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Nonenzymatic Formation of Guanosine 3' : 5'-Monophosphate from Guanosine Triphosphate

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Journal of Biological Chemistry, 1974, 249, 329-331.

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#	Paper	IF	Citations
43	Activation of guanyl cyclase and intracellular cyclic GMP by fibroblast growth factor. <i>Nature</i> , 1974 , 250, 741-2, 773-4	50.4	110
42	General principles of assays for adenylate cyclase and guanylate cyclase activity. <i>Methods in Enzymology</i> , 1974 , 38, 115-25	1.7	15
41	Methods related to cyclic AMP and adenylate cyclase. <i>Progress in Medicinal Chemistry</i> , 1975 , 12, 293-331	7.3	
40	Increases in cyclic GMP levels in brain and liver with sodium azide an activator of guanylate cyclase. <i>Nature</i> , 1975 , 257, 700-2	50.4	124
39	Two forms of guanylate cyclase in mammalian tissues and possible mechanisms for their regulation. <i>Metabolism: Clinical and Experimental</i> , 1975 , 24, 439-45	12.7	86
38	Assay for adenylate cyclase and cyclic nucleotide phosphodiesterases and the preparation of high specific activity 32-P-labeled substrates. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1975 , 391, 222-39	3.8	22
37	Inhibition of guanylate cyclase and cyclic GMP phosphodiesterase by cholera toxin. <i>Biochemical and Biophysical Research Communications</i> , 1975 , 66, 1017-23	3.4	13
36	The subcellular distribution of adenylate and guanylate cyclases in murine lymphoid cells. <i>Biochemistry</i> , 1976 , 15, 1527-34	3.2	10
35	The metal ion catalyzed decomposition of nucleoside diphosphate sugars. <i>Biochemistry</i> , 1976 , 15, 3843-3	3.2	57
34	Properties of guanylate cyclase in adult rat liver and several Morris hepatomas. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1976 , 445, 500-8	3.8	10
33	A more sensitive radioimmunoassay (RIA) for guanosine 3',5'-cyclic monophosphate (cGMP) involving prior 2-HO-succinylation of samples. <i>Analytical Biochemistry</i> , 1976 , 71, 79-95	3.1	21
32	A simple and sensitive assay for guanylate cyclase. <i>Analytical Biochemistry</i> , 1976 , 70, 18-31	3.1	36
31	Mn ²⁺ -sensitive, soluble adenylate cyclase in rat testis. Differentiation from other testicular nucleotide cyclases. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1977 , 481, 227-35	3.8	50
30	Guanylate cyclase from Dictyostelium discoideum. <i>Life Sciences</i> , 1977 , 21, 997-1008	6.8	17
29	An artifact produced by boiling adenyl cyclase reaction mixtures prior to the cyclic AMP-radioimmunoassay. <i>Analytical Biochemistry</i> , 1978 , 91, 684-90	3.1	5
28	Enzymatic regulation of the concentration of cyclic GMP in mouse brain. <i>Neuropharmacology</i> , 1978 , 17, 737-45	5.5	140
27	Cyclic GMP metabolism in relation to the regulation of cell growth in BALB/c3T3 cells. <i>Experimental Cell Research</i> , 1978 , 114, 111-6	4.2	13

26	A simplified procedure for cyclic nucleotide radioimmunoassay and its application to human blood leukocytes. <i>Journal of Immunological Methods</i> , 1978 , 19, 301-8	2.5	13
25	Guanylate cyclase activity in rat liver and other tissues with starvation and streptozotocin-induced diabetes mellitus. <i>Archives of Biochemistry and Biophysics</i> , 1979 , 194, 292-8	4.1	5
24	Effects of pyruvate and other metabolites on cyclic GMP levels in incubations of rat hepatocytes and kidney cortex. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1981 , 673, 14-25	4	14
23	Calcium modulation of cyclic GMP synthesis in rat visual cells. <i>Vision Research</i> , 1982 , 22, 1481-6	2.1	150
22	Determination of adenylate cyclase and guanylate cyclase activities in cells of the immune system. <i>Methods in Enzymology</i> , 1986 , 132, 422-8	1.7	12
21	Activation of adenylate cyclase in rat fat cells promotes an increase in GTP content which controls the enzyme activity. <i>Molecular and Cellular Endocrinology</i> , 1988 , 55, 183-92	4.4	1
20	Involvement of cyclic guanosine monophosphate (cGMP) and cytosolic guanylate cyclase in the regulation of synaptic ribbon numbers in rat pineal gland. <i>Brain Research</i> , 1992 , 570, 231-6	3.7	26
19	In rat pinealocytes the cyclic GMP response to NO is regulated by Ca ²⁺ and protein kinase C. <i>Brain Research</i> , 1995 , 694, 207-12	3.7	12
18	Down-regulation of the nocturnally elevated guanylyl cyclase activity in the rat pineal gland. <i>Neuroscience Letters</i> , 1995 , 190, 61-4	3.3	7
17	Adenylate and Guanylate Cyclase Assays. 2001 , 00, 2.2.1		
16	Adenylyl and guanylyl cyclase assays. <i>Current Protocols in Pharmacology</i> , 2005 , Chapter 2, Unit2.2	4.1	1
15	Characterization of a Ca ²⁺ -dependent guanylate cyclase in the excitable ciliary membrane from Paramecium. <i>FEBS Journal</i> , 1982 , 124, 317-24		45
14	Biphasic 24-hour variations in cyclic GMP accumulation in the rat pineal gland are due to corresponding changes in the activity of cytosolic and particulate guanylate cyclase. <i>Journal of Neurochemistry</i> , 1992 , 59, 2081-6	6	13
13	Cyclic GMP controls <i>Rhodospirillum centenum</i> cyst development. <i>Molecular Microbiology</i> , 2011 , 79, 600-151	4.5	59
12	Guanylate Cyclase. 1976 , 155-193		1
11	Assays for Cyclic Nucleotides Including Clinical Applications. 1977 , 389-412		5
10	Cyclic nucleotide metabolism in solid tumor tissues. <i>Advances in Experimental Medicine and Biology</i> , 1977 , 92, 489-516	3.6	7
9	Cyclic GMP in Metabolism: Interrelationship of Biogenic Amines, Hormones, and Other Agents. 1978 , 1-32		3

8	Chemistry of Cyclic Nucleotides and Cyclic Nucleotide Analogs. <i>Handbook of Experimental Pharmacology</i> , 1982 , 17-151	3.2	11
7	Guanylate cyclase and cyclic guanosine 3 β Hmonophosphate phosphodiesterase activities and cyclic guanosine 3 β Hmonophosphate levels in normal and transformed fibroblasts in culture.. <i>Journal of Biological Chemistry</i> , 1976 , 251, 2344-2352	5.4	53
6	Activation of guanylate cyclase from rat liver and other tissues by sodium azide.. <i>Journal of Biological Chemistry</i> , 1975 , 250, 8016-8022	5.4	178
5	Localization of particulate guanylate cyclase in plasma membranes and microsomes of rat liver.. <i>Journal of Biological Chemistry</i> , 1975 , 250, 4810-4817	5.4	80
4	Evidence for Two Different Forms of Guanylate Cyclase in Rat Heart. <i>Journal of Biological Chemistry</i> , 1974 , 249, 6910-6916	5.4	209
3	Appearance of magnesium guanylate cyclase activity in rat liver with sodium azide activation. <i>Journal of Biological Chemistry</i> , 1976 , 251, 7769-7773	5.4	42
2	Evidence for guanylate cyclase activity associated with hemagglutinating virus of Japan (Sendai virus).. <i>Journal of Biological Chemistry</i> , 1981 , 256, 2508-2513	5.4	4
1	Cyclic Nucleotide Metabolism. 1983 , 331-366		1