

DRESDEN
concept



BIOMEDICINE & BIOENGINEERING

LECTURE

Building a Bridge for Science

Dresden–Prague

3 MAY

**13:00–
15:00**

**CZECH ACADEMY OF
SCIENCES, NARODNI 3,
ROOM 205**

UNDER THE AUSPICES OF

STAATSMINISTERIUM
FÜR WISSENSCHAFT
UND KUNST



Freistaat
SACHSEN



Dresden.
Dresdner

PRAHA
PRAGUE
PRAGA
PRAG

Building a Bridge for Science

Dresden–Prague

Deep learning for better microscopy, mobile genetic elements shaping the evolution of genomes: These two cutting-edge scientific topics are being pushed to the limits by young scientists from Dresden and Prague. The goal of the Advanced Research Incubator in Biosciences (ARIB), a joint project of the Max Planck Institute of Molecular Cell Biology and Genetics (MPI-CBG) and the Institute of Molecular Genetics (IMG), is to build a bridge for science between Dresden and Prague. Two short presentations will illustrate how the two cities meet in the area of biomedical research: **Deep Learning – From Mastering the Game of Go to Revolutionising Microscopy** by Florian Jug and **Jumping Genes and Evolutionary Jumps – A Lesson from Mouse Egg Cells** by Petr Svoboda. There will be time after the presentation to have a discussion with the speakers. Join us to find out what the future holds.



Dr Florian Jug has been the group leader at the Center for Systems Biology Dresden (CSBD) since 2017. His research aims at pushing the boundary of what computer vision and machine learning can do for the automated and semi-automated quantification of biological image data.



Prof Petr Svoboda is a senior group leader at the Institute of Molecular Genetics AS CR in Prague. He is currently studying post-transcriptional regulations during oocyte-to-zygote transition in mammals with a special focus on RNA silencing mechanisms.

This event is a project linked with the **DRESDEN-concept Science Exhibition**, which is going to be on display at **Ovocný trh** from **10 April until 4 May 2018**. The exhibition is a project of **26 Dresden-based research institutions**. For more information see: www.dresden-concept.de/en. If you are interested in attending this event, please register at www.dresden-concept.eventbrite.de.

This project is part of TU Dresden's Institutional Strategy, funded by the Excellence Initiative of the German Federal and State Governments.

IN CO-OPERATION WITH

