

Paul Babitzke

List of Publications by Year in descending order

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106
papers

9,224
citations

34016

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42291

92
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110
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docs citations

110
times ranked

4327
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | CsrA regulation via binding to the base-pairing small RNA Spot 42. <i>Molecular Microbiology</i> , 2022, 117, 32-53. | 1.2 | 17 |
| 2 | Analysis of mRNA Decay Intermediates in <i>Bacillus subtilis</i> Exoribonuclease and RNA Helicase Mutant Strains. <i>MBio</i> , 2022, 13, e0040022. | 1.8 | 3 |
| 3 | Transcriptome-Wide Effects of NusA on RNA Polymerase Pausing in <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 2022, 204, e0053421. | 1.0 | 9 |
| 4 | Expression of <i>Bacillus subtilis</i> ABCF antibiotic resistance factor VmlR is regulated by RNA polymerase pausing, transcription attenuation, translation attenuation and (p)ppGpp. <i>Nucleic Acids Research</i> , 2022, 50, 6174-6189. | 6.5 | 15 |
| 5 | NusG is an intrinsic transcription termination factor that stimulates motility and coordinates gene expression with NusA. <i>ELife</i> , 2021, 10, . | 2.8 | 27 |
| 6 | An incoherent feedforward loop formed by SirA/BarA, HilE and HilD is involved in controlling the growth cost of virulence factor expression by <i>Salmonella Typhimurium</i> . <i>PLoS Pathogens</i> , 2021, 17, e1009630. | 2.1 | 12 |
| 7 | NusG-dependent RNA polymerase pausing is a frequent function of this universally conserved transcription elongation factor. <i>Critical Reviews in Biochemistry and Molecular Biology</i> , 2020, 55, 716-728. | 2.3 | 18 |
| 8 | Diverse Mechanisms and Circuitry for Global Regulation by the RNA-Binding Protein CsrA. <i>Frontiers in Microbiology</i> , 2020, 11, 601352. | 1.5 | 48 |
| 9 | CsrA-Mediated Translational Activation of <i>ymdA</i> Expression in <i>Escherichia coli</i> . <i>MBio</i> , 2020, 11, . | 1.8 | 20 |
| 10 | NusG controls transcription pausing and RNA polymerase translocation throughout the <i>Bacillus subtilis</i> genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21628-21636. | 3.3 | 38 |
| 11 | Structure-seq2 probing of RNA structure upon amino acid starvation reveals both known and novel RNA switches in <i>Bacillus subtilis</i> . <i>Rna</i> , 2020, 26, 1431-1447. | 1.6 | 15 |
| 12 | Regulation of Iron Storage by CsrA Supports Exponential Growth of <i>Escherichia coli</i> . <i>MBio</i> , 2019, 10, . | 1.8 | 27 |
| 13 | Posttranscription Initiation Control of Gene Expression Mediated by Bacterial RNA-Binding Proteins. <i>Annual Review of Microbiology</i> , 2019, 73, 43-67. | 2.9 | 53 |
| 14 | NusG-Dependent RNA Polymerase Pausing and Tylosin-Dependent Ribosome Stalling Are Required for Tylosin Resistance by Inducing 23S rRNA Methylation in <i>Bacillus subtilis</i> . <i>MBio</i> , 2019, 10, . | 1.8 | 18 |
| 15 | In vivo RNA structural probing of uracil and guanine base-pairing by 1-ethyl-3-(3-dimethylaminopropyl)carbodiimide (EDC). <i>Rna</i> , 2019, 25, 147-157. | 1.6 | 37 |
| 16 | Examination of Csr regulatory circuitry using epistasis analysis with RNA-seq (Epi-seq) confirms that CsrD affects gene expression via CsrA, CsrB and CsrC. <i>Scientific Reports</i> , 2018, 8, 5373. | 1.6 | 17 |
| 17 | Global Regulation by CsrA and Its RNA Antagonists. <i>Microbiology Spectrum</i> , 2018, 6, . | 1.2 | 148 |
| 18 | Glyoxals as in vivo RNA structural probes of guanine base-pairing. <i>Rna</i> , 2018, 24, 114-124. | 1.6 | 38 |

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| 19 | Global Regulation by CsrA and Its RNA Antagonists. , 2018, , 339-354. | | 5 |
| 20 | Noncanonical Translation Initiation Comes of Age. Journal of Bacteriology, 2017, 199, . | 1.0 | 4 |
| 21 | Modular Organization of the NusA- and NusG-Stimulated RNA Polymerase Pause Signal That Participates in the Bacillus subtilis trp Operon Attenuation Mechanism. Journal of Bacteriology, 2017, 199, . | 1.0 | 14 |
| 22 | Translational Repression of the RpoS Antiadapter IraD by CsrA Is Mediated via Translational Coupling to a Short Upstream Open Reading Frame. MBio, 2017, 8, . | 1.8 | 38 |
| 23 | Circuitry Linking the Global Csr- and σ^E -Dependent Cell Envelope Stress Response Systems. Journal of Bacteriology, 2017, 199, . | 1.0 | 27 |
| 24 | Global role of the bacterial post-transcriptional regulator CsrA revealed by integrated transcriptomics. Nature Communications, 2017, 8, 1596. | 5.8 | 157 |
| 25 | Regulation of CsrB/C sRNA decay by EIIA ^{Glc} of the phosphoenolpyruvate: carbohydrate phosphotransferase system. Molecular Microbiology, 2016, 99, 627-639. | 1.2 | 62 |
| 26 | Antagonistic control of the turnover pathway for the global regulatory sRNA CsrB by the CsrA and CsrD proteins. Nucleic Acids Research, 2016, 44, 7896-7910. | 6.5 | 54 |
| 27 | NusA-dependent transcription termination prevents misregulation of global gene expression. Nature Microbiology, 2016, 1, 15007. | 5.9 | 68 |
| 28 | Circuitry Linking the Catabolite Repression and Csr Global Regulatory Systems of Escherichia coli. Journal of Bacteriology, 2016, 198, 3000-3015. | 1.0 | 45 |
| 29 | FliW antagonizes CsrA RNA binding by a noncompetitive allosteric mechanism. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9870-9875. | 3.3 | 41 |
| 30 | Eliminating blurry bands in gels with a simple cost-effective repair to the gel cassette. Rna, 2016, 22, 1929-1930. | 1.6 | 1 |
| 31 | Toxin MqsR cleaves single-stranded mRNA with various 5' ends. MicrobiologyOpen, 2016, 5, 370-377. | 1.2 | 9 |
| 32 | NusG Is a Sequence-specific RNA Polymerase Pause Factor That Binds to the Non-template DNA within the Paused Transcription Bubble. Journal of Biological Chemistry, 2016, 291, 5299-5308. | 1.6 | 63 |
| 33 | Ribosomal protein L10(L12) ₄ autoregulates expression of the Bacillus subtilis rplJL operon by a transcription attenuation mechanism. Nucleic Acids Research, 2015, 43, 7032-7043. | 6.5 | 20 |
| 34 | CsrA Participates in a PNPase Autoregulatory Mechanism by Selectively Repressing Translation of <i>pnp</i> Transcripts That Have Been Previously Processed by RNase III and PNPase. Journal of Bacteriology, 2015, 197, 3751-3759. | 1.0 | 30 |
| 35 | <i>csrR</i> , a Paralog and Direct Target of CsrA, Promotes Legionella pneumophila Resilience in Water. MBio, 2015, 6, e00595. | 1.8 | 32 |
| 36 | Regulation of Bacterial Virulence by Csr (Rsm) Systems. Microbiology and Molecular Biology Reviews, 2015, 79, 193-224. | 2.9 | 309 |

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|----|--|-----|-----------|
| 37 | Csr (Rsm) System and Its Overlap and Interplay with Cyclic Di-GMP Regulatory Systems. , 2014, , 201-214. | | 4 |
| 38 | NusG/Spt5: are there common functions of this ubiquitous transcription elongation factor?. Current Opinion in Microbiology, 2014, 18, 68-71. | 2.3 | 43 |
| 39 | Global effects of the DEAD-box RNA helicase DeaD (<sc>CsdA</sc>) on gene expression over a broad range of temperatures. Molecular Microbiology, 2014, 92, 945-958. | 1.2 | 58 |
| 40 | Posttranscriptional regulation on a global scale: form and function of Csr/Rsm systems. Environmental Microbiology, 2013, 15, 313-324. | 1.8 | 264 |
| 41 | CsrA activates <i>flhDC</i> expression by protecting <i>flhDC</i> mRNA from RNase E-mediated cleavage. Molecular Microbiology, 2013, 87, 851-866. | 1.2 | 169 |
| 42 | Dual Posttranscriptional Regulation via a Cofactor-Responsive mRNA Leader. Journal of Molecular Biology, 2013, 425, 3662-3677. | 2.0 | 73 |
| 43 | FliW and FliS Function Independently To Control Cytoplasmic Flagellin Levels in Bacillus subtilis. Journal of Bacteriology, 2013, 195, 297-306. | 1.0 | 55 |
| 44 | Translational Repression of NhaR, a Novel Pathway for Multi-Tier Regulation of Biofilm Circuitry by CsrA. Journal of Bacteriology, 2012, 194, 79-89. | 1.0 | 67 |
| 45 | Gel Mobility Shift Assays to Detect Protein-RNA Interactions. Methods in Molecular Biology, 2012, 905, 201-211. | 0.4 | 41 |
| 46 | Circuitry linking the Csr and stringent response global regulatory systems. Molecular Microbiology, 2011, 80, 1561-1580. | 1.2 | 162 |
| 47 | Integration of a complex regulatory cascade involving the SirA/BarA and Csr global regulatory systems that controls expression of the <i>Salmonella</i> SPI-1 and SPI-2 virulence regulons through HilD. Molecular Microbiology, 2011, 80, 1637-1656. | 1.2 | 138 |
| 48 | Complex regulation of the global regulatory gene <i>csrA</i> : CsrA-mediated translational repression, transcription from five promoters by σ^{70} and σ^S , and indirect transcriptional activation by CsrA. Molecular Microbiology, 2011, 81, 689-704. | 1.2 | 92 |
| 49 | CsrA-FliW interaction governs flagellin homeostasis and a checkpoint on flagellar morphogenesis in Bacillus subtilis. Molecular Microbiology, 2011, 82, 447-461. | 1.2 | 104 |
| 50 | CsrA Represses Translation of <i>sdiA</i> , Which Encodes the N-Acylhomoserine-Lactone Receptor of Escherichia coli, by Binding Exclusively within the Coding Region of <i>sdiA</i> mRNA. Journal of Bacteriology, 2011, 193, 6162-6170. | 1.0 | 47 |
| 51 | Mechanism of NusG-stimulated pausing, hairpin-dependent pause site selection and intrinsic termination at overlapping pause and termination sites in the Bacillus subtilis trp leader. Molecular Microbiology, 2010, 76, 690-705. | 1.2 | 37 |
| 52 | Molecular basis of TRAP ⁵² SL RNA interaction in the Bacillus subtilis trp operon transcription attenuation mechanism. Rna, 2009, 15, 55-66. | 1.6 | 9 |
| 53 | A Genome-Wide Analysis of Small Regulatory RNAs in the Human Pathogen Group A Streptococcus. PLoS ONE, 2009, 4, e7668. | 1.1 | 71 |
| 54 | Regulation of Translation Initiation by RNA Binding Proteins. Annual Review of Microbiology, 2009, 63, 27-44. | 2.9 | 112 |

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| 55 | Molecular Geometry of CsrA (RsmA) Binding to RNA and Its Implications for Regulated Expression. <i>Journal of Molecular Biology</i> , 2009, 392, 511-528. | 2.0 | 103 |
| 56 | Function of the <i>Bacillus subtilis</i> transcription elongation factor NusG in hairpin-dependent RNA polymerase pausing in the <i>trp</i> leader. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 16131-16136. | 3.3 | 58 |
| 57 | TRAP-5' stem-loop interaction increases the efficiency of transcription termination in the <i>Bacillus subtilis</i> <i>trpEDCFBA</i> operon leader region. <i>Rna</i> , 2007, 13, 2020-2033. | 1.6 | 14 |
| 58 | CsrA Inhibits Translation Initiation of <i>Escherichia coli</i> <i>hfq</i> by Binding to a Single Site Overlapping the Shine-Dalgarno Sequence. <i>Journal of Bacteriology</i> , 2007, 189, 5472-5481. | 1.0 | 124 |
| 59 | Translation Control of <i>trpG</i> from Transcripts Originating from the Folate Operon Promoter of <i>Bacillus subtilis</i> Is Influenced by Translation-Mediated Displacement of Bound TRAP, While Translation Control of Transcripts Originating from a Newly Identified <i>trpG</i> Promoter Is Not. <i>Journal of Bacteriology</i> , 2007, 189, 872-879. | 1.0 | 12 |
| 60 | CsrB sRNA family: sequestration of RNA-binding regulatory proteins. <i>Current Opinion in Microbiology</i> , 2007, 10, 156-163. | 2.3 | 387 |
| 61 | CsrA of <i>Bacillus subtilis</i> regulates translation initiation of the gene encoding the flagellin protein (<i>hag</i>) by blocking ribosome binding. <i>Molecular Microbiology</i> , 2007, 64, 1605-1620. | 1.2 | 92 |
| 62 | Mechanism of <i>hcnA</i> mRNA recognition in the Gac/Rsm signal transduction pathway of <i>Pseudomonas fluorescens</i> . <i>Molecular Microbiology</i> , 2007, 66, 341-356. | 1.2 | 90 |
| 63 | RNA Polymerase Pausing Regulates Translation Initiation by Providing Additional Time for TRAP-RNA Interaction. <i>Molecular Cell</i> , 2006, 24, 547-557. | 4.5 | 39 |
| 64 | The <i>trp</i> RNA-binding attenuation protein (TRAP) of <i>Bacillus subtilis</i> regulates translation initiation of <i>ycbK</i> , a gene encoding a putative efflux protein, by blocking ribosome binding. <i>Molecular Microbiology</i> , 2006, 61, 1252-1266. | 1.2 | 22 |
| 65 | Identification of a novel regulatory protein (CsrD) that targets the global regulatory RNAs CsrB and CsrC for degradation by RNase E. <i>Genes and Development</i> , 2006, 20, 2605-2617. | 2.7 | 252 |
| 66 | Comprehensive Alanine-scanning Mutagenesis of <i>Escherichia coli</i> CsrA Defines Two Subdomains of Critical Functional Importance. <i>Journal of Biological Chemistry</i> , 2006, 281, 31832-31842. | 1.6 | 103 |
| 67 | Comprehensive Alanine-scanning Mutagenesis of <i>Escherichia coli</i> CsrA Defines Two Subdomains of Critical Functional Importance. <i>Journal of Biological Chemistry</i> , 2006, 281, 31832-31842. | 1.6 | 22 |
| 68 | CsrA post-transcriptionally represses <i>pgaABCD</i> , responsible for synthesis of a biofilm polysaccharide adhesin of <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2005, 56, 1648-1663. | 1.2 | 280 |
| 69 | RNA sequence and secondary structure participate in high-affinity CsrA-RNA interaction. <i>Rna</i> , 2005, 11, 1579-1587. | 1.6 | 253 |
| 70 | Complexity in Regulation of Tryptophan Biosynthesis in <i>Bacillus subtilis</i> . <i>Annual Review of Genetics</i> , 2005, 39, 47-68. | 3.2 | 143 |
| 71 | Recycling of a regulatory protein by degradation of the RNA to which it binds. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 2747-2751. | 3.3 | 46 |
| 72 | The <i>trp</i> RNA-Binding Attenuation Protein of <i>Bacillus subtilis</i> Regulates Translation of the Tryptophan Transport Gene <i>trpP</i> (<i>yhaG</i>) by Blocking Ribosome Binding. <i>Journal of Bacteriology</i> , 2004, 186, 278-286. | 1.0 | 59 |

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| 73 | Gene replacement method for determining conditions in which <i>Bacillus subtilis</i> genes are essential or dispensable for cell viability. <i>Applied Microbiology and Biotechnology</i> , 2004, 64, 382-386. | 1.7 | 14 |
| 74 | Regulation of transcription attenuation and translation initiation by allosteric control of an RNA-binding protein: the <i>Bacillus subtilis</i> TRAP protein. <i>Current Opinion in Microbiology</i> , 2004, 7, 132-139. | 2.3 | 64 |
| 75 | A novel sRNA component of the carbon storage regulatory system of <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2003, 48, 657-670. | 1.2 | 364 |
| 76 | A Mg ²⁺ -dependent RNA Tertiary Structure Forms in the <i>Bacillus subtilis</i> trp Operon Leader Transcript and Appears to Interfere with trpE Translation Control by Inhibiting TRAP Binding. <i>Journal of Molecular Biology</i> , 2003, 332, 555-574. | 2.0 | 21 |
| 77 | Role of RNA Structure in Transcription Attenuation in <i>Bacillus subtilis</i> : The trpEDCFBA Operon as a Model System. <i>Methods in Enzymology</i> , 2003, 371, 392-404. | 0.4 | 15 |
| 78 | CsrA Regulates Translation of the <i>Escherichia coli</i> Carbon Starvation Gene, <i>cstA</i> , by Blocking Ribosome Access to the <i>cstA</i> Transcript. <i>Journal of Bacteriology</i> , 2003, 185, 4450-4460. | 1.0 | 174 |
| 79 | Phylogenetic conservation of RNA secondary and tertiary structure in the trpEDCFBA operon leader transcript in <i>Bacillus</i> . <i>Rna</i> , 2003, 9, 1502-1515. | 1.6 | 3 |
| 80 | Regulatory Circuitry of the CsrA/CsrB and BarA/UvrY Systems of <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2002, 184, 5130-5140. | 1.0 | 257 |
| 81 | NusA-stimulated RNA polymerase pausing and termination participates in the <i>Bacillus subtilis</i> trp operon attenuation mechanism in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 11067-11072. | 3.3 | 88 |
| 82 | The Anti-trp RNA-binding Attenuation Protein (Anti-TRAP), AT, Recognizes the Tryptophan-activated RNA Binding Domain of the TRAP Regulatory Protein. <i>Journal of Biological Chemistry</i> , 2002, 277, 10608-10613. | 1.6 | 44 |
| 83 | Transcription attenuation. <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2002, 1577, 240-250. | 2.4 | 80 |
| 84 | CsrA regulates glycogen biosynthesis by preventing translation of <i>glgC</i> in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2002, 44, 1599-1610. | 1.2 | 257 |
| 85 | Regulatory Interactions of Csr Components: the RNA Binding Protein CsrA Activates <i>csrB</i> Transcription in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 2001, 183, 6017-6027. | 1.0 | 134 |
| 86 | Positive regulation of motility and <i>flhDC</i> expression by the RNA-binding protein CsrA of <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 2001, 40, 245-256. | 1.2 | 359 |
| 87 | Expression of the <i>Bacillus subtilis</i> trpEDCFBA Operon Is Influenced by Translational Coupling and Rho Termination Factor. <i>Journal of Bacteriology</i> , 2001, 183, 5918-5926. | 1.0 | 43 |
| 88 | Posttranscription Initiation Control of Tryptophan Metabolism in <i>Bacillus subtilis</i> by the trp RNA-Binding Attenuation Protein (TRAP), anti-TRAP, and RNA Structure. <i>Journal of Bacteriology</i> , 2001, 183, 5795-5802. | 1.0 | 77 |
| 89 | trp RNA-Binding Attenuation Protein-5' Stem-Loop RNA Interaction Is Required for Proper Transcription Attenuation Control of the <i>Bacillus subtilis</i> trpEDCFBA Operon. <i>Journal of Bacteriology</i> , 2000, 182, 1819-1827. | 1.0 | 25 |
| 90 | Effects of Mutations in the I-Tryptophan Binding Pocket of the trp RNA-binding Attenuation Protein of <i>Bacillus subtilis</i> . <i>Journal of Biological Chemistry</i> , 2000, 275, 4519-4524. | 1.6 | 55 |

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| 92 | trp RNA-binding Attenuation Protein-mediated Long Distance RNA Refolding Regulates Translation of trpE in <i>Bacillus subtilis</i> . <i>Journal of Biological Chemistry</i> , 1998, 273, 20494-20503. | 1.6 | 84 |
| 93 | Myotonic dystrophy: Molecular windows on a complex etiology. <i>Nucleic Acids Research</i> , 1998, 26, 1363-1368. | 6.5 | 59 |
| 94 | The <i>Escherichia coli</i> mrsC Gene Is Required for Cell Growth and mRNA Decay. <i>Journal of Bacteriology</i> , 1998, 180, 1920-1928. | 1.0 | 32 |
| 95 | The trp RNA-binding attenuation protein regulates TrpG synthesis by binding to the trpG ribosome binding site of <i>Bacillus subtilis</i> . <i>Journal of Bacteriology</i> , 1997, 179, 2582-2586. | 1.0 | 69 |
| 96 | Regulation of tryptophan biosynthesis: Trp being the TRAP or how <i>Bacillus subtilis</i> reinvented the wheel. <i>Molecular Microbiology</i> , 1997, 26, 1-9. | 1.2 | 81 |
| 97 | Interaction of the trp RNA-Binding attenuation protein (TRAP) of <i>Bacillus subtilis</i> with RNA: effects of the number of GAG repeats, the nucleotides separating adjacent repeats, and RNA secondary structure. <i>Journal of Bacteriology</i> , 1996, 178, 5159-5163. | 1.0 | 56 |
| 98 | TRAP, the trp RNA-binding attenuation protein of <i>Bacillus subtilis</i> , is a toroid-shaped molecule that binds transcripts containing GAG or UAG repeats separated by two nucleotides.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 7916-7920. | 3.3 | 73 |
| 99 | trp RNA-binding attenuation protein (TRAP)-trp leader RNA interactions mediate translational as well as transcriptional regulation of the <i>Bacillus subtilis</i> trp operon. <i>Journal of Bacteriology</i> , 1995, 177, 6362-6370. | 1.0 | 99 |
| 100 | Structural Features of L-Tryptophan Required for Activation of TRAP, the trp RNA-binding Attenuation Protein of <i>Bacillus subtilis</i> . <i>Journal of Biological Chemistry</i> , 1995, 270, 12452-12456. | 1.6 | 37 |
| 101 | Reconstitution of <i>Bacillus subtilis</i> trp attenuation in vitro with TRAP, the trp RNA-binding attenuation protein.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1993, 90, 133-137. | 3.3 | 134 |
| 102 | Analysis of mRNA decay and rRNA processing in <i>Escherichia coli</i> multiple mutants carrying a deletion in RNase III. <i>Journal of Bacteriology</i> , 1993, 175, 229-239. | 1.0 | 118 |
| 103 | The mtrAB operon of <i>Bacillus subtilis</i> encodes GTP cyclohydrolase I (MtrA), an enzyme involved in folic acid biosynthesis, and MtrB, a regulator of tryptophan biosynthesis. <i>Journal of Bacteriology</i> , 1992, 174, 2059-2064. | 1.0 | 63 |
| 104 | The Ams (altered mRNA stability) protein and ribonuclease E are encoded by the same structural gene of <i>Escherichia coli</i> .. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991, 88, 1-5. | 3.3 | 301 |
| 105 | New method for generating deletions and gene replacements in <i>Escherichia coli</i> . <i>Journal of Bacteriology</i> , 1989, 171, 4617-4622. | 1.0 | 713 |
| 106 | Aromatic Amino Acid Metabolism in <i>Bacillus subtilis</i> . , 0, , 233-244. | | 16 |