

# Varda Shoshan-Barmatz

## List of Publications by Year in descending order

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93  
papers

8,078  
citations

41258

49  
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48187

88  
g-index

93  
all docs

93  
docs citations

93  
times ranked

6748  
citing authors

#	ARTICLE	IF	CITATIONS
1	The role of the mitochondrial protein VDAC1 in inflammatory bowel disease: a potential therapeutic target. <i>Molecular Therapy</i> , 2022, 30, 726-744.	3.7	35
2	Silencing VDAC1 to Treat Mesothelioma Cancer: Tumor Reprogramming and Altering Tumor Hallmarks. <i>Biomolecules</i> , 2022, 12, 895.	1.8	7
3	Mitochondria and nucleus cross-talk: Signaling in metabolism, apoptosis, and differentiation, and function in cancer. <i>IUBMB Life</i> , 2021, 73, 492-510.	1.5	18
4	SMAC/Diablo controls proliferation of cancer cells by regulating phosphatidylethanolamine synthesis. <i>Molecular Oncology</i> , 2021, 15, 3037-3061.	2.1	6
5	VDAC1 Silencing in Cancer Cells Leads to Metabolic Reprogramming That Modulates Tumor Microenvironment. <i>Cancers</i> , 2021, 13, 2850.	1.7	9
6	Adverse Effects of Metformin From Diabetes to COVID-19, Cancer, Neurodegenerative Diseases, and Aging: Is VDAC1 a Common Target?. <i>Frontiers in Physiology</i> , 2021, 12, 730048.	1.3	22
7	Empty mesoporous silica particles significantly delay disease progression and extend survival in a mouse model of ALS. <i>Scientific Reports</i> , 2020, 10, 20675.	1.6	7
8	VDAC1 at the Intersection of Cell Metabolism, Apoptosis, and Diseases. <i>Biomolecules</i> , 2020, 10, 1485.	1.8	93
9	The VDAC1-based R-Tf-D-LP4 Peptide as a Potential Treatment for Diabetes Mellitus. <i>Cells</i> , 2020, 9, 481.	1.8	15
10	The Mitochondrial Protein VDAC1 at the Crossroads of Cancer Cell Metabolism: The Epigenetic Link. <i>Cancers</i> , 2020, 12, 1031.	1.7	21
11	VDAC1 in the diseased myocardium and the effect of VDAC1-interacting compound on atrial fibrosis induced by hyperaldosteronism. <i>Scientific Reports</i> , 2020, 10, 22101.	1.6	21
12	A VDAC1-Derived N-Terminal Peptide Inhibits Mutant SOD1-VDAC1 Interactions and Toxicity in the SOD1 Model of ALS. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 346.	1.8	23
13	A Mitochondrial VDAC1-Based Peptide Greatly Suppresses Steatosis and NASH-Associated Pathologies in a Mouse Model. <i>Molecular Therapy</i> , 2019, 27, 1848-1862.	3.7	27
14	VDAC1 and the TSPO: Expression, Interactions, and Associated Functions in Health and Disease States. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3348.	1.8	68
15	Rewiring of Cancer Cell Metabolism by Mitochondrial VDAC1 Depletion Results in Time-Dependent Tumor Reprogramming: Glioblastoma as a Proof of Concept. <i>Cells</i> , 2019, 8, 1330.	1.8	18
16	Metabolic Reprogramming Via Silencing of Mitochondrial VDAC1 Expression Encourages Differentiation of Cancer Cells. <i>Molecular Therapy - Nucleic Acids</i> , 2019, 17, 24-37.	2.3	28
17	VDAC oligomers form mitochondrial pores to release mtDNA fragments and promote lupus-like disease. <i>Science</i> , 2019, 366, 1531-1536.	6.0	344
18	Preserving Insulin Secretion in Diabetes by Inhibiting VDAC1 Overexpression and Surface Translocation in $\beta^2$ Cells. <i>Cell Metabolism</i> , 2019, 29, 64-77.e6.	7.2	100

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19	A New Role for the Mitochondrial Pro-apoptotic Protein SMAC/Diablo in Phospholipid Synthesis Associated with Tumorigenesis. <i>Molecular Therapy</i> , 2018, 26, 680-694.	3.7	25
20	Selective induction of cancer cell death by VDAC1-based peptides and their potential use in cancer therapy. <i>Molecular Oncology</i> , 2018, 12, 1077-1103.	2.1	55
21	VDAC1, mitochondrial dysfunction, and Alzheimer's disease. <i>Pharmacological Research</i> , 2018, 131, 87-101.	3.1	153
22	VDAC1 functions in Ca <sup>2+</sup> homeostasis and cell life and death in health and disease. <i>Cell Calcium</i> , 2018, 69, 81-100.	1.1	100
23	Mitochondrial VDAC1 Silencing Leads to Metabolic Rewiring and the Reprogramming of Tumour Cells into Advanced Differentiated States. <i>Cancers</i> , 2018, 10, 499.	1.7	38
24	Targeting Liver Cancer and Associated Pathologies in Mice with a Mitochondrial VDAC1-Based Peptide. <i>Neoplasia</i> , 2018, 20, 594-609.	2.3	57
25	Hypoxic-induced truncation of voltage-dependent anion channel 1 is mediated by both asparagine endopeptidase and calpain 1 activities. <i>Oncotarget</i> , 2018, 9, 12825-12841.	0.8	12
26	VDAC1 as a Player in Mitochondria-Mediated Apoptosis and Target for Modulating Apoptosis. <i>Current Medicinal Chemistry</i> , 2018, 24, 4435-4446.	1.2	50
27	VDAC1 is a molecular target in glioblastoma, with its depletion leading to reprogrammed metabolism and reversed oncogenic properties. <i>Neuro-Oncology</i> , 2017, 19, 951-964.	0.6	55
28	Mitochondrial VDAC, the Na <sup>+</sup> /Ca <sup>2+</sup> Exchanger, and the Ca <sup>2+</sup> Uniporter in Ca <sup>2+</sup> Dynamics and Signaling. <i>Advances in Experimental Medicine and Biology</i> , 2017, 981, 323-347.	0.8	29
29	A molecular signature of lung cancer: potential biomarkers for adenocarcinoma and squamous cell carcinoma. <i>Oncotarget</i> , 2017, 8, 105492-105509.	0.8	23
30	The Mitochondrial Voltage-Dependent Anion Channel 1, Ca <sup>2+</sup> Transport, Apoptosis, and Their Regulation. <i>Frontiers in Oncology</i> , 2017, 7, 60.	1.3	79
31	Voltage-Dependent Anion Channel 1 As an Emerging Drug Target for Novel Anti-Cancer Therapeutics. <i>Frontiers in Oncology</i> , 2017, 7, 154.	1.3	89
32	Editorial: Uncovering the Function of the Mitochondrial Protein VDAC in Health and Disease: From Structure-Function to Novel Therapeutic Strategies. <i>Frontiers in Oncology</i> , 2017, 7, 320.	1.3	5
33	Mitochondrial VDAC1-based peptides: Attacking oncogenic properties in glioblastoma. <i>Oncotarget</i> , 2017, 8, 31329-31346.	0.8	26
34	VDAC1 at the crossroads of cell metabolism, apoptosis and cell stress. <i>Cell Stress</i> , 2017, 1, 11-36.	1.4	101
35	Reducing VDAC1 expression induces a non-apoptotic role for pro-apoptotic proteins in cancer cell differentiation. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 1228-1242.	0.5	29
36	VDAC1-interacting anion transport inhibitors inhibit VDAC1 oligomerization and apoptosis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 1612-1623.	1.9	57

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37	Novel Compounds Targeting the Mitochondrial Protein VDAC1 Inhibit Apoptosis and Protect against Mitochondrial Dysfunction. <i>Journal of Biological Chemistry</i> , 2016, 291, 24986-25003.	1.6	83
38	Novel Biomarker Proteins in Chronic Lymphocytic Leukemia: Impact on Diagnosis, Prognosis and Treatment. <i>PLoS ONE</i> , 2016, 11, e0148500.	1.1	13
39	The Voltage-dependent Anion Channel 1 Mediates Amyloid $\beta^2$ Toxicity and Represents a Potential Target for Alzheimer Disease Therapy. <i>Journal of Biological Chemistry</i> , 2015, 290, 30670-30683.	1.6	109
40	The BH4 Domain of Anti-apoptotic Bcl-XL, but Not That of the Related Bcl-2, Limits the Voltage-dependent Anion Channel 1 (VDAC1)-mediated Transfer of Pro-apoptotic $Ca^{2+}$ Signals to Mitochondria. <i>Journal of Biological Chemistry</i> , 2015, 290, 9150-9161.	1.6	108
41	A New Fungal Diterpene Induces VDAC1-dependent Apoptosis in Bax/Bak-deficient Cells. <i>Journal of Biological Chemistry</i> , 2015, 290, 23563-23578.	1.6	42
42	The mitochondrial voltage-dependent anion channel 1 in tumor cells. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 2547-2575.	1.4	194
43	Silencing VDAC1 Expression by siRNA Inhibits Cancer Cell Proliferation and Tumor Growth In Vivo. <i>Molecular Therapy - Nucleic Acids</i> , 2014, 3, e159.	2.3	110
44	$Ca^{2+}$ -mediated regulation of VDAC1 expression levels is associated with cell death induction. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2014, 1843, 2270-2281.	1.9	77
45	Purification of VDAC1 from Rat Liver Mitochondria. <i>Cold Spring Harbor Protocols</i> , 2014, 2014, pdb.prot073130.	0.2	19
46	Reconstitution of Purified VDAC1 into a Lipid Bilayer and Recording of Channel Conductance. <i>Cold Spring Harbor Protocols</i> , 2014, 2014, pdb.prot073148.	0.2	7
47	The role of calcium in VDAC1 oligomerization and mitochondria-mediated apoptosis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2013, 1833, 1745-1754.	1.9	90
48	Oligomerization of the Mitochondrial Protein VDAC1. <i>Progress in Molecular Biology and Translational Science</i> , 2013, 117, 303-334.	0.9	56
49	VDAC1: from structure to cancer therapy. <i>Frontiers in Oncology</i> , 2012, 2, 164.	1.3	159
50	Structure-based analysis of VDAC1: N-terminus location, translocation, channel gating and association with anti-apoptotic proteins. <i>Biochemical Journal</i> , 2012, 444, 475-485.	1.7	87
51	Mediation of the Antiapoptotic Activity of Bcl-xL Protein upon Interaction with VDAC1 Protein. <i>Journal of Biological Chemistry</i> , 2012, 287, 23152-23161.	1.6	143
52	Structure-based Analysis of VDAC1 Protein. <i>Journal of Biological Chemistry</i> , 2012, 287, 2179-2190.	1.6	73
53	Expression of a Truncated Active Form of VDAC1 in Lung Cancer Associates with Hypoxic Cell Survival and Correlates with Progression to Chemotherapy Resistance. <i>Cancer Research</i> , 2012, 72, 2140-2150.	0.4	64
54	VDAC, a multi-functional mitochondrial protein as a pharmacological target. <i>Mitochondrion</i> , 2012, 12, 24-34.	1.6	206

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55	VDAC1 cysteine residues: topology and function in channel activity and apoptosis. <i>Biochemical Journal</i> , 2010, 427, 445-454.	1.7	43
56	Apoptosis is regulated by the VDAC1 N-terminal region and by VDAC oligomerization: release of cytochrome c, AIF and Smac/Diablo. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1281-1291.	0.5	123
57	Voltage-dependent Anion Channel 1-based Peptides Interact with Bcl-2 to Prevent Antiapoptotic Activity. <i>Journal of Biological Chemistry</i> , 2010, 285, 6053-6062.	1.6	139
58	Oligomerization of the Mitochondrial Protein Voltage-Dependent Anion Channel Is Coupled to the Induction of Apoptosis. <i>Molecular and Cellular Biology</i> , 2010, 30, 5698-5709.	1.1	202
59	Downregulation of voltage-dependent anion channel-1 expression by RNA interference prevents cancer cell growth in vivo. <i>Cancer Biology and Therapy</i> , 2010, 9, 1046-1052.	1.5	60
60	VDAC, a multi-functional mitochondrial protein regulating cell life and death. <i>Molecular Aspects of Medicine</i> , 2010, 31, 227-285.	2.7	607
61	Misfolded Mutant SOD1 Directly Inhibits VDAC1 Conductance in a Mouse Model of Inherited ALS. <i>Neuron</i> , 2010, 67, 575-587.	3.8	256
62	Voltage-dependent Anion Channel 1-based Peptides Interact with Hexokinase to Prevent Its Anti-apoptotic Activity. <i>Journal of Biological Chemistry</i> , 2009, 284, 3946-3955.	1.6	141
63	The VDAC1 N-terminus is essential both for apoptosis and the protective effect of anti-apoptotic proteins. <i>Journal of Cell Science</i> , 2009, 122, 1906-1916.	1.2	201
64	Key regions of VDAC1 functioning in apoptosis induction and regulation by hexokinase. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2009, 1787, 421-430.	0.5	114
65	Uncovering the role of VDAC in the regulation of cell life and death. <i>Journal of Bioenergetics and Biomembranes</i> , 2008, 40, 183-191.	1.0	159
66	Mapping the ruthenium red-binding site of the voltage-dependent anion channel-1. <i>Cell Calcium</i> , 2008, 43, 196-204.	1.1	43
67	Hexokinase-I Protection against Apoptotic Cell Death Is Mediated via Interaction with the Voltage-dependent Anion Channel-1. <i>Journal of Biological Chemistry</i> , 2008, 283, 13482-13490.	1.6	226
68	An N-terminal nucleotide-binding site in VDAC1: Involvement in regulating mitochondrial function. <i>Journal of Cellular Physiology</i> , 2007, 212, 551-561.	2.0	27
69	Retina expresses a novel variant of the ryanodine receptor. <i>European Journal of Neuroscience</i> , 2007, 26, 3113-3125.	1.2	19
70	Localization of the voltage-dependent anion channel-1 Ca <sup>2+</sup> -binding sites. <i>Cell Calcium</i> , 2007, 41, 235-244.	1.1	66
71	Nucleotide-binding Sites in the Voltage-dependent Anion Channel. <i>Journal of Biological Chemistry</i> , 2006, 281, 5938-5946.	1.6	54
72	The expression level of the voltage-dependent anion channel controls life and death of the cell. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 5787-5792.	3.3	218

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73	A Photoactivable Probe for Calcium Binding Proteins. <i>Chemistry and Biology</i> , 2005, 12, 1169-1178.	6.2	25
74	Novel ryanodine-binding properties in mammalian retina. <i>International Journal of Biochemistry and Cell Biology</i> , 2005, 37, 1681-1695.	1.2	14
75	Fluoxetine (Prozac) interaction with the mitochondrial voltage-dependent anion channel and protection against apoptotic cell death. <i>FEBS Letters</i> , 2005, 579, 5105-5110.	1.3	85
76	Oligomeric states of the voltage-dependent anion channel and cytochrome c release from mitochondria. <i>Biochemical Journal</i> , 2005, 386, 73-83.	1.7	194
77	Glutamate Interacts with VDAC and Modulates Opening of the Mitochondrial Permeability Transition Pore. <i>Journal of Bioenergetics and Biomembranes</i> , 2004, 36, 179-186.	1.0	45
78	Subcellular localization of VDAC in mitochondria and ER in the cerebellum. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2004, 1657, 105-114.	0.5	97
79	In self-defence: hexokinase promotes voltage-dependent anion channel closure and prevents mitochondria-mediated apoptotic cell death. <i>Biochemical Journal</i> , 2004, 377, 347-355.	1.7	363
80	The Voltage-Dependent Anion Channel: Characterization, Modulation, and Role in Mitochondrial Function in Cell Life and Death. <i>Cell Biochemistry and Biophysics</i> , 2003, 39, 279-292.	0.9	180
81	Retinal voltage-dependent anion channel: characterization and cellular localization. <i>Investigative Ophthalmology and Visual Science</i> , 2002, 43, 2097-104.	3.3	25
82	Calcium binding and translocation by the voltage-dependent anion channel: a possible regulatory mechanism in mitochondrial function. <i>Biochemical Journal</i> , 2001, 358, 147-155.	1.7	303
83	Calcium binding and translocation by the voltage-dependent anion channel: a possible regulatory mechanism in mitochondrial function. <i>Biochemical Journal</i> , 2001, 358, 147.	1.7	224
84	Modulation of the voltage-dependent anion channel (VDAC) by glutamate. <i>Journal of Bioenergetics and Biomembranes</i> , 2000, 32, 571-583.	1.0	87
85	Characterization of sheep brain ryanodine receptor ATP binding site by photoaffinity labeling. <i>FEBS Letters</i> , 1999, 455, 251-256.	1.3	3
86	Modification of ryanodine receptor/Ca <sup>2+</sup> release channel with dinitrofluorobenzene. <i>Biochemical Journal</i> , 1999, 342, 239-248.	1.7	7
87	Dicyclohexylcarbodiimide interaction with the voltage-dependent anion channel from sarcoplasmic reticulum. <i>FEBS Journal</i> , 1998, 253, 627-636.	0.2	23
88	Chemical Modification of Ryanodine Receptor/Ca <sup>2+</sup> Release Channel activity. , 1998, , 203-226.		1
89	VDAC/porin is present in sarcoplasmic reticulum from skeletal muscle. <i>FEBS Letters</i> , 1996, 386, 205-210.	1.3	113
90	Ryanodine receptor/calcium release channel conformations as reflected in the different effects of propranolol on its ryanodine binding and channel activity. <i>Biochemical Journal</i> , 1996, 315, 377-383.	1.7	11

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91	The interaction of local anesthetics with the ryanodine receptor of the sarcoplasmic reticulum. <i>Journal of Membrane Biology</i> , 1993, 133, 171-81.	1.0	38
92	Characterization and photoaffinity labeling of the ATP binding site of the ryanodine receptor from skeletal muscle. <i>FEBS Journal</i> , 1993, 213, 147-154.	0.2	38
93	The effect of local anaesthetics on the ryanodine receptor/ $Ca^{2+}$ release channel of brain microsomal membranes. <i>FEBS Letters</i> , 1993, 328, 77-81.	1.3	19