



Bundesanstalt für
Materialforschung
und -prüfung

ADLERSHOFER KOLLOQUIUM **Analytik**

Topic: 4th Generation Biosensors: Molecular Integration in Bioanalysis

Presenter: **Prof. Dr. Frank F. Bier**
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Chair: Dr. Rudolf Schneider (BAM)

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2:00 PM

Location: Bundesanstalt für Materialforschung und -prüfung (BAM)
Branch Adlershof, Richard-Willstätter-Str. 11, 12489 Berlin
Building 8.05 / Lecture Hall

Summary: Biosensors combine molecular interaction with electronic signaling by transducing a biochemical reaction into a physical quantity. One major direction of technological development follows the microelectronic integration route, which helps to integrate biosensors into digital environments. Additionally, research proceeds to use molecular techniques to modify molecules for analytical purposes, design binding sites and generate a new generation of biosensors in the form of sensor-actor-molecules.