

# Cardiology Science Lunch Berlin

a weekly exchange of insights and ideas in cardiovascular medicine

## Structure-Function Relationships in Cardiac Myocytes: Implications for Development and Disease

**Prof. Dr. William Louch**

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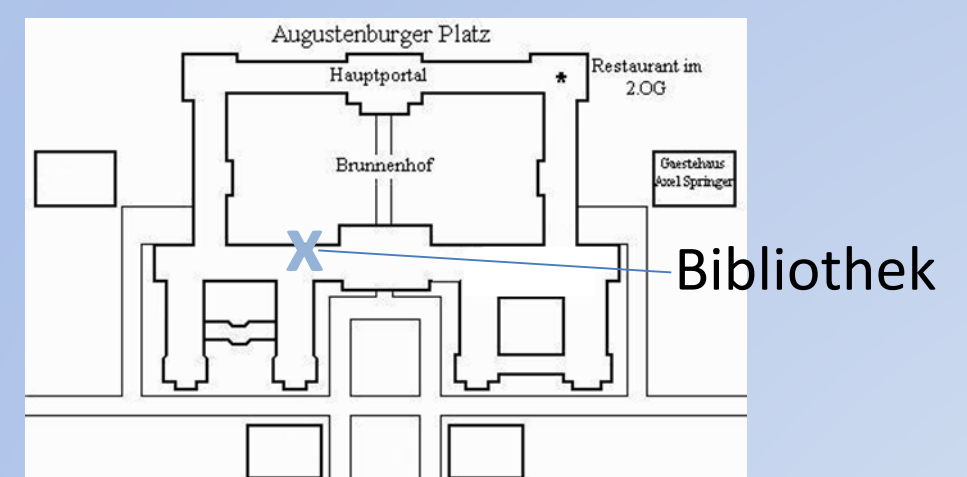
Contraction of cardiomyocytes and thus the whole heart is dependent on sub-cellular structures called dyads. Well-organized dyads enable efficient triggering of  $Ca^{2+}$  release during the action potential, and powerful contraction. Dyads are formed gradually during development, but are broken down during diseases such as heart failure, with a reversion to an immature phenotype. These alterations include changes in t-tubule morphology and localization of ryanodine receptors. Understanding the regulation of these processes is vital for establishing novel treatment strategies for disease.

**Wednesday, 13.01.2016**

**12:00 – 13:00h**

**Bibliothek at DHZB**

Augustenburger Platz 1, Berlin



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