ADLERSHOFER KOLLOQUIUM

**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 sizes and generate a new generation of biosensors in the form of sensor-actor-molecules.