Margarita Salas

List of Publications by Citations

299 papers	9,046 citations	48 h-index	79 g-index
306 ext. papers	9,531 ext. citations	8.7 avg, IF	5.69 L-index

#	Paper	IF	Citations
299	A conserved 3R---5Rexonuclease active site in prokaryotic and eukaryotic DNA polymerases. *Cell*, **1989**, 59, 219-28	56.2	414
298	Protein-priming of DNA replication. *Annual Review of Biochemistry*, **1991**, 60, 39-71	29.1	366
297	Glucokinase and Hexokinase in Liver in Relation to Glycogen Synthesis. *Journal of Biological Chemistry*, **1963**, 238, PC1175-PC1177	5.4	252
296	A general structure for DNA-dependent DNA polymerases. *Gene*, **1991**, 100, 27-38	3.8	219
295	Characterization of a protein covalently linked to the 5Rtermini of the DNA of Bacillus subtilis phage phi29. *Journal of Molecular Biology*, **1978**, 119, 269-91	6.5	187
294	Insulin-dependent Synthesis of Liver Glucokinase in the Rat. *Journal of Biological Chemistry*, **1963**, 238, 3535-3538	5.4	187
293	Spontaneous and Enzymatically Catalyzed Anomerization of Glucose 6-Phosphate and Anomeric Specificity of Related Enzymes. *Journal of Biological Chemistry*, **1965**, 240, 561-568	5.4	170
292	Phi29 family of phages. *Microbiology and Molecular Biology Reviews*, **2001**, 65, 261-87 ; second page, table of contents	13.2	156
291	Insights into strand displacement and processivity from the crystal structure of the protein-primed DNA polymerase of bacteriophage phi29. *Molecular Cell*, **2004**, 16, 609-18	17.6	130
290	Structures of phi29 DNA polymerase complexed with substrate: the mechanism of translocation in B-family polymerases. *EMBO Journal*, **2007**, 26, 3494-505	13	121
289	Bacillus subtilis phage phi29. Characterization of gene products and functions. *FEBS Journal*, **1976**, 66, 229-41		121
288	Self-replication of DNA by its encoded proteins in liposome-based synthetic cells. *Nature Communications*, **2018**, 9, 1583	17.4	116
287	The protein covalently linked to the 5Rtermini of the DNA of Bacillus subtilis phage phi 29 is involved in the initiation of DNA replication. *Virology*, **1980**, 104, 84-96	3.6	109
286	CITRATE INHIBITION OF PHOSPHOFRUCTOKINASE AND THE PASTEUR EFFECT. *Biochemical and Biophysical Research Communications*, **1965**, 19, 371-6	3.4	102
285	Physical map of bacteriophage ?29 DNA. *Virology*, **1976**, 74, 314-323	3.6	100
284	Direction of Reading of the Genetic Message. *Journal of Biological Chemistry*, **1965**, 240, 3988-3995	5.4	98
283	Suppressor-sensitive mutants and genetic map of Bacillus subtilis bacteriophage phi 29. *Virology*, **1974**, 62, 1-16	3.6	97

282	DNA-protein complex in circular DNA from phage phi-29. *Nature: New Biology*, **1971**, 234, 275-7		94
281	Relating structure to function in phi29 DNA polymerase. *Journal of Biological Chemistry*, **1996**, 271, 8509-12	5.1	90
280	Evidence favouring the hypothesis of a conserved 3'-5' exonuclease active site in DNA-dependent DNA polymerases. *Gene*, **1992**, 112, 139-44	3.8	90
279	The push-pull mechanism of bacteriophage ϕ29 DNA injection. *Molecular Microbiology*, **2004**, 52, 529-40	4.1	85
278	Proofreading dynamics of a processive DNA polymerase. *EMBO Journal*, **2009**, 28, 2794-802	13	84
277	Overproduction and purification of protein P6 of Bacillus subtilis phage phi 29: role in the initiation of DNA replication. *Nucleic Acids Research*, **1985**, 13, 3083-100	20.1	84
276	Location of the serine residue involved in the linkage between the terminal protein and the DNA of phage phi 29. *Nucleic Acids Research*, **1985**, 13, 7715-28	20.1	82
275	A single tyrosine prevents insertion of ribonucleotides in the eukaryotic-type phi29 DNA polymerase. *Journal of Molecular Biology*, **1999**, 290, 241-51	6.5	78
274	Induced biosynthesis of liver glucokinase. *Advances in Enzyme Regulation*, **1964**, 2, 177-88		78
273	The phi29 DNA polymerase:protein-primer structure suggests a model for the initiation to elongation transition. *EMBO Journal*, **2006**, 25, 1335-43	13	77
272	Terminal protein-primed DNA amplification. *Proceedings of the National Academy of Sciences of the United States of America*, **1994**, 91, 12198-202	11.5	75
271	Replication of phage phi 29 DNA in vitro: role of the viral protein p6 in initiation and elongation. *Nucleic Acids Research*, **1986**, 14, 4923-37	20.1	74
270	Nucleotide sequence of the early genes 3 and 4 of bacteriophage phi 29. *Nucleic Acids Research*, **1982**, 10, 5785-98	20.1	74
269	Structural proteins of bacteriophage phi 29. *Virology*, **1971**, 45, 567-76	3.6	74
268	Two interconvertible forms of yeast phosphofructokinase with different sensitivity to endproduct inhibition. *Biochemical and Biophysical Research Communications*, **1964**, 15, 243-9	3.4	71
267	A specific subdomain in phi29 DNA polymerase confers both processivity and strand-displacement capacity. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 6407-12	11.5	69
266	Helix-destabilizing activity of phi 29 single-stranded DNA binding protein: effect on the elongation rate during strand displacement DNA replication. *Journal of Molecular Biology*, **1995**, 253, 517-29	6.5	68
265	In vitro replication of bacteriophage PRD1 DNA. Characterization of the protein-primed initiation site. *Nucleic Acids Research*, **1993**, 21, 3725-30	20.1	67

264	Characterization of a 3R---5Rexonuclease activity in the phage phi 29-encoded DNA polymerase. *Nucleic Acids Research*, **1985**, 13, 1239-49	20.1	64
263	Bend induced by the phage phi 29 transcriptional activator in the viral late promoter is required for activation. *Journal of Molecular Biology*, **1990**, 211, 713-25	6.5	63
262	Protein-primed DNA replication: a transition between two modes of priming by a unique DNA polymerase. *EMBO Journal*, **1997**, 16, 2519-27	13	62
261	Assembly of Bacillus subtilis phage phe29. 2. Mutants in the cistrons coding for the non-structural proteins. *FEBS Journal*, **1977**, 73, 57-72		57
260	Purification and properties of DNA-dependent RNA polymerase from Bacillus subtilis vegetative cells. *FEBS Journal*, **1971**, 21, 526-35		57
259	Active DNA unwinding dynamics during processive DNA replication. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 8115-20	11.5	56
258	Proteins induced in Bacillusus subtilis infected with bacteriophage 29. *Virology*, **1973**, 56, 291-299	3.6	56
257	Transcription activation or repression by phage psi 29 protein p4 depends on the strength of the RNA polymerase-promoter interactions. *Molecular Cell*, **1997**, 1, 99-107	17.6	55
256	Temperature-sensitive mutants affected in DNA synthesis in phage phi29 of Bacillus subtilis. *FEBS Journal*, **1972**, 31, 367-71		54
255	Assembly of Bacillus subtilis phage phi29. 1. Mutants in the cistrons coding for the structural proteins. *FEBS Journal*, **1977**, 73, 39-55		52
254	An aspartic acid residue in TPR-1, a specific region of protein-priming DNA polymerases, is required for the functional interaction with primer terminal protein. *Journal of Molecular Biology*, **2000**, 304, 289-300	6.5	51
253	Muscle fructose-1, 6-diphosphatase. *Biochemical and Biophysical Research Communications*, **1964**, 17, 150-155	3.4	51
252	Bacteriophage protein-protein interactions. *Advances in Virus Research*, **2012**, 83, 219-98	10.7	50
251	Spo0A, the key transcriptional regulator for entrance into sporulation, is an inhibitor of DNA replication. *EMBO Journal*, **2006**, 25, 3890-9	13	47
250	Characterization of the phage phi 29 protein p5 as a single-stranded DNA binding protein. Function in phi 29 DNA-protein p3 replication. *Nucleic Acids Research*, **1989**, 17, 3663-72	20.1	47
249	Transcription regulation in Bacillus subtilis phage phi 29: expression of the viral promoters throughout the infection cycle. *Virology*, **1995**, 207, 23-31	3.6	46
248	Superhelical path of the DNA in the nucleoprotein complex that activates the initiation of phage phi 29 DNA replication. *Journal of Molecular Biology*, **1993**, 230, 248-59	6.5	46
247	Functional domains in the bacteriophage phi 29 terminal protein for interaction with the phi 29 DNA polymerase and with DNA. *Nucleic Acids Research*, **1989**, 17, 10353-66	20.1	46

246	Isolation of a strong suppressor of nonsense mutations in Bacillus subtilis. *FEBS Journal*, **1976**, 65, 213-23		46
245	Overproduction and purification of the connector protein of Bacillus subtilis phage phi 29. *Nucleic Acids Research*, **1984**, 12, 2351-65	20.1	45
244	Structure of protein-containing replicative intermediates of Bacillus subtilis phage phi 29 DNA. *Virology*, **1982**, 116, 1-18	3.6	45
243	Characterization of a new prokaryotic transcriptional activator and its DNA recognition site. *Journal of Molecular Biology*, **1989**, 208, 225-32	6.5	44
242	Initiation of bacteriophage phi29 DNA replication in vivo: assembly of a membrane-associated multiprotein complex. *Journal of Molecular Biology*, **1997**, 269, 102-12	6.5	43
241	Mutational analysis of phi29 DNA polymerase residues acting as ssDNA ligands for 3R5R exonucleolysis. *Journal of Molecular Biology*, **1998**, 279, 807-22	6.5	43
240	Improvement of Φ29 DNA polymerase amplification performance by fusion of DNA binding motifs. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 16506-11	11.5	42
239	The actin-like MreB cytoskeleton organizes viral DNA replication in bacteria. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 13347-52	11.5	42
238	Functional characterization of the genes coding for the terminal protein and DNA polymerase from bacteriophage GA-1. Evidence for a sliding-back mechanism during protein-primed GA-1 DNA replication. *Journal of Molecular Biology*, **1996**, 264, 453-64	6.5	42
237	Multimeric complexes formed by DNA-binding proteins of low sequence specificity. *Trends in Biochemical Sciences*, **1993**, 18, 202-6	10.3	39
236	Relevance of UP elements for three strong Bacillus subtilis phage phi29 promoters. *Nucleic Acids Research*, **2004**, 32, 1166-76	20.1	38
235	Primer terminus stabilization at the phi 29 DNA polymerase active site. Mutational analysis of conserved motif KXY. *Journal of Biological Chemistry*, **1995**, 270, 2735-40	5.4	38
234	A pRNA-induced structural rearrangement triggers 6S-1 RNA release from RNA polymerase in Bacillus subtilis. *EMBO Journal*, **2012**, 31, 1727-38	13	37
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232	Metal activation of synthetic and degradative activities of phi 29 DNA polymerase, a model enzyme for protein-primed DNA replication. *Biochemistry*, **1992**, 31, 350-9	3.2	37
231	Transcription activation and repression by interaction of a regulator with the alpha subunit of RNA polymerase: the model of phage phi 29 protein p4. *Progress in Molecular Biology and Translational Science*, **1998**, 60, 29-46		36
230	Effects of internal deletions on the priming activity of the phage phi 29 terminal protein. *Gene*, **1989**, 83, 187-95	3.8	36
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228	Mechanisms of initiation of linear DNA replication in prokaryotes. *Genetic Engineering*, **1999**, 21, 159-71		35
227	Cloning and template activity of the origins of replication of phage phi 29 DNA. *Gene*, **1986**, 43, 1-11	3.8	34
226	A new mechanism for the initiation of replication of phi 29 and adenovirus DNA: priming by the terminal protein. *Current Topics in Microbiology and Immunology*, **1984**, 109, 89-106	3.3	34
225	Terminal protein-primed amplification of heterologous DNA with a minimal replication system based on phage Phi29. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 18655-60	11.5	33
224	Functional eukaryotic nuclear localization signals are widespread in terminal proteins of bacteriophages. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 18482-7	11.5	33
223	Mutational analysis of bacteriophage phi 29 DNA polymerase. *Methods in Enzymology*, **1995**, 262, 283-94	1.7	33
222	Viral terminal protein directs early organization of phage DNA replication at the bacterial nucleoid. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 16548-53	11.5	32
221	In vitro replication of bacteriophage PRD1 DNA. Metal activation of protein-primed initiation and DNA elongation. *Nucleic Acids Research*, **1992**, 20, 3971-6	20.1	32
220	A set of expression plasmids for the synthesis of fused and unfused polypeptides in Escherichia coli. *Gene*, **1987**, 58, 67-76	3.8	32
219	Mechano-chemical kinetics of DNA replication: identification of the translocation step of a replicative DNA polymerase. *Nucleic Acids Research*, **2015**, 43, 3643-52	20.1	31
218	Characterization of the bacteriophage phi29-encoded protein p16.7: a membrane protein involved in phage DNA replication. *Molecular Microbiology*, **2001**, 39, 731-46	4.1	31
217	Signals in the phi 29 DNA-terminal protein template for the initiation of phage phi 29 DNA replication. *Virology*, **1986**, 155, 474-83	3.6	31
216	In vivo transcription of bacteriophage phi 29 DNA early and late promoter sequences. *Journal of Molecular Biology*, **1986**, 191, 191-7	6.5	31
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214	Effect of mutations in the "extended -10" motif of three Bacillus subtilis sigmaA-RNA polymerase-dependent promoters. *Journal of Molecular Biology*, **1999**, 286, 683-93	6.5	30
213	The main early and late promoters of Bacillus subtilis phage phi 29 form unstable open complexes with sigma A-RNA polymerase that are stabilized by DNA supercoiling. *Nucleic Acids Research*, **1993**, 21, 935-40	20.1	30
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209	New insights into the RNA-based mechanism of action of the anticancer drug 5Rfluorouracil in eukaryotic cells. *PLoS ONE*, **2013**, 8, e78172	3.7	27
208	Site-directed mutagenesis of the YCDTDS amino acid motif of the phi 29 DNA polymerase. *Gene*, **1990**, 94, 45-51	3.8	27
207	Purification in an active form of the phage phi 29 protein p4 that controls the viral late transcription. *Nucleic Acids Research*, **1987**, 15, 7781-93	20.1	27
206	Nucleotide sequence at the termini of the DNA of Streptococcus pneumoniae phage Cp-1. *Virology*, **1984**, 133, 166-71	3.6	27
205	Cloning, nucleotide sequence and high level expression of the gene coding for the connector protein of Bacillus subtilis phage phi 29. *Gene*, **1984**, 30, 87-98	3.8	27
204	Global Transcriptional Analysis of Virus-Host Interactions between Phage ?29 and Bacillus subtilis. *Journal of Virology*, **2016**, 90, 9293-304	6.6	27
203	Editing of misaligned 3Rtermini by an intrinsic 3R5Rexonuclease activity residing in the PHP domain of a family X DNA polymerase. *Nucleic Acids Research*, **2008**, 36, 5736-49	20.1	26
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199	Transcriptional activator of phage phi 29 late promoter: mapping of residues involved in interaction with RNA polymerase and in DNA bending. *Molecular Microbiology*, **1996**, 20, 273-82	4.1	25
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195	Mechanistic comparison of Bacillus subtilis 6S-1 and 6S-2 RNAs--commonalities and differences. *Rna* , **2014**, 20, 348-59	5.8	24
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193	Operator design and mechanism for CarA repressor-mediated down-regulation of the photoinducible carB operon in Myxococcus xanthus. *Journal of Biological Chemistry*, **2004**, 279, 28945-53	5.4	24

192	Compartmentalization of prokaryotic DNA replication. *FEMS Microbiology Reviews*, **2005**, 29, 25-47	15.1	24
191	Role of the "YxGG/A" motif of Phi29 DNA polymerase in protein-primed replication. *Journal of Molecular Biology*, **1999**, 286, 57-69	6.5	24
190	Processive proofreading and the spatial relationship between polymerase and exonuclease active sites of bacteriophage phi29 DNA polymerase. *Journal of Molecular Biology*, **1999**, 292, 39-51	6.5	24
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179	A uracil-DNA glycosylase inhibitor encoded by a non-uracil containing viral DNA. *Journal of Biological Chemistry*, **2006**, 281, 7068-74	5.4	22
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176	A genetic approach to the identification of functional amino acids in protein p6 of Bacillus subtilis phage phi 29. *Molecular Genetics and Genomics*, **1994**, 245, 529-36		22
175	Processive proofreading by the adenovirus DNA polymerase. Association with the priming protein reduces exonucleolytic degradation. *Nucleic Acids Research*, **1997**, 25, 1745-52	20.1	21

174	Transcription activation at a distance by phage phi 29 protein p4. Effect of bent and non-bent intervening DNA sequences. *Journal of Molecular Biology*, **1991**, 219, 403-14	6.5	21
173	Interaction of the bacteriophage phi 29 connector protein with the viral DNA. *Virology*, **1986**, 155, 289-93	3.6	21
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169	Phi 29 DNA polymerase requires the N-terminal domain to bind terminal protein and DNA primer substrates. *Journal of Molecular Biology*, **1998**, 278, 741-55	6.5	19
168	Role of the first aspartate residue of the "YxDTDS" motif of phi29 DNA polymerase as a metal ligand during both TP-primed and DNA-primed DNA synthesis. *Journal of Molecular Biology*, **1998**, 283, 633-42	6.5	19
167	Inverted terminal repeats and terminal proteins of the genomes of pneumococcal phages. *Gene*, **1985**, 36, 341-8	3.8	19
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165	The RGD sequence in phage phi29 terminal protein is required for interaction with phi29 DNA polymerase. *Virology*, **1998**, 248, 12-9	3.6	18
164	Characterization of a Bacillus subtilis 64-kDa DNA polymerase X potentially involved in DNA repair. *Journal of Molecular Biology*, **2008**, 384, 1019-28	6.5	18
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149	The integral membrane protein p16.7 organizes in vivo phi29 DNA replication through interaction with both the terminal protein and ssDNA. *EMBO Journal*, **2003**, 22, 2297-306	13	16
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143	Phage phi 29 DNA polymerase residues involved in the proper stabilisation of the primer-terminus at the 3R5Rexonuclease active site. *Journal of Molecular Biology*, **2000**, 304, 1-9	6.5	15
142	Substitution of the C-terminal domain of the Escherichia coli RNA polymerase alpha subunit by that from Bacillus subtilis makes the enzyme responsive to a Bacillus subtilis transcriptional activator. *Journal of Molecular Biology*, **1998**, 275, 177-85	6.5	15
141	Novel dimeric structure of phage Ø29-encoded protein p56: insights into uracil-DNA glycosylase inhibition. *Nucleic Acids Research*, **2011**, 39, 9779-88	20.1	14
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136	Cloning and expression of gene 2, required for the protein-primed initiation of the Bacillus subtilis phage phi 29 DNA replication. *Gene*, **1984**, 29, 33-40	3.8	14
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