



FLAGSHIP INITIATIVE
ENGINEERING
MOLECULAR SYSTEMS



UNIVERSITÄT
HEIDELBERG
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SEIT 1386

COLLOQUIUM ENGINEERING MOLECULAR SYSTEMS

JONATHAN SCHMID-BURGK will talk about **FUNCTIONAL GENOMICS USING POLYCLONAL GENE TAGGING** in the “Engineering Molecular Systems” colloquium at **April 25th 2022** at **5 p.m.** (CET) hosted by the Flagship Initiative Engineering Molecular Systems of Heidelberg University. The colloquium will be an **on-site** meeting taking place at the BioQuant (SR041), Im Neuenheimer Feld 267, 69120 Heidelberg.



**Jonathan
Schmid-Burgk**

University of Bonn

Apr 25th 2022

5 pm CET

on-site

BioQuant SR041

Heidelberg



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ABSTRACT:

A refined understanding of cellular biology requires scalable and quantitative methods for directly monitoring dynamic changes in protein abundance and localization. By combining polyclonal gene tagging, library sequencing, flow cytometry, and in-situ sequencing methods, proteins can be studied in a parallelized fashion in human cells. In this talk, ongoing technology development work will be presented and future applications will be discussed.

BRIEF CV:

Jonathan received his PhD from the University of Bonn in 2016, working with Veit Hornung on innate immune signaling and CRISPR screening technologies. As a Postdoctoral Fellow in Aviv Regev's and Feng Zhang's labs at the Broad Institute, he studied natural self-diversifying systems, and worked on CRISPaint to enable scalable gene tagging. In 2020, Jonathan became an Assistant Professor for Functional Immunogenomics at the University of Bonn, Germany, where his lab uses optical screening technologies for characterizing molecular events during innate immune responses.