

Electrical signals as biomarkers in atrial fibrillation - from molecular determinants to bedside application

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Atrial fibrillation is an abnormal heart rhythm in which the upper chambers of the heart beat rapidly and irregularly. Synchrony with the ventricles, and consequently pumping efficiency, is lost and the risk for stroke is increased. Atrial fibrillation is an important health issue for Western societies and involves high costs. Although knowledge on the mechanistic basis and treatment strategies have been expanded substantially over the past two decades, knowledge relative to its high prevalence in the general population and the still unsatisfactory management has been slow to progress. The overall objective of this 3-year interdisciplinary project is to identify novel biomarkers from surface electrocardiogram recordings, to relate them with molecular and structural pathologies, and to apply them for monitoring pharmacologic responses to therapeutic interventions.

Projektbeteiligte

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