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## **Drug Delivery Systems examined by NMR**

Tuesday 14 January 2020 14:45 (15 minutes)

Various polymeric drug delivery systems suitable for physical entrapment of porphyrinic photosensitizers are a focus of our research. In this presentation, it will be shown how NMR can provide useful information on many different aspects such as drug loading and stability of the porphyrin-carrier systems. Classical NMR spectroscopic methods such as NOESY and DOSY are used to analyze drug localization at the polymer interface as well as exchange processes and release from the carrier in physiologic solution. The data contribute to the assessment of simple, biocompatible and cost-effective drug delivery systems that can be used for porphyrinic photosensitizers with a prospect of enhanced in vivo efficacy.

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