# Stephen B Shears

List of Publications by Year
in descending order

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| 217 | 10,199 | 31976 | 43889 |
|---|---|---|---|
| papers | citations | 53 h-index | 91 g-index |

| 242 | 242 | 242 | 5246 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Essential Role of Phosphoinositide Metabolism in Synaptic Vesicle Recycling. Cell, 1999, 99, 179-188. | 28.9 | 760 |
| 2 | A Salmonella inositol polyphosphatase acts in conjunction with other bacterial effectors to promote host cell actin cytoskeleton rearrangements and bacterial internalization. Molecular Microbiology, 2001, 39, 248-260. | 2.5 | 348 |
| 3 | Stepwise enzymatic dephosphorylation of inositol 1,4,5-trisphosphate to inositol in liver. Nature, 1984, 312, 374-376. | 27.8 | 340 |
| 4 | Metabolism of the inositol phosphates produced upon receptor activation. Biochemical Journal, 1989, 260, 313-324. | 3.7 | 322 |
| 5 | Protection against Alzheimer's disease with apoE â˜2. Lancet, The, 1994, 343, 1432-1433. | 13.7 | 215 |
| 6 | Long-term uncoupling of chloride secretion from intracellular calcium levels by Ins(3,4,5,6)P4. Nature, 1994, 371, 711-714. | 27.8 | 197 |
| 7 | Activation of Ca2+ entry into acinar cells by a non-phosphorylatable inositol trisphosphate. Nature, 1991, 352, 162-165. | 27.8 | 192 |
| 8 | Assessing the omnipotence of inositol hexakisphosphate. Cellular Signalling, 2001, 13, 151-158. | 3.6 | 180 |
| 9 | The Inositol Hexakisphosphate Kinase Family. Journal of Biological Chemistry, 2000, 275, 24686-24692. | 3.4 | 167 |
| 10 | How versatile are inositol phosphate kinases?. Biochemical Journal, 2004, 377, 265-280. | 3.7 | 166 |
| 11 | The versatility of inositol phosphates as cellular signals. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 1998, 1436, 49-67. | 2.4 | 162 |
| 12 | Metabolism of <scp>d</scp>-myo-inositol 1,3,4,5-tetrakisphosphate by rat liver, including the synthesis of a novel isomer of myo-inositol tetrakisphosphate. Biochemical Journal, 1987, 246, 139-147. | 3.7 | 158 |
| 13 | Inhibition of Clathrin Assembly by High Affinity Binding of Specific Inositol Polyphosphates to the Synapse-specific Clathrin Assembly Protein AP-3. Journal of Biological Chemistry, 1995, 270, 1564-1568. | 3.4 | 153 |
| 14 | A novel context for the `MutT' module, a guardian of cell integrity, in a diphosphoinositol polyphosphate phosphohydrolase. EMBO Journal, 1998, 17, 6599-6607. | 7.8 | 151 |
| 15 | Inositol phosphates and cell signaling: new views of InsP5 and InsP6. Trends in Biochemical Sciences, 1993, 18, 53-56. | 7.5 | 136 |
| 16 | Inositol polyphosphate multikinase (ArgRIII) determines nuclear mRNA export inSaccharomyces cerevisiae. FEBS Letters, 2000, 468, 28-32. | 2.8 | 131 |
| 17 | Diphosphoinositol Polyphosphates: Metabolic Messengers?. Molecular Pharmacology, 2009, 76, 236-252. | 2.3 | 131 |
| 18 | The Diadenosine Hexaphosphate Hydrolases fromSchizosaccharomyces pombe and Saccharomyces cerevisiae Are Homologues of the Human Diphosphoinositol Polyphosphate Phosphohydrolase. Journal of Biological Chemistry, 1999, 274, 21735-21740. | 3.4 | 125 |

| # | Article | IF | Citations |
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| 19 | Structural basis for an inositol pyrophosphate kinase surmounting phosphate crowding. Nature Chemical Biology, 2012, 8, 111-116. | 8.0 | 123 |
| 20 | Dephosphorylation of myo-inositol 1,4,5-trisphosphate and myo-inositol 1,3,4-triphosphate. Biochemical Journal, 1987, 242, 393-402. | 3.7 | 119 |
| 21 | Structural Analysis and Detection of Biological Inositol Pyrophosphates Reveal That the Family of VIP/Diphosphoinositol Pentakisphosphate Kinases Are 1/3-Kinases. Journal of Biological Chemistry, 2009, 284, 1863-1872. | 3.4 | 119 |
| 22 | Turnover of inositol pentakisphosphates, inositol hexakisphosphate and diphosphoinositol polyphosphates in primary cultured hepatocytes. Biochemical Journal, 1993, 293, 583-590. | 3.7 | 116 |
| 23 | In Saccharomyces cerevisiae, the Inositol Polyphosphate Kinase Activity of Kcs1p Is Required for Resistance to Salt Stress, Cell Wall Integrity, and Vacuolar Morphogenesis. Journal of Biological Chemistry, 2002, 277, 23755-23763. | 3.4 | 110 |
| 24 | Purification, Sequencing, and Molecular Identification of a Mammalian PP-InsP5 Kinase That Is Activated When Cells Are Exposed to Hyperosmotic Stress. Journal of Biological Chemistry, 2007, 282, 30763-30775. | 3.4 | 109 |
| 25 | Inositol 3,4,5,6-Tetrakisphosphate Inhibits the Calmodulin-dependent Protein Kinase II-activated Chloride Conductance in T84 Colonic Epithelial Cells. Journal of Biological Chemistry, 1996, 271, 14092-14097. | 3.4 | 108 |
| 26 | Cystic Fibrosis Airway Epithelial Ca2+ Signaling. Journal of Biological Chemistry, 2005, 280, 10202-10209. | 3.4 | 104 |
| 27 | Inositol pyrophosphates: Why so many phosphates?. Advances in Biological Regulation, 2015, 57, 203-216. | 2.3 | 101 |
| 28 | D-myo-Inositol 1,4,5,6-tetrakisphosphate produced in human intestinal epithelial cells in response to Salmonella invasion inhibits phosphoinositide 3-kinase signaling pathways. Proceedings of the National Academy of Sciences of the United States of America, 1997, 94, 14456-14460. | 7.1 | 98 |
| 29 | Intimate connections: Inositol pyrophosphates at the interface of metabolic regulation and cell signaling. Journal of Cellular Physiology, 2018, 233, 1897-1912. | 4.1 | 90 |
| 30 | A Bacterial Homolog of a Eukaryotic Inositol Phosphate Signaling Enzyme Mediates Cross-kingdom Dialog in the Mammalian Gut. Cell Reports, 2014, 6, 646-656. | 6.4 | 88 |
| 31 | Regulation of AP-3 Function by Inositides. Journal of Biological Chemistry, 1997, 272, 6393-6398. | 3.4 | 86 |
| 32 | Biological variability in the structures of diphosphoinositol polyphosphates in Dictyostelium discoideum and mammalian cells. Biochemical Journal, 1997, 327, 553-560. | 3.7 | 85 |
| 33 | Discovery of Molecular and Catalytic Diversity among Human Diphosphoinositol-Polyphosphate Phosphohydrolases. Journal of Biological Chemistry, 2000, 275, 12730-12736. | 3.4 | 85 |
| 34 | Molecular cloning and expression of a rat hepatic multiple inositol polyphosphate phosphatase. Biochemical Journal, 1997, 328, 75-81. | 3.7 | 78 |
| 35 | Changes in Phosphatidylinositol Metabolism in Response to Hyperosmotic Stress in Daucus carota L. Cells Grown in Suspension Culture. Plant Physiology, 1993, 103, 637-647. | 4.8 | 72 |
| 36 | Control of XPR1-dependent cellular phosphate efflux by InsP <sub>8</sub> is an exemplar for functionally-exclusive inositol pyrophosphate signaling. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3568-3574. | 7.1 | 70 |

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| 37 | Localization of a high-affinity inositol 1,4,5-trisphosphate/inositol 1,4,5,6-tetrakisphosphate binding domain to the pleckstrin homology module of a new 130 kDa protein: characterization of the determinants of structural specificity. Biochemical Journal, 1996, 318, 561-568. | 3.7 | 69 |
| 38 | Analysis of inositol phosphate metabolism by capillary electrophoresis electrospray ionization mass spectrometry. Nature Communications, 2020, 11, 6035. | 12.8 | 69 |
| 39 | Human Genome-Wide RNAi Screen Identifies an Essential Role for Inositol Pyrophosphates in Type-I Interferon Response. PLoS Pathogens, 2014, 10, e1003981. | 4.7 | 68 |
| 40 | The Effects of Mastoparan on the Carrot Cell Plasma Membrane Polyphosphoinositide Phospholipase C. Plant Physiology, 1995, 107, 845-856. | 4.8 | 67 |
| 41 | PPIP5K1 modulates ligand competition between diphosphoinositol polyphosphates and PtdIns(3,4,5)P3 for polyphosphoinositide-binding domains. Biochemical Journal, 2013, 453, 413-426. | 3.7 | 67 |
| 42 | Understanding inositol pyrophosphate metabolism and function: Kinetic characterization of the DIPPs. FEBS Letters, 2013, 587, 3464-3470. | 2.8 | 66 |
| 43 | Synthesis of Densely Phosphorylated Bisâ€1,5â€Diphosphoâ€myoâ€Inositol Tetrakisphosphate and its Enantiomer by Bidirectional Pâ€Anhydride Formation. Angewandte Chemie - International Edition, 2014, 53, 9508-9511. | 13.8 | 66 |
| 44 | Multitasking in signal transduction by a promiscuous human Ins(3,4,5,6)P4 1-kinase/Ins(1,3,4)P3 5/6-kinase. Biochemical Journal, 2000, 351, 551-555. | 3.7 | 65 |
| 45 | Regulation of a Human Chloride Channel. Journal of Biological Chemistry, 2001, 276, 18673-18680. | 3.4 | 65 |
| 46 | Signaling by Higher Inositol Polyphosphates. Journal of Biological Chemistry, 2004, 279, 43378-43381. | 3.4 | 64 |
| 47 | Switching between humoral and cellular immune responses in Drosophila is guided by the cytokine GBP. Nature Communications, 2014, 5, 4628. | 12.8 | 64 |
| 48 | Targeted Deletion of Minpp1 Provides New Insight into the Activity of Multiple Inositol Polyphosphate Phosphatase In Vivo. Molecular and Cellular Biology, 2000, 20, 6496-6507. | 2.3 | 63 |
| 49 | Synthesis and Metabolism of Bis-diphosphoinositol Tetrakisphosphate in Vitro and in Vivo. Journal of Biological Chemistry, 1995, 270, 10489-10497. | 3.4 | 62 |
| 50 | KO of 5-InsP <sub>7</sub> kinase activity transforms the HCT116 colon cancer cell line into a hypermetabolic, growth-inhibited phenotype. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11968-11973. | 7.1 | 62 |
| 51 | Ca2+ transport and Ca2+-dependent ATP hydrolysis by Golgi vesicles from lactating rat mammary glands. Biochemical Journal, 1985, 226, 741-748. | 3.7 | 60 |
| 52 | Regulation of Ins(3,4,5,6)P4 Signaling by a Reversible Kinase/Phosphatase. Current Biology, 2002, 12, 477-482. | 3.9 | 60 |
| 53 | Integration of Inositol Phosphate Signaling Pathways via Human ITPK1. Journal of Biological Chemistry, 2007, 282, 28117-28125. | 3.4 | 58 |
| 54 | Cellular Energetic Status Supervises the Synthesis of Bis-Diphosphoinositol Tetrakisphosphate Independently of AMP-Activated Protein Kinase. Molecular Pharmacology, 2008, 74, 527-536. | 2.3 | 58 |

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| 55 | The Significance of the Bifunctional Kinase/Phosphatase Activities of Diphosphoinositol Pentakisphosphate Kinases (PPIP5Ks) for Coupling Inositol Pyrophosphate Cell Signaling to Cellular Phosphate Homeostasis. Journal of Biological Chemistry, 2017, 292, 4544-4555. | 3.4 | 57 |
| 56 | Synthetic Inositol Phosphate Analogs Reveal that PPIP5K2 Has a Surface-Mounted Substrate Capture Site that Is a Target for Drug Discovery. Chemistry and Biology, 2014, 21, 689-699. | 6.0 | 56 |
| 57 | IP6K structure and the molecular determinants of catalytic specificity in an inositol phosphate kinase family. Nature Communications, 2014, 5, 4178. | 12.8 | 55 |
| 58 | Turnover of bis-diphosphoinositol tetrakisphosphate in a smooth muscle cell line is regulated by beta 2-adrenergic receptors through a cAMP-mediated, A-kinase-independent mechanism. EMBO Journal, 1998, 17, 1710-1716. | 7.8 | 54 |
| 59 | Regulation of Ca2+-dependent Clâ¯conductance in a human colonic epithelial cell line (T84): cross-talk between Ins(3,4,5,6)P4and protein phosphatases. Journal of Physiology, 1998, 510, 661-673. | 2.9 | 54 |
| 60 | Asp1 from Schizosaccharomyces pombe Binds a [2Fe-2S]<sup>2+</sup> Cluster Which Inhibits Inositol Pyrophosphate 1-Phosphatase Activity. Biochemistry, 2015, 54, 6462-6474. | 2.5 | 51 |
| 61 | Inositol 1:2(cyclic),4,5-trisphosphate is not a major product of inositol phospholipid metabolism in vasopressin-stimulated WRK1 cells. Biochemical Journal, 1988, 252, 1-5. | 3.7 | 50 |
| 62 | A Novel, Phospholipase C-independent Pathway of Inositol 1,4,5-Trisphosphate Formation in Dictyostelium and Rat Liver. Journal of Biological Chemistry, 1995, 270, 29724-29731. | 3.4 | 49 |
| 63 | Inositol 1,3,4-Trisphosphate Acts in Vivo as a Specific Regulator of Cellular Signaling by Inositol 3,4,5,6-Tetrakisphosphate. Journal of Biological Chemistry, 1999, 274, 18973-18980. | 3.4 | 49 |
| 64 | The interaction of coatomer with inositol polyphosphates is conserved in Saccharomyces cerevisiae. Biochemical Journal, 1995, 310, 279-284. | 3.7 | 48 |
| 65 | Signal transduction during environmental stress: InsP8 operates within highly restricted contexts. Cellular Signalling, 2005, 17, 1533-1541. | 3.6 | 48 |
| 66 | Receptor-dependent compartmentalization of PPIP5K1, a kinase with a cryptic polyphosphoinositide binding domain. Biochemical Journal, 2011, 434, 415-426. | 3.7 | 48 |
| 67 | Regulation of the metabolism of 1,2-diacyglycerols and inositol phasphates that respond to receptor activation. , 1991, 49, 79-104. | | 44 |
| 68 | myo-Inositol 3,4,5,6-Tetrakisphosphate Inhibits an Apical Calcium-activated Chloride Conductance in Polarized Monolayers of a Cystic Fibrosis Cell Line. Journal of Biological Chemistry, 2000, 275, 26906-26913. | 3.4 | 44 |
| 69 | Cloning and expression of a cDNA encoding human inositol 1,4,5-trisphosphate 3-kinase C. Biochemical Journal, 2000, 352, 343-351. | 3.7 | 44 |
| 70 | Intracellular localization of human Ins(1,3,4,5,6)P5 2-kinase. Biochemical Journal, 2007, 408, 335-345. | 3.7 | 43 |
| 71 | The influence of thyroxine administered in vivo on the transmembrane protonic electrochemical potential difference in rat liver mitochondria. Biochemical Journal, 1979, 178, 505-507. | 3.1 | 42 |
| 72 | Site-directed Mutagenesis of Diphosphoinositol Polyphosphate Phosphohydrolase, a Dual Specificity NUDT Enzyme That Attacks Diadenosine Polyphosphates and Diphosphoinositol Polyphosphates. Journal of Biological Chemistry, 1999, 274, 35434-35440. | 3.4 | 42 |

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| 73 | The human and rat forms of multiple inositol polyphosphate phosphatase: functional homology with a histidine acid phosphatase up-regulated during endochondral ossification. FEBS Letters, 1999, 442, 99-104. | 2.8 | 42 |
| 74 | Diphosphoinositol Polyphosphates: The Final Frontier for Inositide Research?. Biological Chemistry, 1999, 380, 945-951. | 2.5 | 41 |
| 75 | Preferential localization of rat liver d-myo-inositol 1,4,5-trisphosphate/1,3,4,5-tetrakisphosphate 5-phosphatase in bile-canalicular plasma membrane and â€˜lateâ€™ endosomal vesicles. Biochemical Journal, 1988, 256, 363-369. | 3.7 | 39 |
| 76 | Ins(3,4,5,6)P4 specifically inhibits a receptor-mediated Ca2+-dependent Cl- current in CFPAC-1 cells. American Journal of Physiology - Cell Physiology, 1997, 272, C1160-C1168. | 4.6 | 39 |
| 77 | Expanding coincident signaling by PTEN through its inositol 1,3,4,5,6-pentakisphosphate 3-phosphatase activity. FEBS Letters, 2001, 499, 6-10. | 2.8 | 39 |
| 78 | Inositol Pentakis- and Hexakisphosphate Metabolism Adds Versatility to the Actions of Inositol Polyphosphates Novel Effects on Ion Channels and Protein Traffic. Sub-Cellular Biochemistry, 1996, 26, 187-226. | 2.4 | 39 |
| 79 | Defining Signal Transduction by Inositol Phosphates. Sub-Cellular Biochemistry, 2012, 59, 389-412. | 2.4 | 39 |
| 80 | Phosphatidylinositol and inositol phosphate metabolism. Journal of Cell Science, 2001, 114, 2207-2208. | 2.0 | 39 |
| 81 | An Adjacent Pair of Human NUDT Genes on Chromosome X Are Preferentially Expressed in Testis and Encode Two New Isoforms of Diphosphoinositol Polyphosphate Phosphohydrolase. Journal of Biological Chemistry, 2002, 277, 32730-32738. | 3.4 | 38 |
| 82 | Dephosphorylation of 2,3-bisphosphoglycerate by MIPP expands the regulatory capacity of the Rapoportâ€“Luebering glycolytic shunt. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5998-6003. | 7.1 | 38 |
| 83 | The kinetic properties of a human PPIP5K reveal that its kinase activities are protected against the consequences of a deteriorating cellular bioenergetic environment. Bioscience Reports, 2013, 33, e00022. | 2.4 | 38 |
| 84 | Inhibition of Inositol Polyphosphate Kinases by Quercetin and Related Flavonoids: A Structureâ€“Activity Analysis. Journal of Medicinal Chemistry, 2019, 62, 1443-1454. | 6.4 | 38 |
| 85 | Determination of mitochondrial calcium content in hepatocytes by a rapid cellular fractionation technique. Vasopressin stimulates mitochondrial Ca2+ uptake. Biochemical Journal, 1984, 220, 417-421. | 3.7 | 37 |
| 86 | Inositol Pyrophosphate Profiling of Two HCT116 Cell Lines Uncovers Variation in InsP8 Levels. PLoS ONE, 2016, 11, e0165286. | 2.5 | 37 |
| 87 | Mutations in Diphosphoinositol-Pentakisphosphate Kinase PPIP5K2 are associated with hearing loss in human and mouse. PLoS Genetics, 2018, 14, e1007297. | 3.5 | 37 |
| 88 | Avian multiple inositol polyphosphate phosphatase is an active phytase that can be engineered to help ameliorate the planet's â€œphosphate crisisâ€. Journal of Biotechnology, 2006, 126, 248-259. | 3.8 | 36 |
| 89 | Cytokine signaling through Drosophila Mthl10 ties lifespan to environmental stress. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 13786-13791. | 7.1 | 36 |
| 90 | Metabolic and signaling properties of an Itpk gene family in Glycine max. FEBS Letters, 2008, 582, 1853-1858. | 2.8 | 35 |

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| 91 | An Expanded Biological Repertoire for Ins(3,4,5,6)P4 through its Modulation of ClC-3 Function. Current Biology, 2008, 18, 1600-1605. | 3.9 | 35 |
| 92 | PPIP5K2 and PCSK1 are Candidate Genetic Contributors to Familial Keratoconus. Scientific Reports, 2019, 9, 19406. | 3.3 | 34 |
| 93 | Paralogous murine Nudt10 and Nudt11 genes have differential expression patterns but encode identical proteins that are physiologically competent diphosphoinositol polyphosphate phosphohydrolases. Biochemical Journal, 2003, 373, 81-89. | 3.7 | 33 |
| 94 | A two-way switch for inositol pyrophosphate signaling: Evolutionary history and biological significance of a unique, bifunctional kinase/phosphatase. Advances in Biological Regulation, 2020, 75, 100674. | 2.3 | 33 |
| 95 | The transcriptional regulator, Arg82, is a hybrid kinase with both monophosphoinositol and diphosphoinositol polyphosphate synthase activity. FEBS Letters, 2001, 494, 208-212. | 2.8 | 32 |
| 96 | Inositol phosphate kinases: Expanding the biological significance of the universal core of the protein kinase fold. Advances in Biological Regulation, 2019, 71, 118-127. | 2.3 | 32 |
| 97 | The pathway of myo-inositol 1,3,4-trisphosphate dephosphorylation in liver. Biochemical Journal, 1987, 248, 977-980. | 3.7 | 31 |
| 98 | Inositol 3,4,5,6-Tetrakisphosphate Inhibits Insulin Granule Acidification and Fusogenic Potential. Journal of Biological Chemistry, 2002, 277, 26717-26720. | 3.4 | 31 |
| 99 | First synthetic analogues of diphosphoinositol polyphosphates: interaction with PP-InsP5 kinase. Chemical Communications, 2012, 48, 11292. | 4.1 | 30 |
| 100 | Determination of mitochondrial calcium content in hepatocytes by a rapid cellular-fractionation technique. Î±-adrenergic agonists do not mobilize mitochondrial Ca2+. Biochemical Journal, 1984, 219, 383-389. | 3.7 | 29 |
| 101 | Synthesis and Structure of Cellular Mediators: Inositol Polyphosphate Diphosphates. Journal of the American Chemical Society, 1995, 117, 12172-12175. | 13.7 | 29 |
| 102 | Comparison of the activities of a multiple inositol polyphosphate phosphatase obtained from several sources: a search for heterogeneity in this enzyme. Biochemical Journal, 1995, 305, 491-498. | 3.7 | 28 |
| 103 | Cytosolic Multiple Inositol Polyphosphate Phosphatase in the Regulation of Cytoplasmic Free Ca2+ Concentration. Journal of Biological Chemistry, 2003, 278, 46210-46218. | 3.4 | 28 |
| 104 | Multiple isomers of inositol pentakisphosphate in Epstein-Barr-virus- transformed (T5-1) B-lymphocytes. Identification of inositol 1,3,4,5,6-pentakisphosphate, d-inositol 1,2,4,5,6-pentakisphosphate and l-inositol 1,2,4,5,6-pentakisphosphate. Biochemical Journal, 1991, 280, 323-329. | 3.7 | 27 |
| 105 | Inhibition by inositoltetrakisphosphates of calcium- and volume-activated Cl - currents in macrovascular endothelial cells. Pflugers Archiv European Journal of Physiology, 1998, 435, 637-644. | 2.8 | 27 |
| 106 | InsP<sub>7</sub>is a small-molecule regulator of NUDT3-mediated mRNA decapping and processing-body dynamics. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19245-19253. | 7.1 | 27 |
| 107 | Relationships between the degree of cross-linking of surface immunoglobulin and the associated inositol 1,4,5-trisphosphate and Ca2+ signals in human B cells. Biochemical Journal, 1992, 284, 447-455. | 3.7 | 26 |
| 108 | Properties of the Inositol 3,4,5,6-Tetrakisphosphate 1-Kinase Purified from Rat Liver. Journal of Biological Chemistry, 1997, 272, 2285-2290. | 3.4 | 26 |

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| 109 | Transcriptional regulation: a new dominion for inositol phosphate signaling?. BioEssays, 2000, 22, 786-789. | 2.5 | 26 |
| 110 | Diphosphoinositol polyphosphates: What are the mechanisms?. Advances in Enzyme Regulation, 2011, 51, 13-25. | 2.6 | 25 |
| 111 | Functional Regulation of ClC-3 in the Migration of Vascular Smooth Muscle Cells. Hypertension, 2013, 61, 174-179. | 2.7 | 25 |
| 112 | Ins(3,4,5,6)P sub4 inhibits an apical calcium-activated chloride conductance in polarized monolayers of a cystic fibrosis cell-line. Journal of Biological Chemistry, 2000, 275, 26906-13. | 3.4 | 24 |
| 113 | Flavored e-liquids increase cytoplasmic Ca<sup>2+</sup>levels in airway epithelia. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2020, 318, L226-L241. | 2.9 | 24 |
| 114 | The effects of thyroxine treatment, in vivo and in vitro, on Ca2+efflux from rat liver mitochondria. FEBS Letters, 1981, 126, 9-12. | 2.8 | 23 |
| 115 | The Ins(1,3,4)P3 5/6-kinase/Ins(3,4,5,6)P4 1-kinase is not a protein kinase. Biochemical Journal, 2005, 389, 389-395. | 3.7 | 23 |
| 116 | scyllo â€inositol Pentakisphosphate as an Analogue of myo â€inositol 1,3,4,5,6â€Pentakisphosphate: Chemical Synthesis, Physicochemistry and Biological Applications. ChemBioChem, 2006, 7, 1114-1122. | 2.6 | 23 |
| 117 | Understanding the biological significance of diphosphoinositol polyphosphates (â€˜inositol) Tj ETQq1 1 0.784314 rgBT /Overlock 10 | 2.7 | 23 |
| 118 | Structural features of human inositol phosphate multikinase rationalize its inositol phosphate kinase and phosphoinositide 3-kinase activities. Journal of Biological Chemistry, 2017, 292, 18192-18202. | 3.4 | 23 |
| 119 | The significance of the 1-kinase/1-phosphatase activities of the PPIP5K family. Advances in Biological Regulation, 2017, 63, 98-106. | 2.3 | 23 |
| 120 | Structural and biochemical characterization of Siw14: A protein-tyrosine phosphatase fold that metabolizes inositol pyrophosphates. Journal of Biological Chemistry, 2018, 293, 6905-6914. | 3.4 | 23 |
| 121 | Characterization of a rapid cellular-fractionation technique for hepatocytes. Application in the measurement of mitochondrial membrane potential in situ. Biochemical Journal, 1984, 219, 375-382. | 3.7 | 22 |
| 122 | Multitasking in signal transduction by a promiscuous human Ins(3,4,5,6)P4 1-kinase/Ins(1,3,4)P3 5/6-kinase. Biochemical Journal, 2000, 351, 551. | 3.7 | 21 |
| 123 | The thyroid gland and the liver mitochondrial protonic electrochemical potential difference: A novel hormone action?. Journal of Theoretical Biology, 1980, 82, 1-13. | 1.7 | 20 |
| 124 | The Nucleolus Exhibits an Osmotically Regulated Gatekeeping Activity That Controls the Spatial Dynamics and Functions of Nucleolin. Journal of Biological Chemistry, 2008, 283, 11823-11831. | 3.4 | 20 |
| 125 | Molecular basis for the integration of inositol phosphate signaling pathways via human ITPK1. Advances in Enzyme Regulation, 2009, 49, 87-96. | 2.6 | 20 |
| 126 | Inositol hexakisphosphate kinase 1 is a metabolic sensor in pancreatic Î²-cells. Cellular Signalling, 2018, 46, 120-128. | 3.6 | 20 |

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| 127 | Understanding the biological significance of diphosphoinositol polyphosphates (â€˜inositol) Tj ETQq1 1 0.784314 rgBT /Overlock 10 | 2.7 | 20 |
| 128 | Regiospecific phosphohydrolases from Dictyostelium as tools for the chemoenzymatic synthesis of the enantiomers d-myo-inositol 1,2,4-trisphosphate and d-myo-inositol 2,3,6-trisphosphate: non-physiological, potential analogues of biologically active d-myo-inositol 1,3,4-trisphosphate. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 2705-2708. | 2.2 | 19 |
| 129 | Cellular Cations Control Conformational Switching of Inositol Pyrophosphate Analogues. Chemistry - A European Journal, 2016, 22, 12406-12414. | 3.3 | 19 |
| 130 | Î±1-Adrenergic Receptors Mediate LH-Releasing Hormone Secretion through Phospholipases C and A2 in Immortalized Hypothalamic Neurons. Endocrinology, 2001, 142, 4839-4851. | 2.8 | 18 |
| 131 | Synthetic tools for studying the chemical biology of InsP<sub>8</sub>. Chemical Communications, 2015, 51, 12605-12608. | 4.1 | 18 |
| 132 | Polarized subcellular distribution of the 1-, 4- and 5-phosphatase activities that metabolize inositol 1,4,5-trisphosphate in intestinal epithelial cells. Biochemical Journal, 1990, 269, 353-358. | 3.7 | 17 |
| 133 | Kinetic consequences of the inhibition by ATP of the metabolism of inositol (1,4,5) trisphosphate and inositol (1,3,4,5) tetrakisphosphate in liver. Different effects upon the 3- and 5-phosphatases. Cellular Signalling, 1990, 2, 191-195. | 3.6 | 17 |
| 134 | Synthesis and Biological Activity of d- and l-chiro-Inositol 2,3,4,5-Tetrakisphosphate:â€‰ Design of a Novel and Potent Inhibitor of Ins(3,4,5,6)P4 1-Kinase/Ins(1,3,4)P3 5/6-Kinase. Journal of Medicinal Chemistry, 2001, 44, 2984-2989. | 6.4 | 17 |
| 135 | Structural insight into inositol pyrophosphate turnover. Advances in Biological Regulation, 2013, 53, 19-27. | 2.3 | 17 |
| 136 | Changes in free cytosolic calcium and accumulation of inositol phosphates in isolated hepatocytes by [Leu]enkephalin. Biochemical Journal, 1986, 238, 537-542. | 3.7 | 16 |
| 137 | Inositol trisphosphate and tetrakisphosphate phosphomonoesterases of rat liver. Biochemical Society Transactions, 1987, 15, 28-32. | 3.4 | 16 |
| 138 | 1<scp>d</scp>-myo-inositol 1,4,5-trisphosphate dephosphorylation by rat enterocytes involves an intracellular 5-phosphatase and non-specific phosphatase activity at the cell surface. Biochemical Journal, 1988, 255, 131-137. | 3.7 | 16 |
| 139 | Effects of aluminium on the hepatic inositol polyphosphate phosphatase. Biochemical Journal, 1995, 305, 557-561. | 3.7 | 16 |
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