

Cyclic GMP-AMP Synthase Is a Cytosolic DNA Sensor That Initiates the cGAS- λ Pathway

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Molecular Mechanism for p202-Mediated Specific Inhibition of AIM2 Inflammasome Activation. Cell Reports, 2013, 4, 327-339.	2.9	81
2	The interferon response to intracellular DNA: Why so many receptors?. Immunobiology, 2013, 218, 1312-1321.	0.8	222
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4	Biofilm switch and immune response determinants at early stages of infection. Trends in Microbiology, 2013, 21, 364-371.	3.5	31
5	Structure-Function Analysis of STING Activation by c[G(2â€²,5â€²)pA(3â€²,5â€²)p] and Targeting by Antiviral DMXAA. Cell, 2013, 154, 748-762.	13.5	472
6	The cGAS-STING Pathway for DNA Sensing. Molecular Cell, 2013, 51, 135-139.	4.5	135
7	Host-Pathogen Interactions During Mycobacterium tuberculosis infections. Current Topics in Microbiology and Immunology, 2013, 374, 211-241.	0.7	91
8	Structural Insights into the Functions of TBK1 in Innate Antimicrobial Immunity. Structure, 2013, 21, 1137-1148.	1.6	90
9	Cytosolic DNA sensing unraveled. Nature Chemical Biology, 2013, 9, 533-534.	3.9	3
10	Generating protective immunity against genital herpes. Trends in Immunology, 2013, 34, 487-494.	2.9	43
11	Cyclic Dinucleotides and the Innate Immune Response. Cell, 2013, 154, 962-970.	13.5	174
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18	Cyclic GMP-AMP Synthase Is an Innate Immune Sensor of HIV and Other Retroviruses. Science, 2013, 341, 903-906.	6.0	837

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22	Innate Immune Signaling by, and Genetic Adjuvants for DNA Vaccination. <i>Vaccines</i> , 2013, 1, 278-292.	2.1	43
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1774	Cyclic oligoadenylate signaling and regulation by ring nucleases during type III CRISPR defense. <i>Rna</i> , 2021, 27, 855-867.	1.6	31
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1778	Synthesis and Biological Evaluation of Phosphoester and Phosphorothioate Prodrugs of STING Agonist 3â€²,3â€²-c-Di(2â€²F,2â€²dAMP). <i>Journal of Medicinal Chemistry</i> , 2021, 64, 7596-7616.	2.9	28
1779	Turning tumors from cold to inflamed to improve immunotherapy response. <i>Cancer Treatment Reviews</i> , 2021, 101, 102227.	3.4	42
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1781	The cGASâ€”STING signaling in cardiovascular and metabolic diseases: Future novel target option for pharmacotherapy. <i>Acta Pharmaceutica Sinica B</i> , 2022, 12, 50-75.	5.7	92
1782	From Design to Clinic: Engineered Nanobiomaterials for Immune Normalization Therapy of Cancer. <i>Advanced Materials</i> , 2021, 33, e2008094.	11.1	60
1783	Zebularine elevates STING expression and enhances cGAMP cancer immunotherapy in mice. <i>Molecular Therapy</i> , 2021, 29, 1758-1771.	3.7	26
1784	Type I and II interferons toward ideal vaccine and immunotherapy. <i>Expert Review of Vaccines</i> , 2021, 20, 527-544.	2.0	4
1785	Synthesis and Pharmacological Evaluation of Tetrahydro-Î³-carboline Derivatives as Potent Anti-inflammatory Agents Targeting Cyclic GMPâ€”AMP Synthase. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 7667-7690.	2.9	28
1786	Radiation-Induced Immunity and Toxicities: The Versatility of the cGAS-STING Pathway. <i>Frontiers in Immunology</i> , 2021, 12, 680503.	2.2	31
1787	Cytosolic dsDNA of mitochondrial origin induces cytotoxicity and neurodegeneration in cellular and zebrafish models of Parkinsonâ€™s disease. <i>Nature Communications</i> , 2021, 12, 3101.	5.8	49
1788	Phosphoinositides: Functions in autophagy-related stress responses. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2021, 1866, 158903.	1.2	3
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1802	Crucial role of stimulator of interferon genes-dependent signaling in house dust mite extract-induced IgE production. <i>Scientific Reports</i> , 2021, 11, 13157.	1.6	6
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1804	DHX15 is required to control RNA virus-induced intestinal inflammation. <i>Cell Reports</i> , 2021, 35, 109205.	2.9	28
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1807	Sacubitril/valsartan treatment has differential effects in modulating diabetic kidney disease in db/db mice and KK ^Y mice compared with valsartan treatment. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 320, F1133-F1151.	1.3	20
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1810	Hidden phenotypes of PINK1/Parkin knockout mice. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2021, 1865, 129871.	1.1	9
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1815	The STING1 network regulates autophagy and cell death. <i>Signal Transduction and Targeted Therapy</i> , 2021, 6, 208.	7.1	105
1816	Nucleic acid nanoparticles (NANPs) as molecular tools to direct desirable and avoid undesirable immunological effects. <i>Advanced Drug Delivery Reviews</i> , 2021, 173, 427-438.	6.6	38
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1831	The Cytosolic DNA-Sensing cGAS-STING Pathway in Liver Diseases. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 717610.	1.8	9
1832	Lipid Nanoparticle Spherical Nucleic Acids for Intracellular DNA and RNA Delivery. <i>Nano Letters</i> , 2021, 21, 6584-6591.	4.5	50
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1834	cGAS-like receptors sense RNA and control 3 α - β -cGAMP signalling in <i>Drosophila</i> . <i>Nature</i> , 2021, 597, 109-113.	13.7	104
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1837	Molecular mechanisms of nonself nucleic acid recognition by the innate immune system. <i>European Journal of Immunology</i> , 2021, 51, 1897-1910.	1.6	27
1838	Mitotic disassembly and reassembly of nuclear pore complexes. <i>Trends in Cell Biology</i> , 2021, 31, 1019-1033.	3.6	54
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1841	cGAS Is a Negative Regulator of RIG-I-Mediated IFN Response in Cyprinid Fish. <i>Journal of Immunology</i> , 2021, 207, 784-798.	0.4	4
1842	The Innate Immune cGAS-STING-Pathway in Cardiovascular Diseases – A Mini Review. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 715903.	1.1	15
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1844	Battle Royale: Innate Recognition of Poxviruses and Viral Immune Evasion. <i>Biomedicines</i> , 2021, 9, 765.	1.4	49
1846	Two cGAS-like receptors induce antiviral immunity in <i>Drosophila</i> . <i>Nature</i> , 2021, 597, 114-118.	13.7	84
1847	Anti-Viral Pattern Recognition Receptors as Therapeutic Targets. <i>Cells</i> , 2021, 10, 2258.	1.8	21

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1852	The Promise and Challenges of Cyclic Dinucleotides as Molecular Adjuvants for Vaccine Development. <i>Vaccines</i> , 2021, 9, 917.	2.1	13
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1855	Modulation of immune responses by DNA damage signaling. <i>DNA Repair</i> , 2021, 104, 103135.	1.3	8
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1859	Intercellular cGAMP transmission induces innate immune activation and tissue inflammation in Trex1 deficiency. <i>iScience</i> , 2021, 24, 102833.	1.9	3
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1867	Inhibition of histone deacetylase 1 suppresses pseudorabies virus infection through cGAS-STING antiviral innate immunity. <i>Molecular Immunology</i> , 2021, 136, 55-64.	1.0	8
1868	Evading immune surveillance via tyrosine phosphorylation of nuclear PCNA. <i>Cell Reports</i> , 2021, 36, 109537.	2.9	6

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1871	Immune Microenvironment Landscape in CNS Tumors and Role in Responses to Immunotherapy. <i>Cells</i> , 2021, 10, 2032.	1.8	12
1872	Nuclear cGAS: sequestration and beyond. <i>Protein and Cell</i> , 2022, 13, 90-101.	4.8	27
1873	An invertebrate gene encoding a Mab21-containing protein involves in antiviral response through regulating the STING pathway. <i>Developmental and Comparative Immunology</i> , 2021, 121, 104101.	1.0	6
1874	Nucleic acid vaccines and CpG oligodeoxynucleotides for allergen immunotherapy. <i>Current Opinion in Allergy and Clinical Immunology</i> , 2021, Publish Ahead of Print, 569-575.	1.1	8
1875	Consequences of mitotic failure – The penalties and the rewards. <i>Seminars in Cell and Developmental Biology</i> , 2021, 117, 149-158.	2.3	6
1876	The protein arginine methyltransferase PRMT1 promotes TBK1 activation through asymmetric arginine methylation. <i>Cell Reports</i> , 2021, 36, 109731.	2.9	22
1877	The opportunistic intracellular bacterial pathogen <i>Rhodococcus equi</i> elicits type I interferon by engaging cytosolic DNA sensing in macrophages. <i>PLoS Pathogens</i> , 2021, 17, e1009888.	2.1	8
1878	Control of topoisomerase II activity and chemotherapeutic inhibition by TCA cycle metabolites. <i>Cell Chemical Biology</i> , 2022, 29, 476-489.e6.	2.5	10
1879	Actin Cytoskeleton Dynamics and Type I IFN-Mediated Immune Response: A Dangerous Liaison in Cancer?. <i>Biology</i> , 2021, 10, 913.	1.3	2
1880	The Yin and Yang of Type I IFNs in Cancer Promotion and Immune Activation. <i>Biology</i> , 2021, 10, 856.	1.3	21
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1882	Peroxiredoxin 1 Interacts with TBK1/IKK μ and Negatively Regulates Pseudorabies Virus Propagation by Promoting Innate Immunity. <i>Journal of Virology</i> , 2021, 95, e0092321.	1.5	13
1883	The Interplay Among HIV, LINE-1, and the Interferon Signaling System. <i>Frontiers in Immunology</i> , 2021, 12, 732775.	2.2	10
1884	Understanding and overcoming adverse consequences of genome editing on hematopoietic stem and progenitor cells. <i>Molecular Therapy</i> , 2021, 29, 3205-3218.	3.7	14
1885	Regulation of innate immune signaling pathways by autophagy in dengue virus infection. <i>IUBMB Life</i> , 2021, , .	1.5	2
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1889	Senescence in HBV-, HCV- and NAFLD- Mediated Hepatocellular Carcinoma and Senotherapeutics: Current Evidence and Future Perspective. Cancers, 2021, 13, 4732.	1.7	12
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1898	Mechanisms and clinical importance of bacteriophage resistance. FEMS Microbiology Reviews, 2022, 46, .	3.9	92
1899	Amplifying STING activation by cyclic dinucleotideâ€œ manganese particles for local and systemic cancer metalloimmunotherapy. Nature Nanotechnology, 2021, 16, 1260-1270.	15.6	261
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1907	The Innate Immune DNA Sensing cGAS-STING Signaling Pathway Mediates Anti-PRRSV Function. <i>Viruses</i> , 2021, 13, 1829.	1.5	14
1908	cGAS-STING-mediated IFN-I Response in Host Defense and Neuroinflammatory Diseases. <i>Current Neuropharmacology</i> , 2022, 20, 362-371.	1.4	22
1909	STING Signaling and Sterile Inflammation. <i>Frontiers in Immunology</i> , 2021, 12, 753789.	2.2	26
1910	Interplay of cGAS with chromatin. <i>Trends in Biochemical Sciences</i> , 2021, 46, 822-831.	3.7	17
1911	Nuclear deformations, from signaling to perturbation and damage. <i>Current Opinion in Cell Biology</i> , 2021, 72, 137-145.	2.6	21
1912	The role of cGAS-STING signalling in liver diseases. <i>JHEP Reports</i> , 2021, 3, 100324.	2.6	29
1913	<i>Alu</i> complementary DNA is enriched in atrophic macular degeneration and triggers retinal pigmented epithelium toxicity via cytosolic innate immunity. <i>Science Advances</i> , 2021, 7, eabj3658.	4.7	23
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1918	Biology of HPV Mediated Carcinogenesis and Tumor Progression. <i>Seminars in Radiation Oncology</i> , 2021, 31, 265-273.	1.0	21
1919	ALKBH5-Modified HMGB1-STING Activation Contributes to Radiation Induced Liver Disease via Innate Immune Response. <i>International Journal of Radiation Oncology Biology Physics</i> , 2021, 111, 491-501.	0.4	29
1920	C-type lectin binds envelope protein of white spot syndrome virus and induces antiviral peptides in red swamp crayfish. <i>Fish and Shellfish Immunology Reports</i> , 2021, 2, 100027.	0.5	1
1921	cGASa and cGASb from grass carp (<i>Ctenopharyngodon idellus</i>) play opposite roles in mediating type I interferon response. <i>Developmental and Comparative Immunology</i> , 2021, 125, 104233.	1.0	3
1922	Luciferase reporter assays to monitor interferon signaling modulation by SARS-CoV-2 proteins. <i>STAR Protocols</i> , 2021, 2, 100781.	0.5	7
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1927	The identification of a shorter cyclic GMP-AMP synthase gene from chickens and bioinformatics analysis of its potential signaling in IFN regulation. <i>Developmental and Comparative Immunology</i> , 2022, 127, 104266.	1.0	0
1928	cGAS-STING pathway expression as a prognostic tool in NSCLC. <i>Translational Lung Cancer Research</i> , 2021, 10, 340-354.	1.3	18
1929	Arginine starvation elicits chromatin leakage and cGAS-STING activation via epigenetic silencing of metabolic and DNA-repair genes. <i>Theranostics</i> , 2021, 11, 7527-7545.	4.6	25
1930	Innate Immune Responses and Pulmonary Diseases. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1304, 53-71.	0.8	1
1931	Tricarboxylic Acid (TCA) Cycle Intermediates: Regulators of Immune Responses. <i>Life</i> , 2021, 11, 69.	1.1	66
1932	Immune evasion of SARS-CoV-2 from interferon antiviral system. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 4217-4225.	1.9	49
1933	Moonlighting Proteins Are Important Players in Cancer Immunology. <i>Frontiers in Immunology</i> , 2020, 11, 613069.	2.2	19
1934	Replacement of oxygen with sulfur on the furanose ring of cyclic dinucleotides enhances the immunostimulatory effect <i>via</i> STING activation. <i>RSC Medicinal Chemistry</i> , 2021, 12, 1519-1524.	1.7	9
1935	STING controls nociception via type I interferon signalling in sensory neurons. <i>Nature</i> , 2021, 591, 275-280.	13.7	107
1936	The role of immunotherapy in combination with oligometastasis-directed therapy: a narrative review. <i>Annals of Palliative Medicine</i> , 2021, 10, 34-34.	0.5	3
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