

Package: rho.duckdb (via r-universe)

July 15, 2026

Type Package

Depends R (>= 4.4.0)

Title Rho DuckDB Backend

Version 0.0.1.9000

Description Adapts DuckDB connections to Rho's asynchronous SQL contracts and provides a conservative read-only query guard for declared bioinformatics resources.

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Encoding UTF-8

Roxygen list(markdown = TRUE)

Imports S7, rho.async (>= 0.0.1.9000), rho.bio (>= 0.0.1.9000), DBI, duckdb

Suggests tinytest, knitr

Remotes sounkou-bioinfo/Rho/packages/rho.async,
sounkou-bioinfo/Rho/packages/rho.bio

URL <https://github.com/sounkou-bioinfo/Rho>,
<https://sounkou-bioinfo.github.io/Rho/rho.duckdb/>

BugReports <https://github.com/sounkou-bioinfo/Rho/issues>

Config/roxygen2/version 8.0.0

Config/pak/sysreqs xz-utils

Repository <https://sounkou-bioinfo.r-universe.dev>

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RemoteUrl <https://github.com/sounkou-bioinfo/Rho>

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RemoteSubdir packages/rho.duckdb

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rho_duckdb_contracts	<i>DuckDB implementation of the Rho SQL contract</i>
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Description

Connections are explicit RhoDuckDbConn values. Queries and statements return tasks through the generic SQL API declared in rho.bio. rho_check_readonly_sql() is intentionally conservative and is not a substitute for the parser-backed guard required before accepting untrusted SQL. It returns a typed RhoSqlAccepted or RhoSqlRejected value. Database failures resolve to RhoDuckDbErrorValue rather than aborting the task.

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