

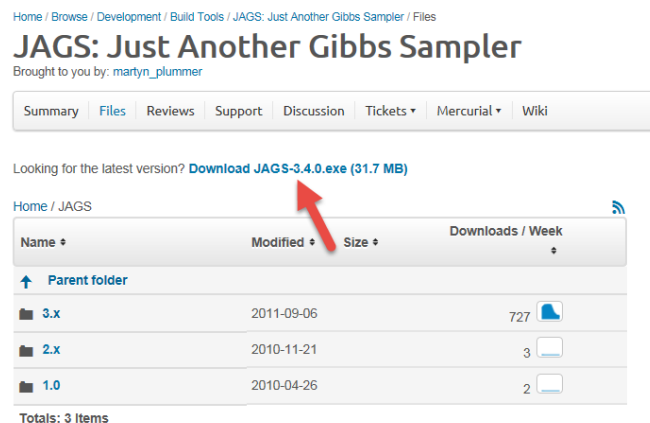
# How to install the R-package “crmPack” for model-based dose escalation in R

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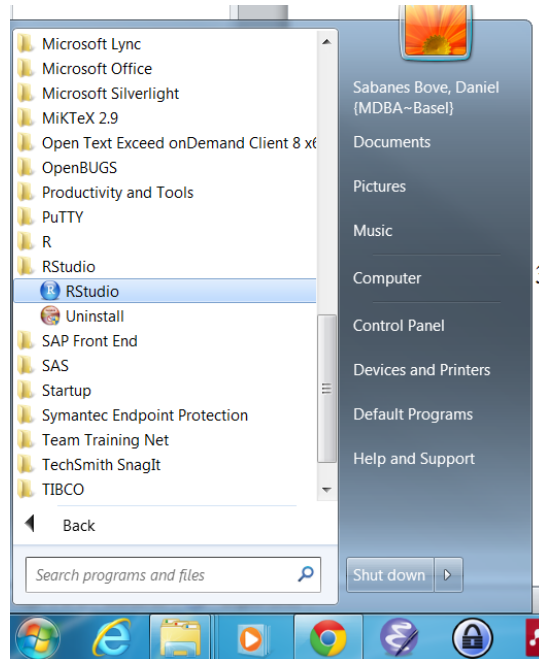
Following this installation guide, you will install the R-package “crmPack” on your local computer with your local R installation. Please note that it has nothing to do with the remote RStudio that you can access on <https://r.roche.com>. Your local R and the remote RStudio on the server are completely independent. We assume here that you have already installed R or RStudio on your computer.

1. First, you have to install JAGS (“Just Another Gibbs Sampler”) on your computer. Note that this requires you to have administrative rights on your computer.
  - a. Click on the following link to visit the JAGS webpage:  
<http://sourceforge.net/projects/mcmc-jags/files/JAGS/>
  - b. Download the JAGS installation program suitable for your computer by clicking on the top link in the JAGS webpage:



- c. Run the JAGS installation program by executing the downloaded file, and clicking through and confirming all installation setup steps.
2. Now we will install the latest version of the R-package “crmPack” to your computer.

- a. Open R or RStudio on your local computer, e.g. by finding it in your Programs list.

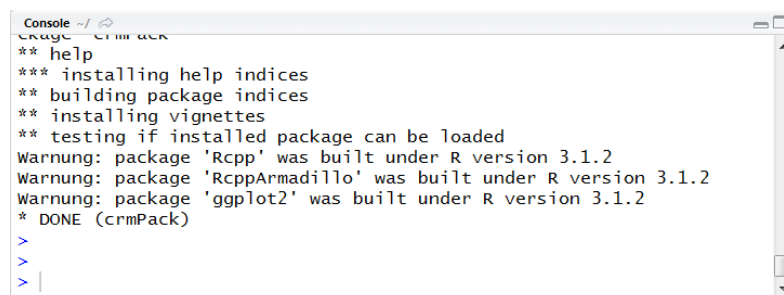


- b. Please copy the following lines into your R console and press Enter:

```
install.packages("httr")
library("httr")
url <-
  paste("https://stash.intranet.roche.com/stash/plugins/servlet/archive/projects/RSTAT",
        "/repos/crmPack?at=refs%2Fheads%2Fmaster",
        sep="")
tmp <- tempdir()
target <- file.path(tmp, "crmPack.zip")
x <- GET(url, config = list(ssl.verifypeer = FALSE))
bin <- content(x, "raw")
writeBin(bin, target)
dir <- file.path(tmp, "crmPack")
unzip(zipfile=target, exdir=dir)
install.packages(c("Rcpp", "RcppArmadillo", "rjags", "ggplot2", "gridExtra",
                  "GenSA", "BayesLogit", "mvtnorm"), dependencies=TRUE)
install.packages(dir, repos=NULL, type="source")
```

Please be patient as this may take a minute.

- c. The successful installation looks like this:



3. Before you can use the R-package “crmPack”, you have to load it into your R session, by typing the command

```
library("crmPack")
```

into your console.

Note that you have to run `library("crmPack")` *again* for each *new R session*!

On the other hand, you only have to do the *installation* process (step 2) *once* on your computer. When you have successfully completed step 2, then only in case you would like to update your “crmPack” installation with a new version, you would have to run completely through step 2 of this installation guide again.