

# Lunchtime Science

Invitation to institute-wide seminar:  
April 18<sup>th</sup>, 2018, 12:15 pm, Lecture hall 3

**Dr. Joachim Krois**

will give a presentation on

## **“Scientific Computing and Reproducible Research”**

In recent years, many voices have been raised to articulate that science is in crises. These advocates called out on difficulties in science governance, finance resources, study design the process of peer review, reproducibility and the (miss-) use of science for policy. This talk reflects on a methodological crisis in science, the reproducibility crisis. It aims to advocate the usage of software methods for reproducible research. Many researchers are not yet aware that software is just another kind of experimental apparatus. While most scientists are trained to validate their laboratory and field equipment carefully, many lack training to use software and build reliable and reproducible analyses. In the talk, selected software tools will be introduced, which allow to build integrated, consistent and reproducible analysis pipelines. Starting from the raw data, exploratory data analysis, statistical analysis, modeling, visualization and reporting will be demonstrated.



**Dr. Joachim Krois**

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Humboldt-Universität zu Berlin,  
and Berlin Institute of Health, Department of Operative and Preventive Dentistry

The presentation is meant for clinicians and researchers alike.  
Coffee and cookies will be served. Next lecture: May 16<sup>th</sup>, 2018