



The ZPM would like to invite you to a seminar talk in the scope of the lecture round of the platforms 1 and 2 about the application of bioinformatic approaches to support decision processes in so called molecular tumor boards.

Titel

"Bioinformatic concepts for the molecular tumor board "

Abstract

Modern sequencing technology allows to determine the genome sequence of an organism with unprecedented accuracy and speed. This can be used to adapt therapeutic concepts to a specific genetic constellation. A particularly promising application is in cancer medicine. Here, the genomic sequence from cancer cells is compared to those of non-malignant cells from the same individual to detect somatic alterations that arose during cancerogenesis. From such alterations, hypotheses on effective therapies can be derived based on knowledge on oncogenic signalling pathways. Bioinformatic algorithms have a key role in this process, and include read mapping to a reference genome, variant calling, and detection of structural aberrations. We have established workflows for sequencing-based detection and interpretation of genetic variants at the National Center for Tumor Diseases in Heidelberg. These methods are used within the NCT-MASTER and INFORM trials to derive therapy recommendations under a precision medicine paradigm for patients with advanced cancer diseases.

Date

Wednesday 18.11.2015

05:00 pm

Place

Klinken Berg, Gesundheitszentrum
(Building 480), Room 1 (level 4)
Hoppe-Seyley-Straße 6, 72076 Tübingen

Further Information: www.zpm-tuebingen.de

