Package 'nlmixr2'

August 29, 2025

Title Nonlinear Mixed Effects Models in Population PK/PD

Version 4.0.1

Description Fit and compare nonlinear mixed-effects models in differential equations with flexible dosing information commonly seen in pharmacokinetics and pharmacodynamics (Almquist, Leander, and Jirstrand 2015 <doi:10.1007/s10928-015-9409-1>). Differential equation solving is by compiled C code provided in the 'rxode2' package (Wang, Hallow, and James 2015 <doi:10.1002/psp4.12052>).

License GPL (>= 3)

Encoding UTF-8

RoxygenNote 7.3.2

Imports cli (>= 1.0.0), crayon (>= 1.3.4), dplyr (>= 0.7.4), purrr (>= 0.2.4), rstudioapi (>= 0.7), nlmixr2est (>= 2.2.2), nlmixr2extra (>= 2.0.10), rxode2 (>= 2.1.3), lotri (>= 0.4.3), nlmixr2plot (>= 2.0.8), tibble, magrittr

Suggests rmarkdown, knitr, devtools, ggplot2, testthat, n1qn1, withr

BugReports https://github.com/nlmixr2/nlmixr2/issues/

URL https://nlmixr2.org/, https://github.com/nlmixr2/nlmixr2/

NeedsCompilation no

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`nlmixr2CheckInstall` *Check your nlmixr2 installation for potential issues*

Description

Check your nlmixr2 installation for potential issues

Usage

```
nlmixr2CheckInstall()
```

Examples

```
nlmixr2CheckInstall()
```

`nlmixr2conflicts` *Conflicts between the nlmixr2 and other packages*

Description

This function lists all the conflicts between packages in the nlmixr2 and other packages that you have loaded.

Usage

```
nlmixr2conflicts()
```

Details

If dplyr is one of the select packages, then the following four conflicts are deliberately ignored: `intersect`, `union`, `setequal`, and `setdiff` from dplyr. These functions make the base equivalents generic, so shouldn't negatively affect any existing code.

Examples

```
nlmixr2conflicts()
```

`nlmixr2deps` *List all nlmixr2 dependencies*

Description

List all nlmixr2 dependencies

Usage

```
nlmixr2deps(recursive = FALSE)
```

Arguments

`recursive`	If `TRUE`, will also list all dependencies of nlmixr2 packages.

`nlmixr2packages` *List all packages in the nlmixr2*

Description

List all packages in the nlmixr2

Usage

```
nlmixr2packages(include_self = TRUE)
```

Arguments

`include_self`	Include nlmixr2 in the list?

Examples

```
nlmixr2packages()
```

`nlmixr2update` *Update nlmixr2 packages*

Description

This will check to see if all nlmixr2 packages (and optionally, their dependencies) are up-to-date, and will install after an interactive confirmation.

Usage

```
nlmixr2update(recursive = FALSE)
```

Arguments

`recursive`	If `TRUE`, will also check all dependencies of nlmixr2 packages.

Examples

```
## Not run:
nlmixr2update()

## End(Not run)
```

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