

Package ‘nlmixr2’

July 22, 2025

Title Nonlinear Mixed Effects Models in Population PK/PD

Version 4.0.0

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 (>= 2.2.2), nlmixr2extra (>= 2.0.10), rxode2 (>= 2.1.3), lotri (>= 0.4.3), nlmixr2plot (>= 2.0.8), tibble, magrittr, crayon, cli

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
Date/Publication 2025-07-17 04:40:02 UTC

Contents

nlmixr2CheckInstall	2
nlmixr2conflicts	2
nlmixr2deps	3
nlmixr2packages	3
nlmixr2update	4
Index	5

nlmixr2CheckInstall	<i>Check your nlmixr2 installation for potential issues</i>
---------------------	---

Description

Check your nlmixr2 installation for potential issues

Usage

nlmixr2CheckInstall()

Examples

nlmixr2CheckInstall()

nlmixr2conflicts	<i>Conflicts between the nlmixr2 and other packages</i>
------------------	---

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	<i>List all nlmixr2 dependencies</i>
-------------	--------------------------------------

Description

List all nlmixr2 dependencies

Usage

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

Arguments

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

nlmixr2packages	<i>List all packages in the nlmixr2</i>
-----------------	---

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>
---------------	--------------------------------

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)
```

Index

`nlmixr2CheckInstall`, [2](#)
`nlmixr2conflicts`, [2](#)
`nlmixr2deps`, [3](#)
`nlmixr2packages`, [3](#)
`nlmixr2update`, [4](#)