

Resource Summary Report

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[DNAtraffic](#)

RRID:SCR_008886

Type: Tool

Proper Citation

DNAtraffic (RRID:SCR_008886)

Resource Information

URL: <http://dnattraffic.ibb.waw.pl/>

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Description: DNAtraffic database is dedicated to be an unique comprehensive and richly annotated database of genome dynamics during the cell life. DNAtraffic contains extensive data on the nomenclature, ontology, structure and function of proteins related to control of the DNA integrity mechanisms such as chromatin remodeling, DNA repair and damage response pathways from eight model organisms commonly used in the DNA-related study: Homo sapiens, Mus musculus, Drosophila melanogaster, Caenorhabditis elegans, Saccharomyces cerevisiae, Schizosaccharomyces pombe, Escherichia coli and Arabidopsis thaliana. DNAtraffic contains comprehensive information on diseases related to the assembled human proteins. Database is richly annotated in the systemic information on the nomenclature, chemistry and structure of the DNA damage and drugs targeting nucleic acids and/or proteins involved in the maintenance of genome stability. One of the DNAtraffic database aim is to create the first platform of the combinatorial complexity of DNA metabolism pathway analysis. Database includes illustrations of pathway, damage, protein and drug. Since DNAtraffic is designed to cover a broad spectrum of scientific disciplines it has to be extensively linked to numerous external data sources. Database represents the result of the manual annotation work aimed at making the DNAtraffic database much more useful for a wide range of systems biology applications. DNAtraffic database is freely available and can be queried by the name of DNA network process, DNA damage, protein, disease, and drug.

Abbreviations: DNAtraffic

Synonyms: DNAtraffic database

Resource Type: data or information resource, database

Defining Citation: [PMID:22110027](#)

Keywords: dna, cell cycle, genome, nomenclature, ontology, structure, function, protein, chromatin remodeling, dna repair, damage response pathway, pathway, damage, drug, annotation, disease, dna network process, dna damage, gene sequence, bio.tools

Funding: Norwegian Financial Mechanism PNRF-143-AI-1/07;
Polish Ministry of Science and Higher Education N N301 165835

Availability: Free

Resource Name: DNATraffic

Resource ID: SCR_008886

Alternate IDs: biotools:dnatraffic, nlx_151312

Alternate URLs: <https://bio.tools/dnatraffic>

Record Creation Time: 20220129T080249+0000

Record Last Update: 20260801T191010+0000

Ratings and Alerts

No rating or validation information has been found for DNATraffic.

No alerts have been found for DNATraffic.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.