Michail Nomikos

List of Publications by Year in descending order

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53	1,589	236833	302012
papers	citations	25 h-index	39 g-index

53	53	53	1076
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Role of Phospholipase C-Î¶ Domains in Ca2+-dependent Phosphatidylinositol 4,5-Bisphosphate Hydrolysis and Cytoplasmic Ca2+ Oscillations. Journal of Biological Chemistry, 2005, 280, 31011-31018.	1.6	133
2	Phospholipase CÎ¶ rescues failed oocyte activation in a prototype of male factor infertility. Fertility and Sterility, 2013, 99, 76-85.	0.5	91
3	Binding of Phosphoinositide-specific Phospholipase C-Î¶ (PLC-Î¶) to Phospholipid Membranes. Journal of Biological Chemistry, 2007, 282, 16644-16653.	1.6	83
4	Starting a new life: Sperm PLCâ€zeta mobilizes the Ca²⁺ signal that induces egg activation and embryo development. BioEssays, 2012, 34, 126-134.	1.2	78
5	Sperm PLCÎ¶: From structure to Ca²⁺ oscillations, egg activation and therapeutic potential. FEBS Letters, 2013, 587, 3609-3616.	1.3	74
6	PLCÎ¶ causes Ca²⁺oscillations in mouse eggs by targeting intracellular and not plasma membrane PI(4,5)P₂. Molecular Biology of the Cell, 2012, 23, 371-380.	0.9	69
7	Sperm-induced Ca2+ release during egg activation in mammals. Biochemical and Biophysical Research Communications, 2014, 450, 1204-1211.	1.0	66
8	Phospholipase CÎ¶ binding to PtdIns(4,5)P2 requires the XY-linker region. Journal of Cell Science, 2011, 124, 2582-2590.	1.2	63
9	Novel regulation of PLCÎ¶ activity via its XY-linker. Biochemical Journal, 2011, 438, 427-432.	1.7	59
10	Sperm-specific post-acrosomal WW-domain binding protein (PAWP) does not cause Ca2+ release in mouse oocytes. Molecular Human Reproduction, 2014, 20, 938-947.	1.3	57
11	Rescue of failed oocyte activation after ICSI in a mouse model of male factor infertility by recombinant phospholipase CÎ¶. Molecular Human Reproduction, 2015, 21, 783-791.	1.3	57
12	Phospholipase C-Î¶-induced Ca2+ oscillations cause coincident cytoplasmic movements in human oocytes that failed to fertilize after intracytoplasmic sperm injection. Fertility and Sterility, 2012, 97, 742-747.	0.5	55
13	Male infertility-linked point mutation disrupts the Ca2+ oscillation-inducing and PIP2 hydrolysis activity of sperm PLCÎ¶. Biochemical Journal, 2011, 434, 211-217.	1.7	53
14	Expression of sperm PLCÎ¶ and clinical outcomes of ICSI-AOA in men affected by globozoospermia due to DPY19L2 deletion. Reproductive BioMedicine Online, 2018, 36, 348-355.	1.1	47
15	Functional disparity between human PAWP and PLCÎ¶ in the generation of Ca²⁺oscillations for oocyte activation. Molecular Human Reproduction, 2015, 21, 702-710.	1.3	42
16	Essential Role of Sperm-Specific PLC-Zeta in Egg Activation and Male Factor Infertility: An Update. Frontiers in Cell and Developmental Biology, 2020, 8, 28.	1.8	40
17	Essential Role of the EF-hand Domain in Targeting Sperm Phospholipase CÎ¶ to Membrane Phosphatidylinositol 4,5-Bisphosphate (PIP2). Journal of Biological Chemistry, 2015, 290, 29519-29530.	1.6	35
18	Chimeras of sperm PLCÂ reveal disparate protein domain functions in the generation of intracellular Ca2+ oscillations in mammalian eggs at fertilization. Molecular Human Reproduction, 2013, 19, 852-864.	1.3	34

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19	Human PLCÂ exhibits superior fertilization potency over mouse PLCÂ in triggering the Ca2+ oscillations required for mammalian oocyte activation. Molecular Human Reproduction, 2014, 20, 489-498.	1.3	31
20	Phospholipase C zeta and calcium oscillations at fertilisation: The evidence, applications, and further questions. Advances in Biological Regulation, 2018, 67, 148-162.	1.4	31
21	Novel signalling mechanism and clinical applications of sperm-specific PLCÎ¶. Biochemical Society Transactions, 2015, 43, 371-376.	1.6	30
22	PLCÎ¶ or PAWP: revisiting the putative mammalian sperm factor that triggers egg activation and embryogenesis. Molecular Human Reproduction, 2015, 21, 383-388.	1.3	30
23	Divergent effect of mammalian PLCÎ¶ in generating Ca2+ oscillations in somatic cells compared with eggs. Biochemical Journal, 2011, 438, 545-553.	1.7	28
24	Distinctive malfunctions of calmodulin mutations associated with heart RyR2-mediated arrhythmic disease. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 2168-2176.	1.1	28
25	Male infertility-linked point mutation reveals a vital binding role for the C2 domain of sperm PLCÎ¶. Biochemical Journal, 2017, 474, 1003-1016.	1.7	28
26	Antigen unmasking enhances visualization efficacy of the oocyte activation factor, phospholipase C zeta, in mammalian sperm. Molecular Human Reproduction, 2017, 23, 54-67.	1.3	26
27	The role and mechanism of action of sperm PLC-zeta in mammalian fertilisation. Biochemical Journal, 2017, 474, 3659-3673.	1.7	26
28	Altered RyR2 regulation by the calmodulin F90L mutation associated with idiopathic ventricular fibrillation and early sudden cardiac death. FEBS Letters, 2014, 588, 2898-2902.	1.3	25
29	Is PAWP the "real" sperm factor?. Asian Journal of Andrology, 2015, 17, 444.	0.8	24
30	Ca2+ dynamics in oocytes from naturally-aged mice. Scientific Reports, 2016, 6, 19357.	1.6	16
31	Phospholipase C zeta profiles are indicative of optimal sperm parameters and fertilisation success in patients undergoing fertility treatment. Andrology, 2020, 8, 1143-1159.	1.9	15
32	The dynamics of MAPK inactivation at fertilization in mouse eggs. Journal of Cell Science, 2014, 127, 2749-60.	1.2	13
33	Targeting inflammatory components in neuropathic pain: The analgesic effect of thymulin related peptide. Neuroscience Letters, 2019, 702, 61-65.	1.0	13
34	Thermodynamic study of the BRCT domain of BARD1 and its interaction with the -pSER-X-X-Phe- motif-containing BRIP1 peptide. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 1908-1916.	1.1	12
35	Mutations in <scp>PLC</scp>Î´1 associated with hereditary leukonychia display divergent <scp>PIP</scp>2 hydrolytic function. FEBS Journal, 2016, 283, 4502-4514.	2.2	12
36	The structure and function relationship of sperm PLC-zeta. Reproduction, 2022, , .	1.1	11

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37	Construct Validity of an Instrument for Assessment of Reflective Writing-Based Portfolios of Medical Students . Advances in Medical Education and Practice, 2020, Volume 11, 397-404.	0.7	9
38	Hypertrophic cardiomyopathy-linked variants of cardiac myosin-binding protein C3 display altered molecular properties and actin interaction. Biochemical Journal, 2018, 475, 3933-3948.	1.7	8
39	Arrhythmogenic calmodulin E105A mutation alters cardiac RyR2 regulation leading to cardiac dysfunction in zebrafish. Annals of the New York Academy of Sciences, 2019, 1448, 19-29.	1.8	7
40	ATP interacts with the CPVT mutation-associated central domain of the cardiac ryanodine receptor. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 4426-4432.	1.1	6
41	Functional characterization of human myosinâ€binding protein C3 variants associated with hypertrophic cardiomyopathy reveals exonâ€specific cardiac phenotypes in zebrafish model. Journal of Cellular Physiology, 2020, 235, 7870-7888.	2.0	6
42	Health educators' professional agency in negotiating their problemâ€based learning (PBL) facilitator roles: Q study. Medical Education, 2022, 56, 847-857.	1.1	5
43	Thermal and chemical denaturation of the BRCT functional module of human 53BP1. International Journal of Biological Macromolecules, 2011, 49, 297-304.	3.6	4
44	Advancing male age differentially alters levels and localization patterns of PLCzeta in sperm and testes from different mouse strains. Asian Journal of Andrology, 2021, 23, 178.	0.8	4
45	Studies on the Essential Intramolecular Interaction Between the A1 and A2 Domains of von Willebrand Factor. Protein and Peptide Letters, 2013, 20, 231-240.	0.4	1
46	Fundamental Role for Sperm Phospholipase CÎ¶ in Mammalian Fertilization. , 0, , 177-192.		1
47	Medical Studentsâ€™ Perspectives on an Assessment of Reflective Portfolios [Response to Letter] . Advances in Medical Education and Practice, 2020, Volume 11, 495-496.	0.7	1
48	Increased de novo DNA Methylation Enzymes in Sperm of Individuals with Varicocele. Cell Journal, 2021, 23, 389-396.	0.2	1
49	Pyridoxine non-responsive p.R336C mutation alters the molecular properties of cystathionine beta-synthase leading to severe homocystinuria phenotype. Biochimica Et Biophysica Acta - General Subjects, 2022, 1866, 130148.	1.1	1
50	Rescue of Failed Oocyte Activation After ICSI in a Mouse Model of Male Factor Infertility by Recombinant Phospholipase CÎ¶. Obstetrical and Gynecological Survey, 2016, 71, 159-160.	0.2	0
51	Development of an in-house COVID-19 serology ELISA Test. Journal of Emergency Medicine, Trauma and Acute Care, 2021, 2021, .	0.1	0
52	Where Life Begins: Sperm PLCÎ¶ in Mammalian Egg Activation and Implications in Male Infertility. , 2014, , 247-262.		0
53	Increased de novo DNA Methylation Enzymes in Sperm of Individuals with Varicocele.. Cell Journal, 2021, 23, 722.	0.2	0