



# **DSBS Course: Introduction to the R language - A case-based introduction November 27<sup>th</sup> 2018, 9-16:30**

**Venue: Novo Nordisk a/s  
"Fritidscentret"  
Bagsværd**

R may be the future – and FDA does not require any specific software for statistical analysis (<https://www.fda.gov/downloads/forindustry/datastandards/studydatastandards/ucm587506.pdf> and <https://www.r-project.org/certification.html>)

The course is meant as an introduction to R programming language with focus on statistical application with examples from the pharmaceutical industry. The participants will be asked to bring a PC with R and RStudio installed for the exercises (specifications will be provided).

The teachers for the day will be Milan Geybels, Steen Ladelund, Majken Hamann Sey, Steffen Falgreen Larsen, Johan Ejstrud (all NN) and Alexandra Kuznetsova (Leo Pharma)

## **Agenda:**

<b>9:00-11:45</b>	Basic R (Installing packages, loading, manipulating and visualizing data) incl break
<b>11:45-12:30</b>	Lunch
<b>12:30-16:00</b>	Examples of use of statistical methods: linear regression, mixed models, CMH (tentative: CIF plot for drop outs due to AE's, simulations) incl break

## **Registration:**

The course is FREE since Novo Nordisk a/s kindly provides the room and catering. Deadline for registration: November 15<sup>th</sup>. To register, please send a mail to: [OPC\\_GCO@leo-pharma.com](mailto:OPC_GCO@leo-pharma.com)

**Note:** The Introduction course will be followed-up by half-day events with more in depth approaches to specific topics.

Half-day events already planned for (the topics covered at the introduction course is considered known at the half-day events!):

- Data science with R: tidyverse and knitr
- Multiple comparison procedures and power calculations with R
- Survival analysis in R
- Multiple Imputations in R