Predictive Diagnostics and Personalized Treatment

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Message from the Guest Editor

The paradigm change from reactive medicine to a cost-effective predictive approach and personalization of medical services is non-incremental in biomedical sciences and healthcare. A predictive and personalized approach ranges from identifying individuals in a suboptimal health condition followed by cost-effective targeted prevention, to palliative care evolving from "just end of life" care to treatment algorithms tailored to the person with optimized individual outcomes. Multiprofessional expertise is essential. Methodology and tools include phenotyping and genotyping, condition-specific biomarker panels, patient stratification, individualized profiling, liquid biopsy, application of articifial intelligence, and disease modeling. Medical ethics and the healthcare economy have to be considered for any innovation proposed.

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