

Package ‘nlmixr2’

May 9, 2026

Title Nonlinear Mixed Effects Models in Population PK/PD

Version 5.0.0

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](https://doi.org/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](https://doi.org/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 (>= 5.0.0), nlmixr2extra (>= 5.0.0), rxode2 (>= 5.0.0), lotri (>= 0.4.3), nlmixr2plot (>= 5.0.0), 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

Author Matthew Fidler [aut, cre] (ORCID:

<<https://orcid.org/0000-0001-8538-6691>>),

Anne Keunecke [ctb],

Rik Schoemaker [ctb] (ORCID: <<https://orcid.org/0000-0002-7538-3005>>),

Justin Wilkins [ctb] (ORCID: <<https://orcid.org/0000-0002-7099-9396>>),

Wenping Wang [ctb],

Mirjam Trame [ctb],

John Harrold [ctb],

Bill Denney [ctb] (ORCID: <<https://orcid.org/0000-0002-5759-428X>>),

Theodoros Papathanasiou [ctb],

Richard Hooijmaijers [ctb],

Michael Wayne Kearney [ctb] (ORCID:

<<https://orcid.org/0000-0002-0730-4694>>)

Maintainer Matthew Fidler <matthew.fidler@gmail.com>

Repository CRAN

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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	<i>Update nlmixr2 packages</i>
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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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