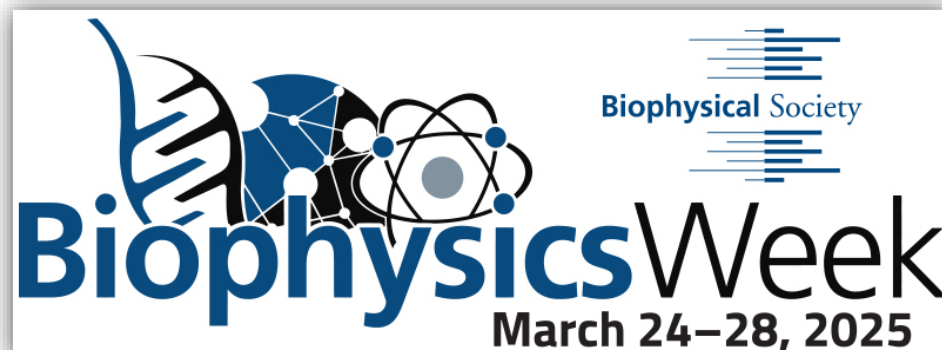


Biophysics Week 2025 Affiliate Event

William Louch

University of Oslo, Norway



Nanoscale Control of the Heartbeat

Contraction of the heart is reliant on the shortening of individual cardiomyocytes, elicited by Ca^{2+} release at sub-cellular structures called dyads. However, the precise arrangement and function of dyads remains unclear, both in health and disease. Our work has examined this critical question using emerging microscopy techniques, including live-cell super-resolution (PALM) imaging. Our results show that nanoscale changes in dyadic structure promote fine-tuning of Ca^{2+} release in health, but deranged Ca^{2+} homeostasis during heart failure. These data suggest that newfound regulators of dyadic structure and function may serve as novel therapeutic targets in this disease.



Thursday
March 27, 2025



16.30 pm
to 17.30 pm



U3-BIOS building
room U3-04



Host: Zaza , Lodola
BtBs - UNIMIB



the seminar will also be streamed on **Webex**

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