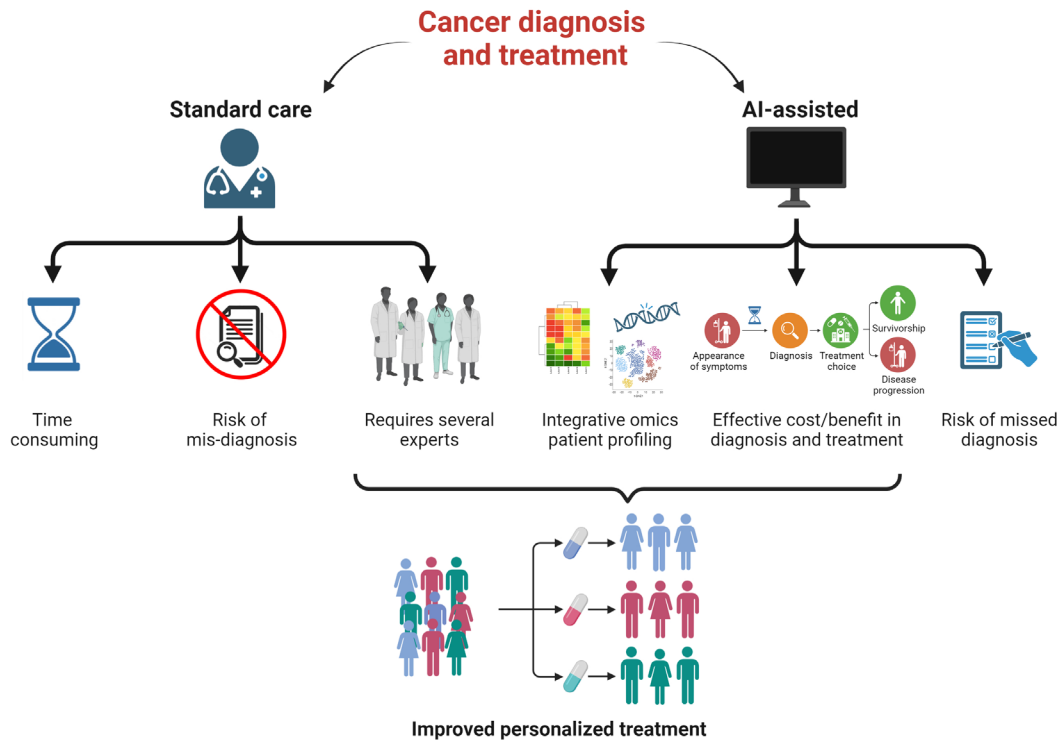
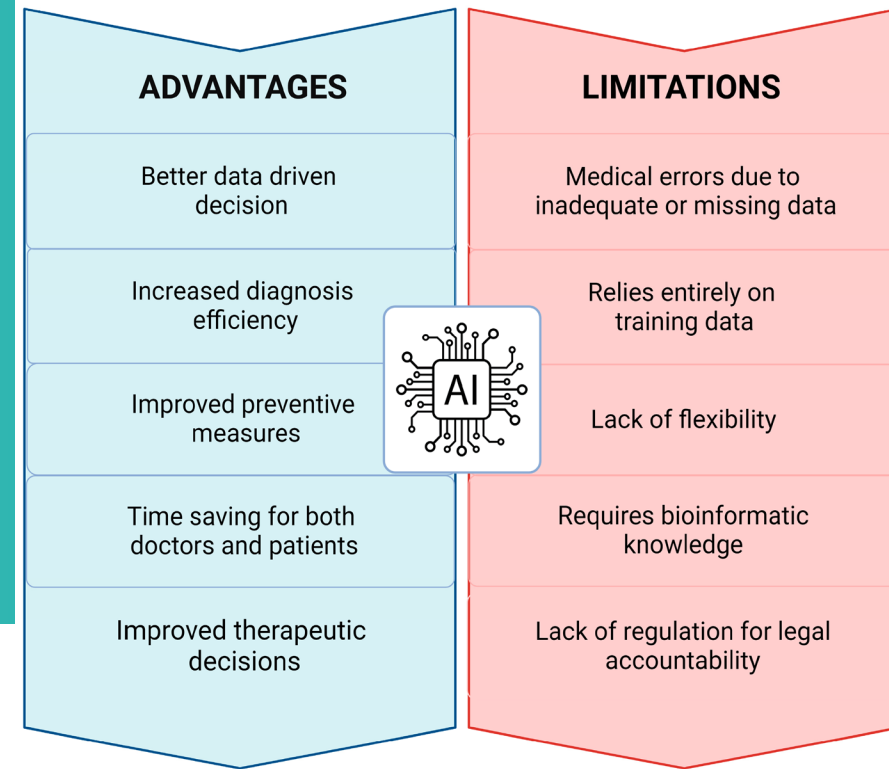




Systems Biology in Cancer Diagnosis Integrating Omics Technologies and Artificial Intelligence to Support Physician Decision Making

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Systems biology algorithms exploit Artificial Intelligence (AI) combined with omics technologies to perform a rapid and accurate analysis and integration of patient's big data and support the physician in making diagnosis and tailoring the most appropriate therapeutic intervention. **AI-based precision medicine will be critical for cancer treatment in the future.** However, AI is not free from possible diagnostic and prognostic errors in the interpretation of images or biochemical-clinical data. **Experts are fundamental in data curation and data annotation** to provide reliable datasets to be used for training AI classifier and predictors models. **AI is meant to complement the medical doctor facilitating his work, but it will not replace the medical doctor.**