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## The heat-shock proteins

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2019	The yeast heat shock response is induced by conversion of cells to spheroplasts and by potent transcriptional inhibitors. <b>1991</b> , 173, 7429-35	51
2018	DNA replication in cell-free extracts from <i>Drosophila melanogaster</i> .. <b>1991</b> , 10, 4361-4369	34
2017	Characterization of the groEL-like genes in <i>Streptomyces albus</i> . <b>1991</b> , 173, 7382-6	60
2016	Isolation, characterization, and sequence of an <i>Escherichia coli</i> heat shock gene, htpX. <b>1991</b> , 173, 2944-53	55
2015	Nucleocytoplasmic shuttling of the progesterone receptor.. <b>1991</b> , 10, 3851-3859	204
2014	Characterization of the heat shock response in <i>Mycobacterium bovis</i> BCG. <b>1991</b> , 173, 7982-7	23
2013	Immediate early gene and HSP70 expression in hyperosmotic stress in MDCK cells. <b>1991</b> , 261, C594-601	175
2012	Isolation and characterization of a small heat shock protein gene from maize. <b>1991</b> , 96, 1268-76	44
2011	Mammalian stress proteins HSP70 and HSP28 coinduced by nicotine and either ethanol or heat. <b>1991</b> , 11, 6034-40	34

2010	Selective activation of human heat shock gene transcription by nitrosourea antitumor drugs mediated by isocyanate-induced damage and activation of heat shock transcription factor. <b>1991</b> , 88, 4825-9	29
2009	Uncoupling thermotolerance from the induction of heat shock proteins. <b>1991</b> , 88, 11091-4	79
2008	Genetic Control of Physiological Response-a Necessary Relationship. <b>1991</b> , 5, 213	5
2007	HSP47: a tissue-specific, transformation-sensitive, collagen-binding heat shock protein of chicken embryo fibroblasts. <b>1991</b> , 11, 4036-44	120
2006	Expression of the murine alpha B-crystallin gene in lens and skeletal muscle: identification of a muscle-preferred enhancer. <b>1991</b> , 11, 4340-9	75
2005	Characterization of the hydrophobic region of heat shock protein 90. <b>1991</b> , 110, 141-5	19
2004	CDC68, a yeast gene that affects regulation of cell proliferation and transcription, encodes a protein with a highly acidic carboxyl terminus. <b>1991</b> , 11, 5718-26	117
2003	The 29-kDa proteins phosphorylated in thrombin-activated human platelets are forms of the estrogen receptor-related 27-kDa heat shock protein. <b>1991</b> , 88, 11212-6	79
2002	FK 506-binding protein proline rotamase is a target for the immunosuppressive agent FK 506 in <i>Saccharomyces cerevisiae</i> . <b>1991</b> , 88, 1948-52	259
2001	The intron-containing hsp82 gene of the dimorphic pathogenic fungus <i>Histoplasma capsulatum</i> is properly spliced in severe heat shock conditions. <b>1991</b> , 11, 5624-30	39
2000	Ca <sup>2+</sup> is essential for multistep activation of the heat shock factor in permeabilized cells. <b>1991</b> , 11, 3365-8	133
1999	Protein folding in vitro and in the cellular environment. <b>1991</b> , 71, 17-23	11
1998	Thermal response of rat fibroblasts stably transfected with the human 70-kDa heat shock protein-encoding gene. <b>1991</b> , 88, 1681-5	336
1997	Alpha B crystallin accumulation is a specific response to Ha-ras and v-mos oncogene expression in mouse NIH 3T3 fibroblasts. <b>1991</b> , 11, 803-12	90
1996	Regulation of heat shock factor in <i>Schizosaccharomyces pombe</i> more closely resembles regulation in mammals than in <i>Saccharomyces cerevisiae</i> . <b>1991</b> , 11, 281-8	67
1995	Characterization of a rat pancreatic secretory protein associated with pancreatitis. <b>1991</b> , 100, 775-82	84
1994	Induction of heat shock proteins in lymphocytes increases with mitogen stimulation. <b>1991</b> , 30, 333-7	7
1993	Protein tumor antigens. <b>1991</b> , 3, 654-8	12

1992	Heat shock proteins: Molecular chaperones. <b>1991</b> , 19, 166-172	2
1991	Elevated levels of stress proteins associated with bacterial symbiosis in <i>Amoeba proteus</i> and soybean root nodule cells. <b>1991</b> , 25, 205-12	22
1990	Heat shock proteins and immune responses: an early view. <b>1991</b> , 10, 66-78	9
1989	Protein transport and compartmentation in yeast. <b>1991</b> , 36, 3-34	2
1988	Association of HSP70 with the adenovirus type 5 fiber protein in infected HEp-2 cells. <b>1991</b> , 180, 120-5	48
1987	Immunological evidence for the association between simian virus 40 115-kDa super T antigen and hsp70 proteins in rat, monkey, and human cells. <b>1991</b> , 180, 285-93	13
1986	Heat shock induces thermotolerance and inhibition of lysis in a lysogenic strain of <i>Lactococcus lactis</i> . <b>1991</b> , 14, 1-9	24
1985	Chaperoning protein repair. <b>1991</b> , 1, 177-8	4
1984	Oxidative stress as a causal factor in differentiation and aging: a unifying hypothesis. <b>1991</b> , 26, 511-7	3
1983	Effects of copper and tributyltin on stress protein abundance in the rotifer <i>Brachionus plicatilis</i> . <b>1991</b> , 98, 385-90	21
1982	HSP70 and other possible heat shock or oxidative stress proteins are induced in skeletal muscle, heart, and liver during exercise. <b>1991</b> , 11, 239-46	277
1981	Heat-shock induced tolerance to the embryotoxic effects of hyperthermia and cadmium in mouse embryos in vitro. <b>1991</b> , 43, 83-94	26
1980	Role of glutathione and hsp 70 in the acquisition of thermotolerance in postimplantation rat embryos. <b>1991</b> , 43, 229-39	42
1979	Ocular distribution of 70-kDa heat-shock protein in rats with normal and dystrophic retinas. <b>1991</b> , 264, 497-506	18
1978	Function of DnaJ and DnaK as chaperones in origin-specific DNA binding by RepA. <b>1991</b> , 350, 165-7	209
1977	Hsp104 is a highly conserved protein with two essential nucleotide-binding sites. <b>1991</b> , 353, 270-3	251
1976	Stress-induced oligomerization and chromosomal relocalization of heat-shock factor. <b>1991</b> , 353, 822-7	354
1975	Expression of heat shock protein 70 and heat shock cognate 70 messenger RNAs in rat cortex and cerebellum after heat shock or amphetamine treatment. <b>1991</b> , 56, 2060-71	118

1974	Gene expression associated with water-stress adaptation of rice cells and identification of two genes as hsp 70 and ubiquitin. <b>1991</b> , 82, 449-457	27
1973	Sequencing, mutational analysis, and transcriptional regulation of the Escherichia coli htrB gene. <b>1991</b> , 5, 2285-92	41
1972	Localization of 70 kDa stress protein mRNA induction in gerbil brain after ischemia. <b>1991</b> , 11, 432-9	192
1971	The respiratory response to heat shock in <i>Neurospora crassa</i> . <b>1991</b> , 81, 317-322	10
1970	Evidence for the localization of the nuclear-coded 22-kDa heat-shock protein in a subfraction of thylakoid membranes. <b>1991</b> , 198, 375-81	33
1969	Constitutive expression of heat-shock protein 70 in mammalian cells confers thermoresistance. <b>1991</b> , 199, 35-9	157
1968	Expression of heat shock protein epitopes in tubular aggregates. <b>1991</b> , 14, 219-25	30
1967	Glutamine is a powerful effector of heat shock protein expression in <i>Drosophila</i> Kc cells. <b>1991</b> , 146, 180-90	43
1966	Induction of heat-shock response and alterations of protein phosphorylation by a novel topoisomerase II inhibitor, withangulatin A, in 9L rat brain tumor cells. <b>1991</b> , 149, 66-76	29
1965	Mycobacterial heat-shock proteins as carrier molecules. <b>1991</b> , 21, 2297-302	81
1964	Temperature-induced stress abrogates co-stimulatory function in antigen-presenting cells. <b>1991</b> , 21, 2791-5	12
1963	The characterization and use of different antibodies against the hsp70 major heat shock protein family for the development of an immunoassay. <b>1991</b> , 12, 670-3	10
1962	Fragile collagen and the lethal multiple pterygium syndrome: does heat stress play a role?. <b>1991</b> , 38, 630-3	13
1961	Regulation of heat shock protein synthesis in rat astrocytes. <b>1991</b> , 28, 352-8	33
1960	Purkinje cell toxicity of beta-aminopropionitrile in the rat. <b>1991</b> , 419, 403-8	12
1959	Molecular characterization of specific heat shock proteins in <i>Bacillus subtilis</i> . <b>1991</b> , 22, 231-236	27
1958	Influence of temperature on the proliferative response of rainbow trout gonadal fibroblasts to cortisol and RU 486. <b>1991</b> , 9, 261-9	9
1957	Heat shock proteins in immunopathology. <b>1991</b> , 3, 924-9	26

1956	Induction of a heat-shock-type response in <i>Saccharomyces cerevisiae</i> following glucose limitation. <b>1991</b> , 7, 367-78	32
1955	Functional analysis of a conserved amino-terminal region of HSP70 by site-directed mutagenesis. <b>1991</b> , 7, 699-716	7
1954	Stress protein synthesis by crayfish CNS tissue in vitro. <b>1991</b> , 16, 533-42	21
1953	Parasite heat-shock proteins and host responses: the balance between protection and immunopathology. <b>1991</b> , 13, 37-53	9
1952	Heat-shock proteins and autoimmunity in humans. <b>1991</b> , 13, 81-98	20
1951	Heat shock proteins in host-parasite interactions. <b>1991</b> , 12, A38-41	63
1950	Comparison between in vivo and in vitro heat-induced changes in amphibian lampbrush chromosomes. <b>1991</b> , 100, 79-86	3
1949	Analysis of conserved domains identifies a unique structural feature of a chloroplast heat shock protein. <b>1991</b> , 226, 425-31	81
1948	Alfalfa heat shock genes are differentially expressed during somatic embryogenesis. <b>1991</b> , 16, 999-1007	122
1947	Sequences of two hsc 70 cDNAs from <i>Lycopersicon esculentum</i> . <b>1991</b> , 16, 475-8	20
1946	A developmentally regulated early-embryogenesis protein in pea ( <i>Pisum sativum</i> L.) is related to the heat-shock protein (HSP70) gene family. <b>1991</b> , 184, 350-5	10
1945	Molecular cloning and characterization of two distinct hsp85 sequences from the steroid responsive fungus <i>Achlya ambisexualis</i> . <b>1991</b> , 19, 383-8	24
1944	Dual modes of transcriptional and translational initiation of SSP1, the gene for a mitochondrial HSP70, responding to heat-shock in <i>Schizosaccharomyces pombe</i> . <b>1991</b> , 19, 5331-7	6
1943	The expression of heat shock protein and cognate genes during plant development. <b>1991</b> , 17, 85-105	17
1942	Heat shock proteins and systemic lupus erythematosus. <b>1991</b> , 1, 3-8	13
1941	Stress-induced heat shock protein 70 expression in adrenal cortex: an adrenocorticotrophic hormone-sensitive, age-dependent response. <b>1991</b> , 88, 9873-7	181
1940	Rapid induction of heme oxygenase 1 mRNA and protein by hyperthermia in rat brain: heme oxygenase 2 is not a heat shock protein. <b>1991</b> , 88, 5364-8	237
1939	Modular recognition of 5-base-pair DNA sequence motifs by human heat shock transcription factor. <b>1991</b> , 11, 3504-14	27



1938	The tobacco luminal binding protein is encoded by a multigene family. <b>1991</b> , 3, 1025-35	197
1937	Inducing and assaying heat-shock response in <i>Saccharomyces cerevisiae</i> . <b>1991</b> , 194, 710-7	37
1936	The Tobacco Luminal Binding Protein Is Encoded by a Multigene Family. <b>1991</b> , 3, 1025	3
1935	Analysis of RNA for transcripts for catalase and SP71 in rat hearts after in vivo hyperthermia. <b>1991</b> , 69, 375-82	74
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1933	Alpha B-crystallin is a small heat shock protein. <b>1991</b> , 88, 3652-6	484
1932	Stress-induced expression of the <i>Escherichia coli</i> phage shock protein operon is dependent on sigma 54 and modulated by positive and negative feedback mechanisms. <b>1991</b> , 5, 1912-23	105
1931	Isolation of a cDNA for HSF2: evidence for two heat shock factor genes in humans. <b>1991</b> , 88, 6911-5	310
1930	Characterization of YDJ1: a yeast homologue of the bacterial dnaJ protein. <b>1991</b> , 114, 609-21	243
1929	Growth factors acting via tyrosine kinase receptors induce HSP90 alpha gene expression. <b>1991</b> , 4, 317-27	34
1928	Biochemical and molecular actions of interleukin-1 on pancreatic beta-cells. <b>1991</b> , 10, 241-53	73
1927	Enhanced expression of heat shock protein gene in kidney lymphoid cells of lupus-prone mice during growing process. <b>1991</b> , 10, 1-5	4
1926	Induction of increased thermotolerance in <i>Saccharomyces cerevisiae</i> may be triggered by a mechanism involving intracellular pH. <b>1991</b> , 137, 1701-8	81
1925	Characterization of SIS1, a <i>Saccharomyces cerevisiae</i> homologue of bacterial dnaJ proteins. <b>1991</b> , 114, 623-38	183
1924	Compartmentation of Animal Enzymes: Physiological and Evolutionary Significance. <b>1991</b> , 31, 493-503	2
1923	Liposomal delivery of purified heat shock protein hsp70 into rat pancreatic islets as protection against interleukin 1 beta-induced impaired beta-cell function. <b>1991</b> , 40, 1418-22	80
1922	Suppression of virus replication by prostaglandin A is associated with heat shock protein synthesis. <b>1991</b> , 72 ( Pt 8), 1877-85	35
1921	Identification of a gene, closely linked to dnaK, which is required for high-temperature growth of <i>Escherichia coli</i> . <b>1991</b> , 137, 1271-7	11

1920	Expression of a Conserved Family of Cytoplasmic Low Molecular Weight Heat Shock Proteins during Heat Stress and Recovery. <b>1991</b> , 96, 1038-47	124
1919	A 25-kD inhibitor of actin polymerization is a low molecular mass heat shock protein. <b>1991</b> , 114, 255-61	398
1918	Inhibition of the activation of heat shock factor in vivo and in vitro by flavonoids. <b>1992</b> , 12, 3490-8	188
1917	Heat-shock protein synthesis in chicken macrophages: influence of in vivo and in vitro heat shock, lead acetate, and lipopolysaccharide. <b>1992</b> , 71, 988-98	17
1916	Structure and Expression of a Heat-Shock Protein 83 Gene of Pharbitis nil. <b>1992</b> , 100, 1764-71	28
1915	Isolation and analysis of the expression of two genes for the 81-kilodalton heat-shock proteins from Arabidopsis. <b>1992</b> , 99, 383-90	74
1914	Stress proteins, self defence, and the myocardium. <b>1992</b> , 67, 279-80	1
1913	Antibody to a 63 kilodalton insect protein in ankylosing spondylitis. <b>1992</b> , 51, 334-9	5
1912	Molecular and physiological analysis of a heat-shock response in wheat. <b>1992</b> , 99, 1455-60	8
1911	Developmental expression of tomato heat-shock cognate protein 80. <b>1992</b> , 100, 801-11	58
1910	The identification of a heat-shock protein complex in chloroplasts of barley leaves. <b>1992</b> , 100, 2081-9	42
1909	Comparison of heat-shock-induced and lipopolysaccharide-induced protein changes and tumoricidal activity in a chicken mononuclear cell line. <b>1992</b> , 71, 979-87	14
1908	Molecular changes associated with heat-shock treatment in avian mononuclear and lymphoid lineage cells. <b>1992</b> , 71, 473-81	17
1907	Antibodies against 70-kD heat shock cognate protein inhibit mediated nuclear import of karyophilic proteins. <b>1992</b> , 119, 1047-61	163
1906	Transcription of the genes encoding the small heat shock protein ubiquitin is unchanged in patients with systemic lupus erythematosus. <b>1992</b> , 13, 197-200	7
1905	Protein Synthesis in Maize during Anaerobic and Heat Stress. <b>1992</b> , 99, 615-20	36
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1903	Heat shock proteins and thermoresistance in lizards. <b>1992</b> , 89, 1666-70	114

1902	No independent association between HSP70 gene polymorphism and IDDM. <b>1992</b> , 41, 788-91	28
1901	Homeotic gene Antennapedia mRNA contains 5'-noncoding sequences that confer translational initiation by internal ribosome binding. <b>1992</b> , 6, 1643-53	180
1900	Genetic analysis of heat shock response in three <i>Drosophila</i> species of the obscura group. <b>1992</b> , 35, 870-80	23
1899	Heat-shock response in <i>Fonsecaea pedrosoi</i> , a pathogenic fungus. <b>1992</b> , 38, 1286-91	3
1898	Emerging role of heat shock proteins in biology and medicine. <b>1992</b> , 24, 249-58	82
1897	The DnaK chaperone modulates the heat shock response of <i>Escherichia coli</i> by binding to the sigma 32 transcription factor. <b>1992</b> , 89, 3516-20	173
1896	Human homologues of the bacterial heat-shock protein DnaJ are preferentially expressed in neurons. <b>1992</b> , 284 ( Pt 2), 469-76	122
1895	A large decrease in heat-shock-induced proteolysis after tryptophan starvation leads to increased expression of phage lambda lysozyme cloned in <i>Escherichia coli</i> . <b>1992</b> , 286 ( Pt 1), 187-91	8
1894	Cloning, sequencing, and molecular analysis of the dnaK locus from <i>Bacillus subtilis</i> . <b>1992</b> , 174, 3300-10	258
1893	The heat shock response in transgenic plants: the use of chimaeric heat shock genes. <b>1992</b> , 247-266	3
1892	Induction of heat shock protein in interdental cells by hyperthermia. <b>1992</b> , 107, 769-74	16
1891	The Nonobese Diabetic (NOD) Mouse: A Model for the Study of the Cell Biology of the Pathogenesis of an Organ-Specific Autoimmune Disease. <b>1992</b> , 5, 157-196	1
1890	Recognition and killing of tumour cells expressing heat shock protein 65 kD with immunotoxins containing saporin. <b>1992</b> , 66, 427-32	24
1889	Activation of heat shock factor 2 during hemin-induced differentiation of human erythroleukemia cells. <b>1992</b> , 12, 4104-11	251
1888	Cooperation of GroEL/GroES and DnaK/DnaJ heat shock proteins in preventing protein misfolding in <i>Escherichia coli</i> . <b>1992</b> , 89, 10341-4	193
1887	Heat shock protein hsp70 protects cells from thermal stress even after deletion of its ATP-binding domain. <b>1992</b> , 89, 2036-40	182
1886	MAS5, a yeast homolog of DnaJ involved in mitochondrial protein import. <b>1992</b> , 12, 283-91	143
1885	Induction of HSP70 gene expression by the antiproliferative prostaglandin PGA2: a growth-dependent response mediated by activation of heat shock transcription factor. <b>1992</b> , 12, 1528-34	66

1884	The transport of proteins into the nucleus requires the 70-kilodalton heat shock protein or its cytosolic cognate. <b>1992</b> , 12, 2186-92	324
1883	Characterization of cspB, a <i>Bacillus subtilis</i> inducible cold shock gene affecting cell viability at low temperatures. <b>1992</b> , 174, 6326-35	207
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1881	Characterization of a new member of the sea urchin <i>Paracentrotus lividus</i> hsp70 gene family and its expression. <b>1992</b> , 121, 353-8	21
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1879	Prevention of protein denaturation under heat stress by the chaperonin Hsp60. <b>1992</b> , 258, 995-8	256
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1873	Effects of heat shock on neuroblastoma (N1E 115) cell proliferation and differentiation. <b>1992</b> , 200, 89-96	17
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1861	Characterization of the major 68 kDa heat shock protein in a rat transformed astroglial cell line. <b>1992</b> , 12, 203-8	8
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1838	Heat shock proteins of barley mitochondria and chloroplasts. Identification of organellar hsp 10 and 12: putative chaperonin 10 homologues. <b>1992</b> , 305, 147-50	21
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1825	Stress and immunological recognition in host-pathogen interactions. <b>1992</b> , 174, 4193-6	48
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