

# Vito De Pinto

## List of Publications by Year in descending order

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104  
papers

5,307  
citations

76326

40  
h-index

88630

70  
g-index

109  
all docs

109  
docs citations

109  
times ranked

4480  
citing authors

#	ARTICLE	IF	CITATIONS
1	VDAC, a multi-functional mitochondrial protein regulating cell life and death. <i>Molecular Aspects of Medicine</i> , 2010, 31, 227-285.	6.4	607
2	VDAC1 selectively transfers apoptotic Ca <sup>2+</sup> signals to mitochondria. <i>Cell Death and Differentiation</i> , 2012, 19, 267-273.	11.2	255
3	VDAC isoforms in mammals. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 1466-1476.	2.6	204
4	Genetic Reduction of Mammalian Target of Rapamycin Ameliorates Alzheimer's Disease-Like Cognitive and Pathological Deficits by Restoring Hippocampal Gene Expression Signature. <i>Journal of Neuroscience</i> , 2014, 34, 7988-7998.	3.6	176
5	The mitochondrial permeability transition pore may comprise VDAC molecules. <i>FEBS Letters</i> , 1993, 330, 206-210.	2.8	159
6	Voltage-dependent anion-selective channel (VDAC) in the plasma membrane. <i>FEBS Letters</i> , 2010, 584, 1793-1799.	2.8	144
7	Characterization of human VDAC isoforms: A peculiar function for VDAC3?. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1268-1275.	1.0	142
8	VDAC1 Is a Transplasma Membrane NADH-Ferricyanide Reductase. <i>Journal of Biological Chemistry</i> , 2004, 279, 4811-4819.	3.4	141
9	Peptide-specific antibodies and proteases as probes of the transmembrane topology of the bovine heart mitochondrial porin. <i>Biochemistry</i> , 1991, 30, 10191-10200.	2.5	125
10	Porin pores of mitochondrial outer membranes from high and low eukaryotic cells: biochemical and biophysical characterization. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 1987, 894, 109-119.	1.0	120
11	Outer membrane VDAC1 controls permeability transition of the inner mitochondrial membrane in cellulo during stress-induced apoptosis. <i>Cell Research</i> , 2009, 19, 1363-1376.	12.0	120
12	VDAC1 as Pharmacological Target in Cancer and Neurodegeneration: Focus on Its Role in Apoptosis. <i>Frontiers in Chemistry</i> , 2018, 6, 108.	3.6	113
13	Porin Is Present in the Plasma Membrane Where It Is Concentrated in Caveolae and Caveolae-related Domains. <i>Journal of Biological Chemistry</i> , 1999, 274, 29607-29612.	3.4	112
14	Prediction of the transmembrane regions of beta-barrel membrane proteins with a neural network-based predictor. <i>Protein Science</i> , 2001, 10, 779-787.	7.6	111
15	Voltage-dependent Anion-selective Channels VDAC2 and VDAC3 Are Abundant Proteins in Bovine Outer Dense Fibers, a Cytoskeletal Component of the Sperm Flagellum. <i>Journal of Biological Chemistry</i> , 2004, 279, 15281-15288.	3.4	103
16	Interaction of non-classical detergents with the mitochondrial porin. A new purification procedure and characterization of the pore-forming unit. <i>FEBS Journal</i> , 1989, 183, 179-187.	0.2	102
17	A simple and rapid method for the purification of the mitochondrial porin from mammalian tissues. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1987, 905, 499-502.	2.6	92
18	A 3D model of the voltage-dependent anion channel (VDAC). <i>FEBS Letters</i> , 2002, 520, 1-7.	2.8	87

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19	The 35 kDa DCCD-binding protein from pig heart mitochondria is the mitochondrial porin. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1985, 813, 230-242.	2.6	86
20	Novel Compounds Targeting the Mitochondrial Protein VDAC1 Inhibit Apoptosis and Protect against Mitochondrial Dysfunction. <i>Journal of Biological Chemistry</i> , 2016, 291, 24986-25003.	3.4	83
21	VDAC3 as a sensor of oxidative state of the intermembrane space of mitochondria: the putative role of cysteine residue modifications. <i>Oncotarget</i> , 2016, 7, 2249-2268.	1.8	78
22	Structure of the voltage dependent anion channel: state of the art. <i>Journal of Bioenergetics and Biomembranes</i> , 2008, 40, 139-147.	2.3	67
23	Determination of the Conformation of the Human VDAC1 N-Terminal Peptide, a Protein Moiety Essential for the Functional Properties of the Pore. <i>ChemBioChem</i> , 2007, 8, 744-756.	2.6	66
24	Role of cysteines in mammalian VDAC isoforms' function. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 1219-1227.	1.0	64
25	Transmembrane arrangement of mitochondrial porin or voltage-dependent anion channel (VDAC). <i>Journal of Bioenergetics and Biomembranes</i> , 1992, 24, 21-26.	2.3	63
26	Pore formation by the mitochondrial porin of rat brain in lipid bilayer membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1986, 860, 268-276.	2.6	62
27	Double-stranded DNA can be translocated across a planar membrane containing purified mitochondrial porin. <i>FASEB Journal</i> , 1998, 12, 495-502.	0.5	62
28	Voltage-dependent anion-selective channel 1 (VDAC1) is a mitochondrial protein, rediscovered as a novel enzyme in the plasma membrane. <i>International Journal of Biochemistry and Cell Biology</i> , 2005, 37, 277-282.	2.8	62
29	The Voltage-Dependent Anion Selective Channel 1 (VDAC1) Topography in the Mitochondrial Outer Membrane as Detected in Intact Cell. <i>PLoS ONE</i> , 2013, 8, e81522.	2.5	62
30	Recombinant Human Voltage Dependent Anion Selective Channel Isoform 3 (hVDAC3) Forms Pores with a Very Small Conductance. <i>Cellular Physiology and Biochemistry</i> , 2014, 34, 842-853.	1.6	60
31	Swapping of the N-terminus of VDAC1 with VDAC3 restores full activity of the channel and confers anti-aging features to the cell. <i>FEBS Letters</i> , 2010, 584, 2837-2844.	2.8	58
32	Molecular and functional characterization of VDAC2 purified from mammal spermatozoa. <i>Bioscience Reports</i> , 2009, 29, 351-362.	2.4	56
33	Extramitochondrial porin: facts and hypotheses. <i>Journal of Bioenergetics and Biomembranes</i> , 2000, 32, 79-89.	2.3	55
34	Carnosinase Levels in Aging Brain: Redox State Induction and Cellular Stress Response. <i>Antioxidants and Redox Signaling</i> , 2009, 11, 2759-2775.	5.4	55
35	Further investigation on the high-conductance ion channel of the inner membrane of mitochondria. <i>Journal of Bioenergetics and Biomembranes</i> , 1989, 21, 485-496.	2.3	53
36	Hexokinase I N-terminal based peptide prevents the VDAC1-SOD1 G93A interaction and re-establishes ALS cell viability. <i>Scientific Reports</i> , 2016, 6, 34802.	3.3	53

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37	Charged Residues Distribution Modulates Selectivity of the Open State of Human Isoforms of the Voltage Dependent Anion-Selective Channel. <i>PLoS ONE</i> , 2014, 9, e103879.	2.5	45
38	Anti-Cancer Compounds Targeted to VDAC: Potential and Perspectives. <i>Current Medicinal Chemistry</i> , 2018, 24, 4447-4469.	2.4	44
39	Characterization of the mitochondrial porin from <i>Drosophila melanogaster</i> . <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1989, 987, 1-7.	2.6	42
40	Novel Aspects of the Electrophysiology of Mitochondrial Porin. <i>Biochemical and Biophysical Research Communications</i> , 1998, 243, 258-263.	2.1	42
41	VDAC3 As a Potential Marker of Mitochondrial Status Is Involved in Cancer and Pathology. <i>Frontiers in Oncology</i> , 2016, 6, 264.	2.8	41
42	A lower affinity to cytosolic proteins reveals VDAC3 isoform-specific role in mitochondrial biology. <i>Journal of General Physiology</i> , 2020, 152, .	1.9	36
43	Renaissance of VDAC: New Insights on a Protein Family at the Interface between Mitochondria and Cytosol. <i>Biomolecules</i> , 2021, 11, 107.	4.0	34
44	Deletion of $\beta$ -strands 9 and 10 converts VDAC1 voltage-dependence in an asymmetrical process. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2013, 1827, 793-805.	1.0	32
45	Post-translational modifications of VDAC1 and VDAC2 cysteines from rat liver mitochondria. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 806-816.	1.0	32
46	Cysteine Oxidations in Mitochondrial Membrane Proteins: The Case of VDAC Isoforms in Mammals. <i>Frontiers in Cell and Developmental Biology</i> , 2020, 8, 397.	3.7	32
47	Purification and properties of the voltage-dependent anion channel of the outer mitochondrial membrane. <i>Journal of Bioenergetics and Biomembranes</i> , 1989, 21, 417-425.	2.3	29
48	Geographically Widespread Swordfish Barcode Stock Identification: A Case Study of Its Application. <i>PLoS ONE</i> , 2011, 6, e25516.	2.5	29
49	High resolution mass spectrometry characterization of the oxidation pattern of methionine and cysteine residues in rat liver mitochondria voltage-dependent anion selective channel 3 (VDAC3). <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 301-311.	2.6	29
50	New functions of an old protein: the eukaryotic porin or voltage dependent anion selective channel (VDAC). <i>Italian Journal of Biochemistry</i> , 2003, 52, 17-24.	0.3	29
51	Presence of a voltage-dependent anion channel 1 in the rat postsynaptic density fraction. <i>NeuroReport</i> , 1999, 10, 443-447.	1.2	28
52	Functional Characterization of a Second Porin Isoform in <i>Drosophila melanogaster</i> . <i>Journal of Biological Chemistry</i> , 2004, 279, 25364-25373.	3.4	28
53	Live cell interactome of the human voltage dependent anion channel 3 (VDAC3) revealed in HeLa cells by affinity purification tag technique. <i>Molecular BioSystems</i> , 2014, 10, 2134-2145.	2.9	28
54	Intracellular localization and isoform expression of the voltage-dependent anion channel (VDAC) in normal and dystrophic skeletal muscle. <i>Journal of Muscle Research and Cell Motility</i> , 2000, 21, 433-442.	2.0	27

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55	Two Structurally Different Rituximab-Specific CD20 Mimotope Peptides Reveal That Rituximab Recognizes Two Different CD20-Associated Epitopes. <i>Journal of Immunology</i> , 2009, 182, 416-423.	0.8	27
56	Overexpression of human SOD1 in VDAC1-less yeast restores mitochondrial functionality modulating beta-barrel outer membrane protein genes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 789-798.	1.0	27
57	Cloning and chromosomal localization of a cDNA encoding a mitochondrial porin from <i>Drosophila melanogaster</i> . <i>FEBS Letters</i> , 1996, 384, 9-13.	2.8	25
58	Deletion of Voltage-Dependent Anion Channel 1 knocks mitochondria down triggering metabolic rewiring in yeast. <i>Cellular and Molecular Life Sciences</i> , 2020, 77, 3195-3213.	5.4	25
59	Purification of the active mitochondrial phosphate carrier by affinity chromatography with an organomercurial agarose column. <i>FEBS Letters</i> , 1982, 148, 103-106.	2.8	24
60	Mapping of the Human Voltage-Dependent Anion Channel Isoforms 1 and 2 Reconsidered. <i>Biochemical and Biophysical Research Communications</i> , 1999, 255, 707-710.	2.1	24
61	Characterization of pore-forming activity in liver mitochondria from <i>Anguilla anguilla</i> . Two porins in mitochondria?. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1991, 1061, 279-286.	2.6	22
62	Genetic structure of the killifish <i>Aphanius fasciatus</i> , Nardo 1827 (Teleostei, Cyprinodontidae), results of mitochondrial DNA analysis. <i>Journal of Fish Biology</i> , 2008, 72, 1154-1173.	1.6	22
63	Voltage Dependent Anion Channel 3 (VDAC3) protects mitochondria from oxidative stress. <i>Redox Biology</i> , 2022, 51, 102264.	9.0	22
64	Characterization of SH groups in porin of bovine heart mitochondria. Porin cysteines are localized in the channel walls. <i>FEBS Journal</i> , 1991, 202, 903-911.	0.2	21
65	Expression and localization in spermatozoa of the mitochondrial porin isoform 2 in <i>Drosophila melanogaster</i> . <i>Biochemical and Biophysical Research Communications</i> , 2006, 346, 665-670.	2.1	21
66	$\gamma$ VDAC2, the second mitochondrial porin isoform of <i>Saccharomyces cerevisiae</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 270-279.	1.0	21
67	VDAC Genes Expression and Regulation in Mammals. <i>Frontiers in Physiology</i> , 2021, 12, 708695.	2.8	21
68	Purification of the glutamine synthetase II isozyme of <i>Drosophila melanogaster</i> and structural and functional comparison of glutamine synthetases I and II. <i>Biochemical Genetics</i> , 1987, 25, 821-836.	1.7	20
69	The <i>Drosophila melanogaster</i> gene for the NADH:ubiquinone oxidoreductase acyl carrier protein: developmental expression analysis and evidence for alternatively spliced forms. <i>Molecular Genetics and Genomics</i> , 1999, 261, 690-697.	2.4	20
70	The N-Terminal Peptides of the Three Human Isoforms of the Mitochondrial Voltage-Dependent Anion Channel Have Different Helical Propensities. <i>Biochemistry</i> , 2015, 54, 5646-5656.	2.5	19
71	Identification of nuclear genes encoding mitochondrial proteins: isolation of a collection of <i>D. melanogaster</i> cDNAs homologous to sequences in the Human Gene Index database. <i>Molecular Genetics and Genomics</i> , 1999, 261, 64-70.	2.4	18
72	Larval population structure of <i>Engraulis encrasicolus</i> in the Strait of Sicily as revealed by morphometric and genetic analysis. <i>Fisheries Oceanography</i> , 2015, 24, 135-149.	1.7	18

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73	Characterization of the Human Porin Isoform 1 (hVDAC1) Gene by Amplification on the Whole Human Genome: A Tool for Porin Deficiency Analysis. <i>Biochemical and Biophysical Research Communications</i> , 2000, 270, 787-792.	2.1	17
74	Sequence and expression pattern of the <i>Drosophila melanogaster</i> mitochondrial porin gene: evidence of a conserved protein domain between fly and mouse. <i>FEBS Letters</i> , 1998, 430, 327-332.	2.8	15
75	A computational study of ion current modulation in hVDAC3 induced by disulfide bonds. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2016, 1858, 813-823.	2.6	15
76	Is the Secret of VDAC Isoforms in Their Gene Regulation? Characterization of Human VDAC Genes Expression Profile, Promoter Activity, and Transcriptional Regulators. <i>International Journal of Molecular Sciences</i> , 2020, 21, 7388.	4.1	15
77	NRF-1 and HIF-1 $\alpha$ contribute to modulation of human VDAC1 gene promoter during starvation and hypoxia in HeLa cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2020, 1861, 148289.	1.0	14
78	A High Resolution Mass Spectrometry Study Reveals the Potential of Disulfide Formation in Human Mitochondrial Voltage-Dependent Anion Selective Channel Isoforms (hVDACs). <i>International Journal of Molecular Sciences</i> , 2020, 21, 1468.	4.1	14
79	High levels of the mitochondrial large ribosomal subunit protein 40 prevent loss of mitochondrial DNA in null <i>mmf1</i> <i>Saccharomyces cerevisiae</i> cells. <i>Yeast</i> , 2004, 21, 539-548.	1.7	13
80	Voltage-Dependent Anion Selective Channel Isoforms in Yeast: Expression, Structure, and Functions. <i>Frontiers in Physiology</i> , 2021, 12, 675708.	2.8	13
81	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.	1.8	12
82	Glucose ameliorates the metabolic profile and mitochondrial function of platelet concentrates during storage in autologous plasma. <i>Blood Transfusion</i> , 2013, 11, 61-70.	0.4	12
83	Purification and genetic control of NAD-dependent glutamate dehydrogenase from <i>Drosophila melanogaster</i> . <i>Biochemical Genetics</i> , 1982, 20, 449-460.	1.7	11
84	The Mitochondrial Italian Human Proteome Project Initiative (mt-HPP). <i>Molecular BioSystems</i> , 2013, 9, 1984-92.	2.9	10
85	Demonstration and characterization of human cardiac porin: A voltage-dependent channel involved in adenine nucleotide movement across the outer mitochondrial membrane. <i>Biochemical Medicine and Metabolic Biology</i> , 1989, 42, 161-169.	0.7	8
86	Positive residues involved in the voltage-gating of the mitochondrial porin-channel are localized in the external moiety of the pore. <i>FEBS Letters</i> , 1990, 274, 122-126.	2.8	8
87	Porin isoform 2 has a different localization in <i>Drosophila melanogaster</i> ovaries than porin 1. <i>Journal of Bioenergetics and Biomembranes</i> , 2008, 40, 219-226.	2.3	8
88	Recombinant yeast VDAC 2: a comparison of electrophysiological features with the native form. <i>FEBS Open Bio</i> , 2019, 9, 1184-1193.	2.3	8
89	VDACs Post-Translational Modifications Discovery by Mass Spectrometry: Impact on Their Hub Function. <i>International Journal of Molecular Sciences</i> , 2021, 22, 12833.	4.1	8
90	Characterization of channel-forming activity in muscle biopsy from a porin-deficient human patient. <i>Journal of Bioenergetics and Biomembranes</i> , 2000, 32, 585-593.	2.3	7

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91	Schizosaccharomyces pombe Pmf1p is structurally and functionally related to Mmf1p of Saccharomyces cerevisiae. Yeast, 2002, 19, 703-711.	1.7	7
92	Folded Structure and Membrane Affinity of the N-Terminal Domain of the Three Human Isoforms of the Mitochondrial Voltage-Dependent Anion-Selective Channel. ACS Omega, 2018, 3, 11415-11425.	3.5	7
93	Generation of artificial channels by multimerization of $\beta$ -strands from natural porin. Biological Chemistry, 2011, 392, 617-24.	2.5	6
94	Cell-free electrophysiology of human VDACs incorporated into nanodiscs: An improved method. Biophysical Reports, 2021, 1, 100002.	1.2	6
95	$\beta$ -Synuclein A53T Promotes Mitochondrial Proton Gradient Dissipation and Depletion of the Organelle Respiratory Reserve in a Neuroblastoma Cell Line. Life, 2022, 12, 894.	2.4	4
96	Evaluation of biotinylated cells as a source of antigens for characterization of their molecular profile. International Journal of Clinical and Laboratory Research, 1998, 28, 246-251.	1.0	3
97	Gene Family Expression and Multitopological Localization of Eukaryotic Porin/Voltage Dependent Anion-Selective Channel (VDAC): Intracellular Trafficking and Alternative Splicing. , 2005, , 309-337.		1
98	Editorial: VDAC Structure and Function: An Up-to-Date View. Frontiers in Physiology, 2022, 13, 871586.	2.8	1
99	Conformational Properties and Functional Role of VDAC N-Terminal Peptide. , 2006, , 625-626.		0
100	Investigations on N-Terminal Chimeras of VDAC Isoforms. Biophysical Journal, 2011, 100, 250a-251a.	0.5	0
101	The Overexpression of Superoxide Dismutase 1 Restores Growth Defect in a Porin1-Less Yeast Strain and Improves Mitochondrial Metabolism. Biophysical Journal, 2015, 108, 611a.	0.5	0
102	Unexpected Modifications of Cysteines in VDAC3: Indication that VDAC3 may Signal the Mitochondrial Intermembrane Redox State. Biophysical Journal, 2016, 110, 19a.	0.5	0
103	Neurospora crassatox-1 Gene Encodes a pH- and Temperature-Tolerant Mini-Cellulase. Journal of Agricultural and Food Chemistry, 2016, 64, 4751-4757.	5.2	0
104	Electrophysiological Characterization of two Novel Ion Channels of Mitochondria. Biophysical Journal, 2016, 110, 609a.	0.5	0