

# Hitoshi Nakamoto

## List of Publications by Year in descending order

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64  
papers

2,514  
citations

172207

29  
h-index

197535

49  
g-index

65  
all docs

65  
docs citations

65  
times ranked

2591  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Therapeutic Target Hsp90 and Cancer Hallmarks. <i>Current Pharmaceutical Design</i> , 2013, 19, 347-365.	0.9	278
2	Light-driven Hydrogen Production by a Hybrid Complex of a [NiFe]-Hydrogenase and the Cyanobacterial Photosystem I. <i>Photochemistry and Photobiology</i> , 2006, 82, 676.	1.3	176
3	Photosynthetic Characteristics of C3-C4 Intermediate Flaveria Species. <i>Plant Physiology</i> , 1983, 71, 944-948.	2.3	143
4	Heat shock response in photosynthetic organisms: Membrane and lipid connections. <i>Progress in Lipid Research</i> , 2012, 51, 208-220.	5.3	134
5	Regulation of Expression of Carbon-Assimilating Enzymes by Nitrogen in Maize Leaf. <i>Plant Physiology</i> , 1990, 92, 963-969.	2.3	120
6	Constitutive expression of a small heat-shock protein confers cellular thermotolerance and thermal protection to the photosynthetic apparatus in cyanobacteria. <i>FEBS Letters</i> , 2000, 483, 169-174.	1.3	95
7	HtpG is essential for the thermal stress management in cyanobacteria. <i>FEBS Letters</i> , 1999, 458, 117-123.	1.3	85
8	Membrane Regulation of the Stress Response from Prokaryotic Models to Mammalian Cells. <i>Annals of the New York Academy of Sciences</i> , 2007, 1113, 40-51.	1.8	76
9	Intact Carboxysomes in a Cyanobacterial Cell Visualized by Hilbert Differential Contrast Transmission Electron Microscopy. <i>Journal of Bacteriology</i> , 2006, 188, 805-808.	1.0	74
10	HtpG, the prokaryotic homologue of Hsp90, stabilizes a phycobilisome protein in the cyanobacterium <i>Synechococcus elongatus</i> PCC 7942. <i>Molecular Microbiology</i> , 2010, 76, 576-589.	1.2	70
11	Role for the Cyanobacterial HtpG in Protection from Oxidative Stress. <i>Current Microbiology</i> , 2003, 46, 70-76.	1.0	68
12	Physical Interaction between Bacterial Heat Shock Protein (Hsp) 90 and Hsp70 Chaperones Mediates Their Cooperative Action to Refold Denatured Proteins. <i>Journal of Biological Chemistry</i> , 2014, 289, 6110-6119.	1.6	68
13	Photoinduced Hydrogen Production by Direct Electron Transfer from Photosystem I Cross-Linked with Cytochrome c <sub>3</sub> to [NiFe]-Hydrogenase. <i>Photochemistry and Photobiology</i> , 2006, 82, 1677-1685.	1.3	61
14	Influence of Leaf Age on Photosynthesis, Enzyme Activity, and Metabolite Levels in Wheat. <i>Plant Physiology</i> , 1987, 84, 1244-1248.	2.3	59
15	Targeted inactivation of the hrcA repressor gene in cyanobacteria. <i>FEBS Letters</i> , 2003, 549, 57-62.	1.3	58
16	HtpG Plays a Role in Cold Acclimation in Cyanobacteria. <i>Current Microbiology</i> , 2002, 44, 291-296.	1.0	53
17	Pyruvate, Pi Dikinase in Bundle Sheath Strands as Well as in Mesophyll Cells in Maize Leaves. <i>Plant Physiology</i> , 1985, 78, 661-664.	2.3	52
18	Purification and characterization of the 16-kDa heat-shock-responsive protein from the thermophilic cyanobacterium <i>Synechococcus vulcanus</i> , which is an alpha-crystallin-related, small heat shock protein. <i>FEBS Journal</i> , 1999, 262, 406-416.	0.2	50

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19	Influence of Oxygen and Temperature on the Dark Inactivation of Pyruvate, Orthophosphate Dikinase and NADP-Malate Dehydrogenase in Maize. <i>Plant Physiology</i> , 1983, 71, 568-573.	2.3	44
20	A small heat-shock protein confers stress tolerance and stabilizes thylakoid membrane proteins in cyanobacteria under oxidative stress. <i>Archives of Microbiology</i> , 2009, 191, 319-328.	1.0	42
21	Resilience and self-regulation processes of microalgae under UV radiation stress. <i>Journal of Photochemistry and Photobiology C: Photochemistry Reviews</i> , 2020, 43, 100322.	5.6	40
22	Purification and Characterization of NAD Malic Enzyme from Leaves of <i>Eleusine coracana</i> and <i>Panicum dichotomiflorum</i> . <i>Plant Physiology</i> , 1989, 89, 316-324.	2.3	38
23	Cloning, characterization and functional analysis of groESL operon from thermophilic cyanobacterium <i>Synechococcus vulcanus</i> . <i>BBA - Proteins and Proteomics</i> , 1997, 1343, 335-348.	2.1	37
24	Studies on the role of HtpG in the tetrapyrrole biosynthesis pathway of the cyanobacterium <i>Synechococcus elongatus</i> PCC 7942. <i>Biochemical and Biophysical Research Communications</i> , 2007, 352, 36-41.	1.0	35
25	Ultrastructural stability under high temperature or intensive light stress conferred by a small heat shock protein in cyanobacteria. <i>FEBS Letters</i> , 2005, 579, 1235-1242.	1.3	34
26	Light plays a key role in the modulation of heat shock response in the cyanobacterium <i>Synechocystis</i> sp. PCC 6803. <i>Biochemical and Biophysical Research Communications</i> , 2003, 306, 872-879.	1.0	33
27	Roles of the cyanobacterial isiABC operon in protection from oxidative and heat stresses. <i>Physiologia Plantarum</i> , 2006, 128, 507-519.	2.6	32
28	Cloning, characterization and functional analysis of groEL-like gene from thermophilic cyanobacterium <i>Synechococcus vulcanus</i> , which does not form an operon with groES. <i>BBA - Proteins and Proteomics</i> , 1996, 1294, 106-110.	2.1	31
29	Partial Characterization of the in Vitro Activation of Inactive Pyruvate, Pi Dikinase from Darkened Maize Leaves. <i>Plant Physiology</i> , 1982, 69, 749-753.	2.3	30
30	Comparative analysis of the hspA mutant and wild-type <i>Synechocystis</i> sp. strain PCC 6803 under salt stress: evaluation of the role of hspA in salt-stress management. <i>Archives of Microbiology</i> , 2004, 182, 487-497.	1.0	30
31	Expression and function of a groEL paralog in the thermophilic cyanobacterium <i>Thermosynechococcus elongatus</i> under heat and cold stress. <i>FEBS Letters</i> , 2008, 582, 3389-3395.	1.3	30
32	A novel light- and heat-responsive regulation of the groE transcription in the absence of HrcA or CIRCE in cyanobacteria. <i>FEBS Letters</i> , 2007, 581, 1871-1880.	1.3	28
33	Far-red stimulated long-lived luminescence from barley protoplasts. <i>Plant Science</i> , 1988, 55, 1-7.	1.7	27
34	Interaction of a small heat shock protein with light-harvesting cyanobacterial phycocyanins under stress conditions. <i>FEBS Letters</i> , 2006, 580, 3029-3034.	1.3	26
35	Cloning, Characterization, and Transcriptional Analysis of a Gene Encoding an $\alpha$ -Crystallin-Related, Small Heat Shock Protein from the Thermophilic Cyanobacterium <i>Synechococcus vulcanus</i> . <i>Journal of Bacteriology</i> , 1998, 180, 3997-4001.	1.0	24
36	Light Activation of Pyruvate, Pi Dikinase and NADP-Malate Dehydrogenase in Mesophyll Protoplasts of Maize. <i>Plant Physiology</i> , 1986, 82, 312-315.	2.3	23

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37	Cyclic lipopeptide antibiotics bind to the N-terminal domain of the prokaryotic Hsp90 to inhibit the chaperone activity. <i>Biochemical Journal</i> , 2011, 435, 237-246.	1.7	23
38	Specific binding of a protein to a novel DNA element in the cyanobacterial small heat-shock protein gene. <i>Biochemical and Biophysical Research Communications</i> , 2002, 297, 616-624.	1.0	21
39	Interaction of the Molecular Chaperone HtpG with Uroporphyrinogen Decarboxylase in the Cyanobacterium <i>Synechococcus elongatus</i> PCC 7942. <i>Bioscience, Biotechnology and Biochemistry</i> , 2008, 72, 1394-1397.	0.6	21
40	Conserved temperature-dependent expression of RNA-binding proteins in cyanobacteria with different temperature optima. <i>FEMS Microbiology Letters</i> , 2003, 225, 137-142.	0.7	18
41	Comparative Biochemical Characterization of Two GroEL Homologs from the Cyanobacterium <i>Synechococcus elongatus</i> PCC 7942. <i>Bioscience, Biotechnology and Biochemistry</i> , 2010, 74, 2273-2280.	0.6	17
42	Non-housekeeping, non-essential <i>scp</i> GroEL (chaperonin) has acquired novel structure and function beneficial under stress in cyanobacteria. <i>Physiologia Plantarum</i> , 2017, 161, 296-310.	2.6	13
43	A Novel Heat Shock Protein Plays an Important Role in Thermal Stress Management in Cyanobacteria. <i>Journal of Biological Chemistry</i> , 2001, 276, 25088-25095.	1.6	12
44	Sudden changes in the rate of photosynthetic oxygen evolution and chlorophyll fluorescence in intact isolated chloroplasts: the role of orthophosphate. <i>Photosynthesis Research</i> , 1987, 11, 119-130.	1.6	11
45	Post-transcriptional control of the cyanobacterial hspA heat-shock induction. <i>Biochemical and Biophysical Research Communications</i> , 2005, 331, 583-588.	1.0	11
46	Inhibition of C4 photosynthesis by (benzamidoxy)acetic acid. <i>Photosynthesis Research</i> , 1982, 3, 293-305.	1.6	10
47	The NADPH thioredoxin reductase C functions as an electron donor to 2-Cys peroxiredoxin in a thermophilic cyanobacterium <i>Thermosynechococcus elongatus</i> BP-1. <i>Biochemical and Biophysical Research Communications</i> , 2009, 380, 520-524.	1.0	10
48	Goniotalamin enhances the ATPase activity of the molecular chaperone Hsp90 but inhibits its chaperone activity. <i>Journal of Biochemistry</i> , 2015, 157, 161-168.	0.9	10
49	A cyclic lipopeptide surfactin is a species-selective Hsp90 inhibitor that suppresses cyanobacterial growth. <i>Journal of Biochemistry</i> , 2021, 170, 255-264.	0.9	8
50	Stimulation of the ATPase activity of Hsp90 by zerumbone modification of its cysteine residues destabilizes its clients and causes cytotoxicity. <i>Biochemical Journal</i> , 2018, 475, 2559-2576.	1.7	6
51	Dark Activation of NADP-Malate Dehydrogenase in Maize Leaf Discs. <i>Zeitschrift für Pflanzenphysiologie</i> , 1984, 114, 315-320.	1.4	4
52	APPLICATIONS OF CAPILLARY ELECTROPHORESIS TO REDOX PROTEINS AND NUCLEOTIDES IN PHOTOSYNTHETIC SYSTEM. <i>Analytical Sciences</i> , 1991, 7, 1545-1548.	0.8	4
53	Editorial: [Hot Topic: Molecular Chaperones as Drug Targets]. <i>Current Pharmaceutical Design</i> , 2013, 19, 307-308.	0.9	3
54	Constitutive Expression of Small Heat Shock Protein in an htpG Disruptant of the Cyanobacterium <i>Synechococcus</i> sp. PCC 7942. <i>Current Microbiology</i> , 2005, 50, 272-276.	1.0	2

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55	pH-mediated control of anti-aggregation activities of cyanobacterial and E. coli chaperonin GroELs. Journal of Biochemistry, 2021, 169, 351-361.	0.9	2
56	Regulation of the <i>groESL1</i> transcription by the HrcA repressor and a novel transcription factor Orf7.5 in the cyanobacterium <i>Synechococcus elongatus</i> PCC7942. Journal of General and Applied Microbiology, 2020, 66, 85-92.	0.4	2
57	Nucleotide sequence of the <i>psaD</i> gene from the thermophilic cyanobacterium <i>Synechococcus vulcanus</i> . Photosynthesis Research, 1995, 46, 265-268.	1.6	1
58	pH-regulated chaperone function of cyanobacterial Hsp90 and Hsp70: implications for light/dark regulation. Journal of Biochemistry, 2021, 170, 463-471.	0.9	1
59	Cloning, characterization and transcriptional studies of ferredoxin genes from the mesophilic cyanobacterium <i>Synechocystis</i> sp. PCC 6803 and the thermophilic cyanobacterium <i>Synechococcus vulcanus</i> . Physiologia Plantarum, 1997, 101, 199-205.	2.6	0
60	2P331 Involvement of the molecular chaperone HtpG (Hsp90) in assembly and degradation of the supramolecular complex phycobilisome(Photobiology-photosynthesis, and vision and) Tj ETQq0 0 0 rgBT /Overlock 1.0 Tf 50 537 Td (ph	0.0	0
61	3P-272 Interaction of HtpG (Hsp90) with the DnaK (Hsp70) chaperone system in the cyanobacterium <i>Synechococcus</i> sp. PCC 7942(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S169.	0.0	0
62	1TP3-03 Cyanobacterial DnaK/DnaJ/GrpE system and the modulation of its refolding activity by HtpG(The) Tj ETQq0 0 0 rgBT /Overlock 1.0 Tf 50 537 Td (ph	0.0	0
63	Cloning, characterization and transcriptional studies of ferredoxin genes from the mesophilic cyanobacterium <i>Synechocystis</i> sp. PCC 6803 and the thermophilic cyanobacterium <i>Synechococcus vulcanus</i> . Physiologia Plantarum, 1997, 101, 199-205.	2.6	0
64	Regulation of Metabolism and Structural Polymorphism of Amyloid Fibrils. Seibutsu Butsuri, 2020, 60, 236-240.	0.0	0