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## Highly Cited Articles

NAR's Impact Factor has increased to 10.162! In recognition of this accomplishment, we've created a collection of highly-cited articles from the journal. These articles are just a sample of the impressive body of research from *Nucleic Acids Research*.

[Pfam: the protein families database](#)

Robert D. Finn; Alex Bateman; Jody Clements; et al.

[limma powers differential expression analyses for RNA-seq and microarray studies](#)

Matthew E. Ritchie; Belinda Phipson; Di Wu; et al.

[Single-cell RNA-seq: advances and future challenges](#)

Antoine-Emmanuel Saliba; Alexander J. Westermann; Stanislaw A. Gorski; et al.

[Large chromosomal deletions and heritable small genetic changes induced by CRISPR/Cas9 in rice](#)

Huanbin Zhou; Bo Liu; Donald P. Weeks; et al.

[STRING v10: protein-protein interaction networks, integrated over the tree of life](#)

Damian Szklarczyk; Andrea Franceschini; Stefan Wyder; et al.

[iPro54-PseKNC: a sequence-based predictor for identifying sigma-54 promoters in prokaryote with pseudo k-tuple nucleotide composition](#)

Hao Lin; En-Ze Deng; Hui Ding; et al.

[Data, information, knowledge and principle: back to metabolism in KEGG](#)

Minoru Kanehisa; Susumu Goto; Yoko Sato; et al.

[miRBase: annotating high confidence microRNAs using deep sequencing data](#)

Ana Kozomara; Sam Griffiths-Jones

[SWISS-MODEL: modelling protein tertiary and quaternary structure using evolutionary information](#)

Marco Biasini; Stefan Bienert; Andrew Waterhouse; et al.

[Targeted delivery of antisense oligonucleotides to hepatocytes using triantennary N-acetyl galactosamine improves potency 10-fold in mice](#)

Thazha P. Prakash; Mark J. Graham; Jinghua Yu; et al.

[G-quadruplexes and their regulatory roles in biology](#)

Daniela Rhodes; Hans J. Lipps

[CDD: NCBI's conserved domain database](#)

Aron Marchler-Bauer; Myra K. Derbyshire; Noreen R. Gonzales; et al.

[Deciphering key features in protein structures with the new ENDscript server](#)

Xavier Robert; Patrice Gouet

[The NHGRI GWAS Catalog, a curated resource of SNP-trait associations](#)

Danielle Welter; Jacqueline MacArthur; Joannella Morales; et al.

[antiSMASH 3.0-a comprehensive resource for the genome mining of biosynthetic gene clusters](#)

Tilmann Weber; Kai Blin; Srikanth Duddela; et al.

[COSMIC: exploring the world's knowledge of somatic mutations in human cancer](#)

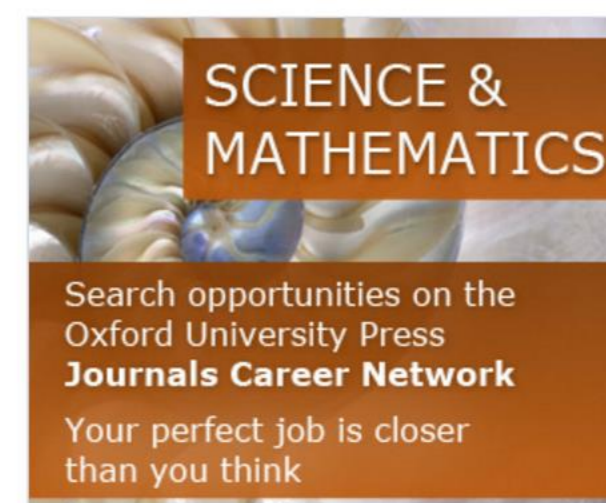
Simon A. Forbes; David Beare; Prasad Gunasekaran; et al.

[CRISPR/Cas9 systems have off-target activity with insertions or deletions between target DNA and guide RNA sequences](#)

Yanni Lin; Thomas J. Cradick; Matthew T. Brown; et al.

[The carbohydrate-active enzymes database \(CAZy\) in 2013](#)

Vincent Lombard; Hemalatha Golaconda Ramulu; Elodie Drula; et al.



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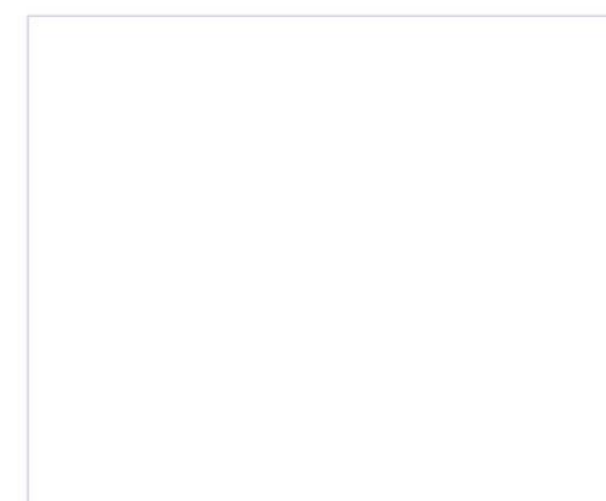
Capturing the 'ome': the expanding molecular toolbox for RNA and DNA library construction

Structural insights into the unique mechanism of transcription activation by *Caulobacter crescentus* GcrA

*Pseudomonas aeruginosa* MutL promotes large chromosomal deletions through non-homologous end joining to prevent bacteriophage predation

In cell mutational interference mapping experiment (in cell MIME) identifies the 5' polyadenylation signal as a dual regulator of HIV-1 genomic RNA production and packaging

Cellular uptake mediated by epidermal growth factor receptor facilitates the intracellular activity of phosphorothioate-modified antisense oligonucleotides



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