

Institute of Aerospace Medicine
Institute Seminar, November 19, 2019, *Abstract*

Prof. Dr. Konrad Förstner

ZB MED – Informationszentrum Lebenswissenschaften
Cologne, Germany

Translating high-throughput sequencing data into microbiological insights

High-throughput sequencing (HTS) can be a powerful tool not only to study genomes and transcriptomes but also to detect different cellular entities and their interaction in a systematic fashion. For this purpose new experimental protocols and bioinformatical analyses must be developed. This talks will present several HTS based approaches including their required bioinformatical data integration and the biological insights gained. Among others, we will cover dual RNA which can be used to study host-pathogen interactions, Grad-Seq which helps to detect new RNA-RNA and RNA-protein complexes and TIER-Seq which can be applied to find RNase cleavage sites globally.