## Workshop 2019



#### **AGENDA**

Thursday, 05th December 2019

### Introduction to R language & applications

(Dr. Markus List, Big Data in BioMedicine Group, Chair of Experimental Bioinformatics, TUM)

08.30 - 9.00 Introduction / working with R: Rstudio, R notebooks

9.00 -10.00 R data handling basics - tidyverse, bioconductor

10.00 - 10.15 Coffee break

10.15 -12.00 Writing your own R package including automated testing of your code

12.00 - 13.00 Lunch break

13.00 - 14.45 Epigenomic data analysis with DeepBlueR

14.45 - 15.00 Coffee break

15.00 - 16.30 Turn your analysis into an interactive web application with R shiny

16.30 – 17.00 Wrap-up and discussion

#### SFB1321 seminar series

17.00 – 18.00 Dr. Nicholas McGranahan (invited by Prof. Dieter Saur)

'Game of Clones: Lung Cancer Evolution and Immune Escape'

from 18.00 social event: Evening at Tollwood Winter Festival

# Workshop 2019



## Friday, 06th December 2019

## SFB1321 Young Scientist Meeting - Tools & Methods in pancreatic cancer research

- 09.00 09.40 Autophagy in pancreatic cancer (Kivanc Grörgülü Algül Lab)
- 09.45 10.25 ATAC-seq and Chip-Seq methodology/data analysis (Andrea Terrasi Schotta Lab)
- 10.30 11.00 coffee break
- 11.00 11.40 Basics in Proteomics (Stella Koutsouli Robles Lab)
- 11.45 12.25 CRIPSR/CAS9 tool kit for cancer research (Sebastian Widholz Rad Lab)
- 12.30 13.30 lunch break
- 13.30 14.30 Single cell RNA sequencing analysis

  (Jonas Mir Flossdorf Lab, Stefanie Bärthel Saur Lab)
- 14.30 15.15 Effects of Kras dosage variation on pancreatic cancer (Roman Maresch Rad Lab)
- 15.20 16.00 Intravital Two-Photon Microscopy for pancreatic cancer analysis (Hellen Ishikawa-Ankerhold Massberg Lab)
- 16.00 wrap-up and coffee break