

Kangseok Lee

List of Publications by Year in descending order

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103
papers

2,829
citations

147801

31
h-index

197818

49
g-index

104
all docs

104
docs citations

104
times ranked

2753
citing authors

#	ARTICLE	IF	CITATIONS
1	RNase G complementation of rne null mutation identifies functional interrelationships with RNase E in Escherichia coli. <i>Molecular Microbiology</i> , 2002, 43, 1445-1456.	2.5	164
2	RraA. <i>Cell</i> , 2003, 114, 623-634.	28.9	131
3	Differential modulation of E. coli mRNA abundance by inhibitory proteins that alter the composition of the degradosome. <i>Molecular Microbiology</i> , 2006, 61, 394-406.	2.5	112
4	Crystal Structure of the Periplasmic Component of a Tripartite Macrolide-Specific Efflux Pump. <i>Journal of Molecular Biology</i> , 2009, 387, 1286-1297.	4.2	111
5	Gold nanoparticle-DNA aptamer conjugate-assisted delivery of antimicrobial peptide effectively eliminates intracellular Salmonella enterica serovar Typhimurium. <i>Biomaterials</i> , 2016, 104, 43-51.	11.4	106
6	FOXL2 Interacts with Steroidogenic Factor-1 (SF-1) and Represses SF-1-Induced CYP17 Transcription in Granulosa Cells. <i>Molecular Endocrinology</i> , 2010, 24, 1024-1036.	3.7	104
7	A Streptomyces coelicolor functional orthologue of Escherichia coli RNase E shows shuffling of catalytic and PNPase-binding domains. <i>Molecular Microbiology</i> , 2003, 48, 349-360.	2.5	96
8	In vivo determination of RNA Structure-Function relationships: analysis of the 790 loop in ribosomal RNA 1 Edited by D. E. Draper. <i>Journal of Molecular Biology</i> , 1997, 269, 732-743.	4.2	71
9	Escherichia coli ribonuclease III activity is downregulated by osmotic stress: consequences for the degradation of rdm mRNA in biofilm formation. <i>Molecular Microbiology</i> , 2010, 75, 413-425.	2.5	71
10	Structure of the Tripartite Multidrug Efflux Pump AcrAB-TolC Suggests an Alternative Assembly Mode. <i>Molecules and Cells</i> , 2015, 38, 180-186.	2.6	67
11	RraA, a protein inhibitor of RNase E activity that globally modulates RNA abundance in E. coli. <i>Cell</i> , 2003, 114, 623-34.	28.9	66
12	Effective delivery of anti-miRNA DNA oligonucleotides by functionalized gold nanoparticles. <i>Journal of Biotechnology</i> , 2011, 155, 287-292.	3.8	61
13	Funnel-like Hexameric Assembly of the Periplasmic Adapter Protein in the Tripartite Multidrug Efflux Pump in Gram-negative Bacteria. <i>Journal of Biological Chemistry</i> , 2011, 286, 17910-17920.	3.4	58
14	MCL1ES, a novel variant of MCL1, associates with MCL1L and induces mitochondrial cell death. <i>FEBS Letters</i> , 2009, 583, 2758-2764.	2.8	57
15	Divergent rRNAs as regulators of gene expression at the ribosome level. <i>Nature Microbiology</i> , 2019, 4, 515-526.	13.3	52
16	Functional Implications of an Intermeshing Cogwheel-like Interaction between TolC and MacA in the Action of Macrolide-specific Efflux Pump MacAB-TolC. <i>Journal of Biological Chemistry</i> , 2011, 286, 13541-13549.	3.4	49
17	Crystal Structure of a Soluble Fragment of the Membrane Fusion Protein HlyD in a Type I Secretion System of Gram-Negative Bacteria. <i>Structure</i> , 2016, 24, 477-485.	3.3	49
18	A functionalized gold nanoparticles-assisted universal carrier for antisense DNA. <i>Chemical Communications</i> , 2010, 46, 4151.	4.1	48

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19	Gold nanoparticle-DNA aptamer composites as a universal carrier for in vivo delivery of biologically functional proteins. <i>Journal of Controlled Release</i> , 2014, 196, 287-294.	9.9	48
20	Antimicrobial peptide-loaded gold nanoparticle-DNA aptamer conjugates as highly effective antibacterial therapeutics against <i>Vibrio vulnificus</i> . <i>Scientific Reports</i> , 2017, 7, 13572.	3.3	48
21	RNase E Maintenance of Proper FtsZ/FtsA Ratio Required for Nonfilamentous Growth of <i>Escherichia coli</i> Cells but Not for Colony-Forming Ability. <i>Journal of Bacteriology</i> , 2006, 188, 5145-5152.	2.2	46
22	Assembly and Channel Opening of Outer Membrane Protein in Tripartite Drug Efflux Pumps of Gram-negative Bacteria. <i>Journal of Biological Chemistry</i> , 2012, 287, 11740-11750.	3.4	46
23	Functional Relationships between the AcrA Hairpin Tip Region and the TolC Aperture Tip Region for the Formation of the Bacterial Tripartite Efflux Pump AcrAB-TolC. <i>Journal of Bacteriology</i> , 2010, 192, 4498-4503.	2.2	45
24	Crystal Structure of the Periplasmic Region of MacB, a Noncanonic ABC Transporter. <i>Biochemistry</i> , 2009, 48, 5218-5225.	2.5	44
25	Membrane Fusion Proteins of Type I Secretion System and Tripartite Efflux Pumps Share a Binding Motif for TolC in Gram-Negative Bacteria. <i>PLoS ONE</i> , 2012, 7, e40460.	2.5	44
26	Delivery of shRNA using gold nanoparticle-DNA oligonucleotide conjugates as a universal carrier. <i>Biochemical and Biophysical Research Communications</i> , 2010, 398, 542-546.	2.1	42
27	Inhibition of Xenograft Tumor Growth by Gold Nanoparticle-DNA Oligonucleotide Conjugates-Assisted Delivery of BAX mRNA. <i>PLoS ONE</i> , 2013, 8, e75369.	2.5	40
28	The tip region of the MacA hairpin is important for the binding to TolC to the <i>Escherichia coli</i> MacAB-TolC pump. <i>Biochemical and Biophysical Research Communications</i> , 2010, 394, 962-965.	2.1	37
29	Stability of the Osmoregulated Promoter-Derived <i>proP</i> mRNA Is Posttranscriptionally Regulated by RNase III in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2015, 197, 1297-1305.	2.2	37
30	NM23-H2 involves in negative regulation of Diva and Bcl2L10 in apoptosis signaling. <i>Biochemical and Biophysical Research Communications</i> , 2007, 359, 76-82.	2.1	35
31	Modulation of biological processes in the nucleus by delivery of DNA oligonucleotides conjugated with gold nanoparticles. <i>Biomaterials</i> , 2011, 32, 2593-2604.	11.4	34
32	Inhibitory effects of RraA and RraB on RNase E-related enzymes imply conserved functions in the regulated enzymatic cleavage of RNA. <i>FEMS Microbiology Letters</i> , 2008, 285, 10-15.	1.8	33
33	FOX2 posttranslational modifications mediated by GSK3 determine the growth of granulosa cell tumours. <i>Nature Communications</i> , 2014, 5, 2936.	12.8	33
34	Gold nanoparticle-assisted delivery of small, highly structured RNA into the nuclei of human cells. <i>Biochemical and Biophysical Research Communications</i> , 2011, 416, 178-183.	2.1	30
35	Antibiotic stress-induced modulation of the endoribonucleolytic activity of RNase III and RNase G confers resistance to aminoglycoside antibiotics in <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2014, 42, 4669-4681.	14.5	28
36	Two Tandem RNase III Cleavage Sites Determine betT mRNA Stability in Response to Osmotic Stress in <i>Escherichia coli</i> . <i>PLoS ONE</i> , 2014, 9, e100520.	2.5	25

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37	RNase III Controls the Degradation of <i>corA</i> mRNA in Escherichia coli. Journal of Bacteriology, 2012, 194, 2214-2220.	2.2	24
38	RraA rescues Escherichia coli cells over-producing RNase E from growth arrest by modulating the ribonucleolytic activity. Biochemical and Biophysical Research Communications, 2006, 345, 1372-1376.	2.1	23
39	HIP1R Interacts with a Member of Bcl-2 Family, BCL2L10, and Induces BAK-dependent Cell Death. Cellular Physiology and Biochemistry, 2009, 23, 043-052.	1.6	23
40	Functional Role of <i>bdm</i> During Flagella Biogenesis in Escherichia coli. Current Microbiology, 2015, 70, 369-373.	2.2	23
41	Rediscovery of antimicrobial peptides as therapeutic agents. Journal of Microbiology, 2021, 59, 113-123.	2.8	23
42	Heterogeneous rRNAs are differentially expressed during the morphological development of <i>Streptomyces coelicolor</i> . FEMS Microbiology Letters, 2007, 275, 146-152.	1.8	21
43	FOXL2 directs DNA double-strand break repair pathways by differentially interacting with Ku. Nature Communications, 2020, 11, 2010.	12.8	21
44	Inhibition of discoidin domain receptor 2-mediated lung cancer cells progression by gold nanoparticle-aptamer-assisted delivery of peptides containing transmembrane-juxtamembrane 1/2 domain. Biochemical and Biophysical Research Communications, 2015, 464, 392-395.	2.1	20
45	Inhibition of xenograft tumor growth in mice by gold nanoparticle-assisted delivery of short hairpin RNAs against Mcl-1L. Journal of Biotechnology, 2011, 156, 89-94.	3.8	19
46	The β -barrel tip region of Escherichia coli TolC homologs of Vibrio vulnificus interacts with the MacA protein to form the functional macrolide-specific efflux pump MacAB-TolC. Journal of Microbiology, 2013, 51, 154-159.	2.8	19
47	Impaired development of female mouse offspring maternally exposed to simazine. Environmental Toxicology and Pharmacology, 2014, 38, 845-851.	4.0	18
48	The bacterial endoribonuclease RNase E can cleave RNA in the absence of the RNA chaperone Hfq. Journal of Biological Chemistry, 2019, 294, 16465-16478.	3.4	18
49	An alternative miRISC targets a cancer-associated coding sequence mutation in FOXL2. EMBO Journal, 2020, 39, e104719.	7.8	18
50	Interaction Mediated by the Putative Tip Regions of MdsA and MdsC in the Formation of a Salmonella-Specific Tripartite Efflux Pump. PLoS ONE, 2014, 9, e100881.	2.5	17
51	Effects of 3' Terminus Modifications on mRNA Functional Decay during in Vitro Protein Synthesis. Journal of Biological Chemistry, 2001, 276, 23268-23274.	3.4	16
52	Effects of Escherichia coli RraA Orthologs of Vibrio vulnificus on the Ribonucleolytic Activity of RNase E In Vivo. Current Microbiology, 2009, 58, 349-353.	2.2	16
53	Genetic Approaches to Studying Protein Synthesis: Effects of Mutations at 5'16 and A535 in Escherichia coli 16S rRNA. Journal of Nutrition, 2001, 131, 2994S-3004S.	2.9	15
54	MdsABC-Mediated Pathway for Pathogenicity in Salmonella enterica Serovar Typhimurium. Infection and Immunity, 2015, 83, 4266-4276.	2.2	15

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55	Regulation of Escherichia coli RNase III activity. Journal of Microbiology, 2015, 53, 487-494.	2.8	14
56	Identification of Amino Acid Residues in the Catalytic Domain of RNase E Essential for Survival of <i>Escherichia coli</i> : Functional Analysis of DNase I Subdomain. Genetics, 2008, 179, 1871-1879.	2.9	13
57	Functional analysis of Vibrio vulnificus RND efflux pumps homologous to Vibrio cholerae VexAB and VexCD, and to Escherichia coli AcrAB. Journal of Microbiology, 2015, 53, 256-261.	2.8	13
58	Enhanced protein-mediated binding between oligonucleotide-gold nanoparticle composites and cell surfaces: co-transport of proteins and composites. Journal of Materials Chemistry, 2012, 22, 25036.	6.7	12
59	Molecular architecture of the bacterial tripartite multidrug efflux pump focusing on the adaptor bridging model. Journal of Microbiology, 2015, 53, 355-364.	2.8	12
60	Characterization of Heterogeneous LSU rRNA Profiles in Streptomyces coelicolor Under Different Growth Stages and Conditions. Current Microbiology, 2008, 57, 537-541.	2.2	11
61	Interaction between the β -barrel tip of Vibrio vulnificus TolC homologs and AcrA implies the adapter bridging model. Journal of Microbiology, 2014, 52, 148-153.	2.8	10
62	Stoichiometry and mechanistic implications of the MacAB-TolC tripartite efflux pump. Biochemical and Biophysical Research Communications, 2017, 494, 668-673.	2.1	10
63	RNase G controls tpiA mRNA abundance in response to oxygen availability in Escherichia coli. Journal of Microbiology, 2019, 57, 910-917.	2.8	10
64	Base substitutions at scissile bond sites are sufficient to alter RNA-binding and cleavage activity of RNase III. FEMS Microbiology Letters, 2011, 315, 30-37.	1.8	9
65	Upregulation of RNase E activity by mutation of a site that uncompetitively interferes with RNA binding. RNA Biology, 2011, 8, 1022-1034.	3.1	9
66	RNase III Controls mltD mRNA Degradation in Escherichia coli. Current Microbiology, 2014, 68, 518-523.	2.2	9
67	Identification and Validation of Differential Phosphorylation Sites of the Nuclear FOXL2 Protein as Potential Novel Biomarkers for Adult-Type Granulosa Cell Tumors. Journal of Proteome Research, 2015, 14, 2446-2456.	3.7	9
68	Functional Analysis of Vibrio vulnificus Orthologs of Escherichia coli RraA and RNase E. Current Microbiology, 2016, 72, 716-722.	2.2	9
69	Substrate-dependent effects of quaternary structure on RNase E activity. Genes and Development, 2021, 35, 286-299.	5.9	9
70	Endoribonuclease-mediated control of hns mRNA stability constitutes a key regulatory pathway for Salmonella Typhimurium pathogenicity island 1 expression. PLoS Pathogens, 2021, 17, e1009263.	4.7	9
71	Gold nanoparticle-DNA aptamer-assisted delivery of antimicrobial peptide effectively inhibits Acinetobacter baumannii infection in mice. Journal of Microbiology, 2022, 60, 128-136.	2.8	9
72	Gene delivery platforms. Biotechnology and Bioprocess Engineering, 2013, 18, 637-647.	2.6	8

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73	RraAS2 requires both scaffold domains of RNase ES for high-affinity binding and inhibitory action on the ribonucleolytic activity. <i>Journal of Microbiology</i> , 2016, 54, 660-666.	2.8	8
74	RraAS1 inhibits the ribonucleolytic activity of RNase ES by interacting with its catalytic domain in <i>Streptomyces coelicolor</i> . <i>Journal of Microbiology</i> , 2017, 55, 37-43.	2.8	8
75	Recent paradigm shift in the assembly of bacterial tripartite efflux pumps and the type I secretion system. <i>Journal of Microbiology</i> , 2019, 57, 185-194.	2.8	8
76	The coordinated action of RNase III and RNase G controls enolase expression in response to oxygen availability in <i>Escherichia coli</i> . <i>Scientific Reports</i> , 2019, 9, 17257.	3.3	8
77	Genetic Analysis of the Invariant Residue G791 in <i>Escherichia coli</i> 16S rRNA Implicates RelA in Ribosome Function. <i>Journal of Bacteriology</i> , 2009, 191, 2042-2050.	2.2	7
78	RNase G participates in processing of the 5'-end of 23S ribosomal RNA. <i>Journal of Microbiology</i> , 2011, 49, 508-511.	2.8	7
79	Intracellular delivery of recombinant proteins via gold nanoparticle-DNA aptamer composites is independent of the protein physicochemical properties and cell type. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 45, 5-10.	5.8	7
80	LRIG2 is a growth suppressor of Hec-1A and Ishikawa endometrial adenocarcinoma cells by regulating PI3K/AKT- and EGFR-mediated apoptosis and cell-cycle. <i>Oncogenesis</i> , 2018, 7, 3.	4.9	7
81	Functional Analysis of TolC Homologs in <i>Vibrio vulnificus</i> . <i>Current Microbiology</i> , 2014, 68, 729-734.	2.2	6
82	Heterogeneous rRNA molecules encoded by <i>Streptomyces coelicolor</i> M145 genome are all expressed and assembled into ribosomes. <i>Journal of Microbiology and Biotechnology</i> , 2007, 17, 1708-11.	2.1	6
83	Studies on a <i>Vibrio vulnificus</i> Functional Ortholog of <i>Escherichia coli</i> RNase E Imply a Conserved Function of RNase E-like Enzymes in Bacteria. <i>Current Microbiology</i> , 2011, 62, 861-865.	2.2	5
84	Crystal structure of <i>Streptomyces coelicolor</i> RraAS2, an unusual member of the RNase E inhibitor RraA protein family. <i>Journal of Microbiology</i> , 2017, 55, 388-395.	2.8	5
85	Functional implications of hexameric assembly of RraA proteins from <i>Vibrio vulnificus</i> . <i>PLoS ONE</i> , 2017, 12, e0190064.	2.5	5
86	Functional implications of the conserved action of regulators of ribonuclease activity. <i>Journal of Microbiology and Biotechnology</i> , 2008, 18, 1353-6.	2.1	5
87	Trans-acting regulators of ribonuclease activity. <i>Journal of Microbiology</i> , 2021, 59, 341-359.	2.8	4
88	Development of DNA aptamers specific for small therapeutic peptides using a modified SELEX method. <i>Journal of Microbiology</i> , 2022, 60, 659-667.	2.8	4
89	A genetic system for RNase E variant-controlled overproduction of ColE1-type plasmid DNA. <i>Journal of Biotechnology</i> , 2011, 152, 171-175.	3.8	3
90	Modulation of RNase E Activity by Alternative RNA Binding Sites. <i>PLoS ONE</i> , 2014, 9, e90610.	2.5	3

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91	Regulator of ribonuclease activity modulates the pathogenicity of <i>Vibrio vulnificus</i> . <i>Journal of Microbiology</i> , 2021, 59, 1133-1141.	2.8	3
92	Expression of Divergent LSU rRNA Genes in the <i>Vibrio vulnificus</i> CMCP6 Genome During Both Infection and Non-Pathogenic Stages. <i>Current Microbiology</i> , 2011, 62, 133-138.	2.2	2
93	Functionalization of single-walled carbon nanotubes with ribonucleic acids. <i>Journal of the Korean Physical Society</i> , 2013, 63, 2199-2203.	0.7	2
94	Bdm-Mediated Regulation of Flagellar Biogenesis in <i>Escherichia coli</i> and <i>Salmonella enterica</i> Serovar Typhimurium. <i>Current Microbiology</i> , 2017, 74, 1015-1020.	2.2	2
95	The immunomodulatory effect of antimicrobial peptide HPA3P restricts <i>Brucella abortus</i> 544 infection in BALB/c mice. <i>Veterinary Microbiology</i> , 2018, 225, 17-24.	1.9	2
96	Genome analysis of <i>Rubritalea profundus</i> SAORIC-165T, the first deep-sea verrucomicrobial isolate, from the northwestern Pacific Ocean. <i>Journal of Microbiology</i> , 2019, 57, 413-422.	2.8	2
97	Regulator of RNase E activity modulates the pathogenicity of <i>Salmonella</i> Typhimurium. <i>Microbial Pathogenesis</i> , 2022, 165, 105460.	2.9	2
98	Functional investigation of residue G791 of <i>Escherichia coli</i> 16S rRNA: implication of initiation factor 1 in the restoration of P-site function. <i>FEMS Microbiology Letters</i> , 2010, 313, 141-147.	1.8	1
99	Identification of a Hyperactive Variant of the SecM Motif Involved in Ribosomal Arrest. <i>Current Microbiology</i> , 2012, 64, 17-23.	2.2	1
100	Implications of <i>Streptomyces coelicolor</i> RraAS1 as an activator of ribonuclease activity of <i>Escherichia coli</i> RNase E. <i>Korean Journal of Microbiology</i> , 2016, 52, 243-248.	0.2	1
101	Functional Conservation of RNase III-like Enzymes: Studies on a <i>Vibrio vulnificus</i> Ortholog of <i>Escherichia coli</i> RNase III. <i>Current Microbiology</i> , 2014, 68, 413-418.	2.2	0
102	Trans-acting regulators of ribonuclease activity. <i>Journal of Microbiology</i> , 2021, , .	2.8	0
103	Response to Veitia et al. <i>EMBO Journal</i> , 2021, 40, e108671.	7.8	0