemical Pharmacology</i> , 1991, 42, 2275-2282.	2.0	38
27	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
28	Effects of Certain Growth Factors on In Vitro Maturation of Rat Fetal Islet-like Structures. <i>Pancreas</i> , 1996, 12, 334-339.	0.5	36
29	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
30	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
31	Cloning of BSK, a murine FRK homologue with a specific pattern of tissue distribution. <i>Gene</i> , 1995, 152, 239-242.	1.0	32
32	Expression of voltage-gated K ⁺ channels in insulin-producing cells. <i>FEBS Letters</i> , 1990, 263, 121-126.	1.3	31
33	Decreased mitochondrial gene expression in isolated islets of rats injected neonatally with streptozotocin. <i>Diabetologia</i> , 1991, 34, 626-631.	2.9	31
34	Interleukin- 1β Increases the Biosynthesis of the Heat Shock Protein hsp70 and Selectively Decreases the Biosynthesis of five Proteins in rat Pancreatic Islets. <i>Autoimmunity</i> , 1991, 9, 33-40.	1.2	30
35	The Shb adaptor protein causes Src-dependent cell spreading and activation of focal adhesion kinase in murine brain endothelial cells. <i>Cellular Signalling</i> , 2003, 15, 171-179.	1.7	30
36	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

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37	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
38	Isolation of hsp70-binding proteins from bovine muscle. Biochemical and Biophysical Research Communications, 1991, 178, 1-7.	1.0	28
39	Transgenic Mice Expressing Shb Adaptor Protein under the Control of Rat Insulin Promoter Exhibit Altered Viability of Pancreatic Islet Cells. Molecular Medicine, 1999, 5, 169-180.	1.9	28
40	Apoptosis of NIH3T3 cells overexpressing the Src homology 2 domain protein Shb. Oncogene, 1996, 13, 955-61.	2.6	28
41	NGF-Dependent Neurite Outgrowth in PC12 Cells Overexpressing the Src Homology 2-Domain Protein Shb Requires Activation of the Rap1 Pathway. Experimental Cell Research, 2000, 259, 370-377.	1.2	26
42	Shf, a Shb-like Adapter Protein, Is Involved in PDGF- β -Receptor Regulation of Apoptosis. Biochemical and Biophysical Research Communications, 2000, 278, 537-543.	1.0	25
43	<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
44	Respiration and insulin release in mouse pancreatic islets. Biochimica Et Biophysica Acta - Molecular Cell Research, 1982, 721, 178-184.	1.9	23
45	A perfusion protocol for highly efficient transduction of intact pancreatic islets of Langerhans. Diabetologia, 2006, 49, 2388-2391.	2.9	23
46	Heat-shock treatment of mouse pancreatic islets results in a partial loss of islet cells but no remaining functional impairment among the surviving β cells. Journal of Molecular Endocrinology, 1988, 1, 27-31.	1.1	22
47	Genetic factors of importance for β -cell proliferation. Diabetes/metabolism Reviews, 1993, 9, 25-36.	0.2	22
48	Platelet-Derived Growth Factor-Mediated Signaling through the Shb Adaptor Protein: Effects on Cytoskeletal Organization. Experimental Cell Research, 2000, 257, 245-254.	1.2	22
49	Analysis of protein binding to heat shock protein 70 in pancreatic islet cells exposed to elevated temperatures or interleukin 1 beta. Journal of Biological Chemistry, 1991, 266, 9295-8.	1.6	21
50	Mutation of C-Terminal Tyrosine Residues Y497/Y504 of the Src-Family Member Bsk/Iyk Decreases NIH3T3 Cell Proliferation. Growth Factors, 1998, 16, 111-124.	0.5	20
51	Shb promotes blood vessel formation in embryoid bodies by augmenting vascular endothelial growth factor receptor-2 and platelet-derived growth factor receptor- β signaling. Experimental Cell Research, 2005, 308, 381-393.	1.2	19
52	The tyrosine kinase FRK/RAK participates in cytokine-induced islet cell cytotoxicity. Biochemical Journal, 2004, 382, 261-268.	1.7	18
53	Shb deficient mice display an augmented TH2 response in peripheral CD4 ⁺ T cells. BMC Immunology, 2011, 12, 3.	0.9	18
54	Role of Tyrosine Kinase Signaling for β -Cell Replication and Survival. Upsala Journal of Medical Sciences, 2000, 105, 7-15.	0.4	17

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55	Shb links SLP-76 and Vav with the CD3 complex in Jurkat T cells. FEBS Journal, 2002, 269, 3279-3288.	0.2	17
56	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
57	The Src Homology 2 Domain-Containing Adapter Protein B (SHB) Regulates Mouse Oocyte Maturation. PLoS ONE, 2010, 5, e11155.	1.1	17
58	Vascular adaptation to a dysfunctional endothelium as a consequence of Shb deficiency. Angiogenesis, 2012, 15, 469-480.	3.7	17
59	Heterogeneity among RIP-Tag2 insulinomas allows vascular endothelial growth factor-independent tumor expansion as revealed by studies in Shb mutant mice: Implications for tumor angiogenesis. Molecular Oncology, 2012, 6, 333-346.	2.1	17
60	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. Cellular Signalling, 2013, 25, 85-92.	1.7	17
61	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
62	Decrease in insulin-containing secretory granules and mitochondrial gene expression in mouse pancreatic islets maintained in culture following streptozotocin exposure. Vigiliae Christianae, 1991, 60, 337-344.	0.1	16
63	Role of the Bsk/Iyk Non-Receptor Tyrosine Kinase for the Control of Growth and Hormone Production in RINm5F Cells. Growth Factors, 2000, 17, 233-247.	0.5	16
64	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
65	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
66	Vascular dysfunction and increased metastasis of B16F10 melanomas in Shb deficient mice as compared with their wild type counterparts. BMC Cancer, 2015, 15, 234.	1.1	16
67	The role of the Src Homology-2 domain containing protein B (SHB) in β^2 cells. Journal of Molecular Endocrinology, 2016, 56, R21-R31.	1.1	16
68	Leukocyte Differentiation by Histidine-Rich Glycoprotein/Stanniocalcin-2 Complex Regulates Murine Glioma Growth through Modulation of Antitumor Immunity. Molecular Cancer Therapeutics, 2018, 17, 1961-1972.	1.9	16
69	Increased Cytokine-Induced Cytotoxicity of Pancreatic Islet Cells from Transgenic Mice Expressing the Src-like Tyrosine Kinase GTK. Molecular Medicine, 2001, 7, 301-310.	1.9	15
70	Shb Gene Knockdown Increases the Susceptibility of SVR Endothelial Tumor Cells to Apoptotic Stimuli In Vitro and In Vivo. Journal of Investigative Dermatology, 2008, 128, 710-716.	0.3	15
71	Overexpression of the Shb SH2 Domain-Protein in Insulin-Producing Cells Leads to Altered Signaling Through the IRS-1 and IRS-2 Proteins. Molecular Medicine, 2002, 8, 695-704.	1.9	14
72	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

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73	A role of FRK in regulation of embryonal pancreatic beta cell formation. <i>Molecular and Cellular Endocrinology</i> , 2007, 270, 73-78.	1.6	14
74	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
75	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
76	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
77	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
78	Absence of the adaptor protein Shb potentiates the $\text{T}_{\text{H}2}$ helper type 2 response in a mouse model of atopic dermatitis. <i>Immunology</i> , 2014, 143, 33-41.	2.0	12
79	Temporal Dynamics of VEGFA-Induced VEGFR2/FAK Co-Localization Depend on SHB. <i>Cells</i> , 2019, 8, 1645.	1.8	12
80	Endostatin-induced tyrosine kinase signaling through the Shb adaptor protein regulates endothelial cell apoptosis. <i>Blood</i> , 2000, 95, 3403-3411.	0.6	12
81	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. <i>Molecular and Cellular Endocrinology</i> , 1983, 30, 51-62.	1.6	11
82	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
83	Impaired glucose homeostasis in <i>Shb</i> ^{-/-} mice. <i>Journal of Endocrinology</i> , 2009, 203, 271-279.	1.2	11
84	<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
85	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
86	Adenosine uptake by isolated mouse pancreatic islets. <i>Biochemical Pharmacology</i> , 1981, 30, 2075-2080.	2.0	10
87	A Chimera between Platelet-Derived Growth Factor β -Receptor and Fibroblast Growth Factor Receptor-1 Stimulates Pancreatic β -Cell. DNA Synthesis in the Presence of PDGF-BB. <i>Growth Factors</i> , 1992, 6, 93-101.	0.5	10
88	The <i>Cdh5</i> -CreERT2 transgene causes conditional <i>Shb</i> gene deletion in hematopoietic cells with consequences for immune cell responses to tumors. <i>Scientific Reports</i> , 2019, 9, 7548.	1.6	10
89	Effects of starvation on oxidative metabolism and insulin release by isolated mouse pancreatic islets. <i>European Journal of Endocrinology</i> , 1982, 101, 227-234.	1.9	10
90	Glucose regulation of insulin gene expression. <i>Diabète & Métabolisme</i> , 1989, 15, 367-71.	0.3	10

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91	GTK Tyrosine Kinase-induced Alteration of IRS-protein Signalling in Insulin Producing Cells. <i>Molecular Medicine</i> , 2002, 8, 705-713.	1.9	9
92	SHB and angiogenic factors promote ES cell differentiation to insulin-producing cells. <i>Biochemical and Biophysical Research Communications</i> , 2006, 344, 517-524.	1.0	9
93	Liposome mediated in vitro transfection of pancreatic islet cells. <i>Biomedica Biochimica Acta</i> , 1990, 49, 1157-64.	0.1	8
94	The effects of glibenclamide on rat islet radioactive nucleotide efflux, ATP contents and respiratory rates. <i>Biochemical Pharmacology</i> , 1983, 32, 2903-2908.	2.0	7
95	Reduced tumor growth in vivo and increased c-Abl activity in PC3 prostate cancer cells overexpressing the Shb adapter protein. <i>BMC Cancer</i> , 2007, 7, 161.	1.1	7
96	Tumor <i>SHB</i> gene expression affects disease characteristics in human acute myeloid leukemia. <i>Tumor Biology</i> , 2017, 39, 101042831772064.	0.8	7
97	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
98	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
99	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
100	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
101	The stimulus-secretion coupling of amino acid-induced insulin release. <i>Molecular and Cellular Biochemistry</i> , 1984, 63, 33-7.	1.4	4
102	Modulation of Src Homology 3 Proteins by the Proline-Rich Adaptor Protein Shb. <i>Experimental Cell Research</i> , 1997, 231, 269-275.	1.2	4
103	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
104	Role of the Src homology 2 domain-containing protein Shb in murine brain endothelial cell proliferation and differentiation. <i>Cell Growth & Differentiation: the Molecular Biology Journal of the American Association for Cancer Research</i> , 2002, 13, 141-8.	0.8	4
105	A role of the protein Cbl in FGF-2-induced angiogenesis in murine brain endothelial cells. <i>Cellular Signalling</i> , 2005, 17, 1433-1438.	1.7	3
106	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
107	Claes Hellerström and Cartesian diver microrespirometry. <i>Uppsala Journal of Medical Sciences</i> , 2016, 121, 77-80.	0.4	3
108	GTK tyrosine kinase-induced alteration of IRS-protein signalling in insulin producing cells. <i>Molecular Medicine</i> , 2002, 8, 705-13.	1.9	3

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109	Perspectives on Vascular Regulation of Mechanisms Controlling Selective Immune Cell Function in the Tumor Immune Response. International Journal of Molecular Sciences, 2022, 23, 2313.	1.8	3
110	Control of SHB gene expression by protein phosphorylation. Cellular Signalling, 1996, 8, 55-58.	1.7	2
111	The platelet-derived growth factor (PDGF) family of tyrosine kinase receptors: a Kit to fix the beta cell?. Diabetologia, 2012, 55, 2092-2095.	2.9	2
112	VEGF Signal Transduction in Angiogenesis. , 2008, , 205-216.		2
113	Maintenance of hematopoietic stem cell dormancy: yet another role for the macrophage. Stem Cell Investigation, 2016, 3, 46-46.	1.3	1
114	Vascular Endothelial Growth Factor-A-Induced Vascular Permeability and Leukocyte Extravasation. , 2015, , 187-207.		0
115	Absence of the Shb gene in mixed-lineage leukemia MLL-AF9 cells increases latency in mice despite higher proliferation rates in vitro. Experimental Cell Research, 2020, 397, 112368.	1.2	0
116	The Felicitous Success of the Subsection Molecular Oncology of International Journal of Molecular Sciences. International Journal of Molecular Sciences, 2021, 22, 6939.	1.8	0
117	SHB deficient mice display an increased GFR and augmented renal arteriolar contractions to both Adenosine and Ang II. FASEB Journal, 2013, 27, 909.14.	0.2	0
118	The retirement of Editor-in-Chief Arne Andersson, Upsala Journal of Medical Sciences 2006â€“2022: an amazing journey under Arneâ€™s stewardship. Upsala Journal of Medical Sciences, 2022, 127, .	0.4	0