

# Regensburg Lectures in Medical Bioinformatics

“Drug discovery and omics data analysis: recent progress and open challenges”

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## Introduction

Drug discovery is a challenging endeavor: the identification of targets for novel drug interventions, the translatability of animal model studies to clinical effects in human patients, and the identification of the appropriate patient population for a newly developed drug all come with immense unsolved problems, but also opportunities for the discipline of computational biology.

In this talk, I will outline some of these problems from a computational biology perspective and present recent approaches from our group for biological network-motivated regularization methods for the analysis of omics data. I will also review the recent “Artificial Intelligence” hype from a drug discovery research perspective and end with some open challenges in the field.

Thursday, 22.03.2018, 5 p.m.

Seminarraum DE.\_1.113 (Westliche Naturwissenschaften, 1. Stock)

Host: Prof. Dr. Rainer Spang