

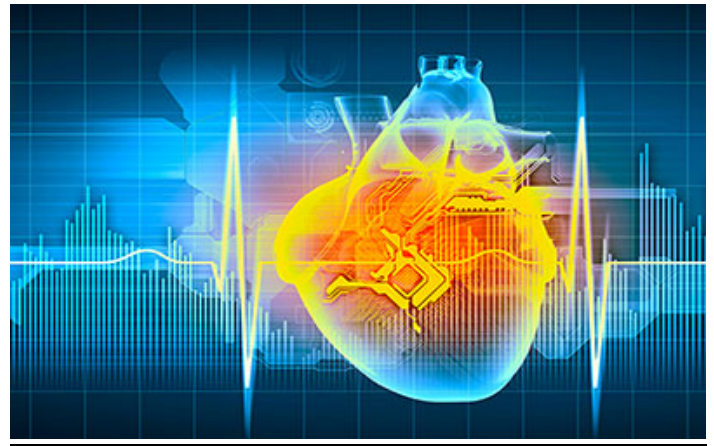
Dipartimento di Biotecnologie e Bioscienze – UNIMIB

Thursday, April 27, 2023, 4:30 p.m., BIOS building, room U3-08 / Webex

Congenital and acquired cardiac arrhythmias: advanced disease models and novel therapeutic approaches

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Abstract: Cardiac arrhythmias are potentially life-threatening conditions characterized by an abnormal electrical activity of the heart. Treatments are sometimes limited by important side effects or low efficacy. Our group investigates genetic and acquired factors underlying cardiac arrhythmias by using patient-specific models based on human induced pluripotent stem cells. Single- and multicellular electrophysiology, intracellular calcium analyses and contractility are used for an early identification of patients at risk, for a prompt clinical translation of the results, for the discovery of therapies and of their potential side effects on the heart. Unpublished data on novel strategies for the treatment of congenital cardiac arrhythmias will also be presented.

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