



Tissue Phenomics: Profiling Cancer Patients for Treatment Decisions (Hardback)

By Gerd Binnig, Ralf Huss, Günter Schmidt

Pan Stanford Publishing Pte Ltd, Singapore, 2018. Hardback. Condition: New. Language: English. Brand New Book. In the age of digitization our society is transformed into a new state. In particular, machine intelligence dramatically elevates our capability to create and digest information. Naturally, healthcare is also impacted by this trend and will even be more transformed into a informatic driven discipline in the future. In the most important area of histo-pathology, the interpretation of tissue slices from cancer patients, informatics will have an early and huge impact on treatment decisions and probably will act as the leading discipline for this transformation in medicine. Tissue Phenomics provides a comprehensive methodology aiming at the discovery of the most accurate tissue-based decision support algorithm by close integration of assay development, image analysis and bioinformatics, and optimization feedback loops. In this book the methodology of Tissue Phenomics and its benefits and wealth s are described. The different components of Tissue Phenomics are explained in the different chapters. In the chapters 2 to 4 of this book different authors describe various approaches on how to convert the wealth of tissue slide pixel data into mineable information using knowledge-based and data-driven image analysis methods. Subsequently, the...



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