

Molecular and Biophysical Imaging Seminar

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“X-nucleus magnetic resonance imaging”

In conventional clinical magnetic resonance imaging (MRI), the measured signal arises from the protons of tissue water molecules. In principle other nuclei (X-nuclei) may be used for MRI. Unfortunately, the low sensitivity and the low *in vivo* concentration of X-nuclei yield significantly reduced image quality. However, the last decade's developments in sodium-23 MRI demonstrated that X-nucleus MRI can provide physiological information with acceptable image quality. The talk will give an overview about the developments in sodium-23 MRI. Moreover, recent developments in *in vivo* MRI of fluorine-19, potassium-39 and chlorine-35 will be presented.

Dienstag, den 24. November, 16:00 Uhr

Leibniz-Institut für
Molekulare Pharmakologie (FMP)
Konferenzraum Erdgeschoss
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Einladende: M. Bräutigam, B. Ittermann, T. Niendorf, L. Schröder, M. Taupitz, H. Mylord