

# Michail Nomikos

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50  
papers

1,247  
citations

22  
h-index

34  
g-index

53  
ext. papers

1,360  
ext. citations

3.8  
avg. IF

4.36  
L-index

#	Paper	IF	Citations
50	Role of phospholipase C-zeta domains in Ca <sup>2+</sup> -dependent phosphatidylinositol 4,5-bisphosphate hydrolysis and cytoplasmic Ca <sup>2+</sup> oscillations. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 31011-8	5.4	114
49	Binding of phosphoinositide-specific phospholipase C-zeta (PLC-zeta) to phospholipid membranes: potential role of an unstructured cluster of basic residues. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 16644-53	5.4	80
48	Phospholipase C $\zeta$ rescues failed oocyte activation in a prototype of male factor infertility. <i>Fertility and Sterility</i> , <b>2013</b> , 99, 76-85	4.8	73
47	Starting a new life: sperm PLC-zeta mobilizes the Ca <sup>2+</sup> signal that induces egg activation and embryo development: an essential phospholipase C with implications for male infertility. <i>BioEssays</i> , <b>2012</b> , 34, 126-34	4.1	68
46	PLC $\zeta$ causes Ca(2+) oscillations in mouse eggs by targeting intracellular and not plasma membrane PI(4,5)P(2). <i>Molecular Biology of the Cell</i> , <b>2012</b> , 23, 371-80	3.5	61
45	Sperm PLC $\zeta$ from structure to Ca <sup>2+</sup> oscillations, egg activation and therapeutic potential. <i>FEBS Letters</i> , <b>2013</b> , 587, 3609-16	3.8	59
44	Sperm-induced Ca <sup>2+</sup> release during egg activation in mammals. <i>Biochemical and Biophysical Research Communications</i> , <b>2014</b> , 450, 1204-11	3.4	54
43	Phospholipase C $\zeta$ binding to PtdIns(4,5)P <sub>2</sub> requires the XY-linker region. <i>Journal of Cell Science</i> , <b>2011</b> , 124, 2582-90	5.3	53
42	Sperm-specific post-acrosomal WW-domain binding protein (PAWP) does not cause Ca <sup>2+</sup> release in mouse oocytes. <i>Molecular Human Reproduction</i> , <b>2014</b> , 20, 938-47	4.4	48
41	Rescue of failed oocyte activation after ICSI in a mouse model of male factor infertility by recombinant phospholipase C $\zeta$ . <i>Molecular Human Reproduction</i> , <b>2015</b> , 21, 783-91	4.4	47
40	Male infertility-linked point mutation disrupts the Ca <sup>2+</sup> oscillation-inducing and PIP(2) hydrolysis activity of sperm PLC $\zeta$ . <i>Biochemical Journal</i> , <b>2011</b> , 434, 211-7	3.8	46
39	Novel regulation of PLC $\zeta$ activity via its XY-linker. <i>Biochemical Journal</i> , <b>2011</b> , 438, 427-32	3.8	45
38	Phospholipase C $\zeta$ -induced Ca <sup>2+</sup> oscillations cause coincident cytoplasmic movements in human oocytes that failed to fertilize after intracytoplasmic sperm injection. <i>Fertility and Sterility</i> , <b>2012</b> , 97, 742-7	4.8	42
37	Functional disparity between human PAWP and PLC $\zeta$ in the generation of Ca <sup>2+</sup> oscillations for oocyte activation. <i>Molecular Human Reproduction</i> , <b>2015</b> , 21, 702-10	4.4	32
36	Expression of sperm PLC $\zeta$ and clinical outcomes of ICSI-AOA in men affected by globozoospermia due to DPY19L2 deletion. <i>Reproductive BioMedicine Online</i> , <b>2018</b> , 36, 348-355	4	31
35	Chimeras of sperm PLC $\zeta$ reveal disparate protein domain functions in the generation of intracellular Ca <sup>2+</sup> oscillations in mammalian eggs at fertilization. <i>Molecular Human Reproduction</i> , <b>2013</b> , 19, 852-64	4.4	30
34	Human PLC $\zeta$ exhibits superior fertilization potency over mouse PLC $\zeta$ in triggering the Ca(2+) oscillations required for mammalian oocyte activation. <i>Molecular Human Reproduction</i> , <b>2014</b> , 20, 489-98	4.4	27

33	Divergent effect of mammalian PLC $\beta$ in generating Ca $^{2+}$ oscillations in somatic cells compared with eggs. <i>Biochemical Journal</i> , <b>2011</b> , 438, 545-53	3.8	25
32	PLC $\beta$ PAWP: revisiting the putative mammalian sperm factor that triggers egg activation and embryogenesis. <i>Molecular Human Reproduction</i> , <b>2015</b> , 21, 383-8	4.4	24
31	Essential Role of the EF-hand Domain in Targeting Sperm Phospholipase C $\zeta$ to Membrane Phosphatidylinositol 4,5-Bisphosphate (PIP2). <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 29519-30	5.4	23
30	Novel signalling mechanism and clinical applications of sperm-specific PLC $\beta$ . <i>Biochemical Society Transactions</i> , <b>2015</b> , 43, 371-6	5.1	23
29	Distinctive malfunctions of calmodulin mutations associated with heart RyR2-mediated arrhythmic disease. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2015</b> , 1850, 2168-76	4	22
28	Phospholipase C zeta and calcium oscillations at fertilisation: The evidence, applications, and further questions. <i>Advances in Biological Regulation</i> , <b>2018</b> , 67, 148-162	6.2	20
27	Male infertility-linked point mutation reveals a vital binding role for the C2 domain of sperm PLC $\beta$ . <i>Biochemical Journal</i> , <b>2017</b> , 474, 1003-1016	3.8	19
26	Antigen unmasking enhances visualization efficacy of the oocyte activation factor, phospholipase C zeta, in mammalian sperm. <i>Molecular Human Reproduction</i> , <b>2017</b> , 23, 54-67	4.4	18
25	Is PAWP the "real" sperm factor?. <i>Asian Journal of Andrology</i> , <b>2015</b> , 17, 444-6	2.8	18
24	Essential Role of Sperm-Specific PLC-Zeta in Egg Activation and Male Factor Infertility: An Update. <i>Frontiers in Cell and Developmental Biology</i> , <b>2020</b> , 8, 28	5.7	17
23	The role and mechanism of action of sperm PLC-zeta in mammalian fertilisation. <i>Biochemical Journal</i> , <b>2017</b> , 474, 3659-3673	3.8	16
22	Altered RyR2 regulation by the calmodulin F90L mutation associated with idiopathic ventricular fibrillation and early sudden cardiac death. <i>FEBS Letters</i> , <b>2014</b> , 588, 2898-902	3.8	16
21	Ca(2+) dynamics in oocytes from naturally-aged mice. <i>Scientific Reports</i> , <b>2016</b> , 6, 19357	4.9	12
20	The dynamics of MAPK inactivation at fertilization in mouse eggs. <i>Journal of Cell Science</i> , <b>2014</b> , 127, 2749-60	3.5	12
19	Mutations in PLC $\beta$ associated with hereditary leukonychia display divergent PIP2 hydrolytic function. <i>FEBS Journal</i> , <b>2016</b> , 283, 4502-4514	5.7	12
18	Thermodynamic study of the BRCT domain of BARD1 and its interaction with the -pSER-X-X-Phe-motif-containing BRIP1 peptide. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , <b>2010</b> , 1804, 1908-16	4	9
17	Targeting inflammatory components in neuropathic pain: The analgesic effect of thymulin related peptide. <i>Neuroscience Letters</i> , <b>2019</b> , 702, 61-65	3.3	9
16	Phospholipase C zeta profiles are indicative of optimal sperm parameters and fertilisation success in patients undergoing fertility treatment. <i>Andrology</i> , <b>2020</b> , 8, 1143-1159	4.2	7

15	Hypertrophic cardiomyopathy-linked variants of cardiac myosin-binding protein C3 display altered molecular properties and actin interaction. <i>Biochemical Journal</i> , <b>2018</b> , 475, 3933-3948	3.8	7
14	ATP interacts with the CPVT mutation-associated central domain of the cardiac ryanodine receptor. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2013</b> , 1830, 4426-32	4	6
13	Functional characterization of human myosin-binding protein C3 variants associated with hypertrophic cardiomyopathy reveals exon-specific cardiac phenotypes in zebrafish model. <i>Journal of Cellular Physiology</i> , <b>2020</b> , 235, 7870-7888	7	5
12	Thermal and chemical denaturation of the BRCT functional module of human 53BP1. <i>International Journal of Biological Macromolecules</i> , <b>2011</b> , 49, 297-304	7.9	4
11	Construct Validity of an Instrument for Assessment of Reflective Writing-Based Portfolios of Medical Students. <i>Advances in Medical Education and Practice</i> , <b>2020</b> , 11, 397-404	1.5	3
10	Arrhythmogenic calmodulin E105A mutation alters cardiac RyR2 regulation leading to cardiac dysfunction in zebrafish. <i>Annals of the New York Academy of Sciences</i> , <b>2019</b> , 1448, 19-29	6.5	2
9	Fundamental Role for Sperm Phospholipase C $\eta$ in Mammalian Fertilization	177-192	1
8	Studies on the essential intramolecular interaction between the A1 and A2 domains of von Willebrand factor. <i>Protein and Peptide Letters</i> , <b>2013</b> , 20, 231-40	1.9	1
7	Increased de novo DNA Methylation Enzymes in Sperm of Individuals with Varicocele. <i>Cell Journal</i> , <b>2021</b> , 23, 389-396	2.4	1
6	Medical Students' Perspectives on an Assessment of Reflective Portfolios [Response to Letter]. <i>Advances in Medical Education and Practice</i> , <b>2020</b> , 11, 495-496	1.5	1
5	Advancing male age differentially alters levels and localization patterns of PLC $\zeta$ in sperm and testes from different mouse strains. <i>Asian Journal of Andrology</i> , <b>2021</b> , 23, 178-187	2.8	1
4	Where Life Begins: Sperm PLC $\eta$ in Mammalian Egg Activation and Implications in Male Infertility	<b>2014</b> , 247-262	
3	Rescue of Failed Oocyte Activation After ICSI in a Mouse Model of Male Factor Infertility by Recombinant Phospholipase C $\eta$	<i>Obstetrical and Gynecological Survey</i> , <b>2016</b> , 71, 159-160	2.4
2	Pyridoxine non-responsive R336C mutation alters the molecular properties of cystathionine beta-synthase leading to severe homocystinuria phenotype.. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2022</b> , 130148	4	
1	Increased de novo DNA Methylation Enzymes in Sperm of Individuals with Varicocele.. <i>Cell Journal</i> , <b>2021</b> , 23, 722	2.4	