

Resource Summary Report

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RIsearch

RRID:SCR_023503

Type: Tool

Proper Citation

RIsearch (RRID:SCR_023503)

Resource Information

URL: <https://rth.dk/resources/risearch/>

Proper Citation: RIsearch (RRID:SCR_023503)

Description: Software tool for prediction of RNA–RNA, RNA–DNA, and DNA–DNA interactions. Both RIsearch1 and RIsearch2 enable quick localisation of potential near complementary interactions between given query and target sequences. RIsearch1 performs computation with whole sequences. RIsearch2 focuses on perfect complementary seed regions and extends them on both ends. User defined seed and extension constraints makes RIsearch2 applicable to all kinds of interaction predictions (e.g., siRNA and Cas9–gRNA off-target predictions).

Synonyms: RIsearch2, RIsearch1

Resource Type: software application, simulation software, software resource

Defining Citation: [PMID:22923300](#), [PMID:28108657](#)

Keywords: interaction predictions, RNA–RNA interactions, RNA–DNA interactions, DNA–DNA interactions,

Funding: Danish Council for Independent Research ;
Danish Council for Strategic Research ;
Danish Center for Scientific Computing ;
Innovation Fund Denmark

Availability: Free, Available for download, Freely available

Resource Name: RIsearch

Resource ID: SCR_023503

Record Creation Time: 20230426T050216+0000

Record Last Update: 20260812T044435+0000

Ratings and Alerts

No rating or validation information has been found for RIsearch.

No alerts have been found for RIsearch.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 5 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Singh J, et al. (2025) Small interfering RNA: From designing to therapeutic in cancer. Journal, genetic engineering & biotechnology, 23(2), 100484.

Cao J, et al. (2023) Expression Profiles of Long Noncoding RNAs and Messenger RNAs in a Rat Model of Spinal Cord Injury. Computational and mathematical methods in medicine, 2023, 6033020.

Tang L, et al. (2023) lncRNA and circRNA expression profiles in the hippocampus of A β 25?35?induced AD mice treated with Tripterygium glycoside. Experimental and therapeutic medicine, 26(3), 426.

Corsi GI, et al. (2022) CRISPR/Cas9 gRNA activity depends on free energy changes and on the target PAM context. Nature communications, 13(1), 3006.

Thébault P, et al. (2015) Advantages of mixing bioinformatics and visualization approaches for analyzing sRNA-mediated regulatory bacterial networks. Briefings in bioinformatics, 16(5), 795.