



## Cell-Free Protein Synthesis

3<sup>rd</sup> Public Status Seminar



### How to find us:

#### BY TRAIN:

*Berlin Hauptbahnhof:* S-Bahn 7 (platform 16) or train RE 1 (platform 14, destination Magdeburg/Brandenburg, every 30 minutes) to Potsdam Hbf;  
*Potsdam Hauptbahnhof:* Regional train RB 21 to *Golm* (platform 3, destination Wustermark/Flughafen Berlin-Schönefeld, every 30 minutes) or Bus 605 or 606 from Potsdam to *Wissenschaftspark Golm*  
*Golm Station:* a ten minutes walk to the institute

#### BY CAR:

Autobahn A10 (Berliner Ring): exit Leest (north of Autobahndreieck Werder) towards Potsdam; at the end of Wublitzstr. turn right towards Golm, pass the roundabout (circle); the Fraunhofer IBMT is the last (orange) building on the left hand side.

**From the bus stations, please use the road between the IAP and GO:IN, turn right on the gravel path. The main entrance of the IBMT lies on its northside (wooden deck).**

*January, 31<sup>st</sup> 2013*

9.00 – 19.00

Fraunhofer IBMT  
Potsdam

### **Registration:**

**The registration is free. Due to limited space please register informally with a short e-mail to: [stephanie.schwarz@ibmt.fraunhofer.de](mailto:stephanie.schwarz@ibmt.fraunhofer.de)**

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# 3<sup>rd</sup> Public Status Seminar: Cell-Free Protein Synthesis

## Opening

- 09:00 Prof. Frank F. Bier  
*Fraunhofer Institute for Biomedical Engineering (IBMT)*
- 09:15 Prof. Christian Spahn  
*Institute of Medical Physics and Biophysics, Charité Berlin*  
„Structural studies of functional ribosomal complexes by three-dimensional cryo-electron microscopy“

-- Coffee break --

## Lectures

- 10:15 Dr. Stefan Kubick  
*Fraunhofer Institute for Biomedical Engineering (IBMT)*
- M.Sc. Marlitt Stech  
„Antibody production in eukaryotic cell-free translation systems“
- M.Sc. Dipl.Ing. Andreas Brödel  
„Cell-free protein production based on extracts from CHO cells“
- M.Sc. Dipl.Ing. Rita Sachse  
„Cell-free expression of membrane proteins and formation of translocationally active GUVs from insect microsomes“
- Dr. Srujan Dondapati  
„Cell-free systems for the expression of functional membrane proteins“
- Dipl.-Biochem. Robert Quast  
„A eukaryotic cell-free system expanded to incorporate a uniquely reactive amino acid into *de novo* synthesized proteins“
- 12:00 – 13:00 Lunch --
- 13:00 Prof. An-Ping Zeng  
*Hamburg University of Technology (TUHH)*  
„Protein design and cell-free synthesis“
- 13:30 Dr. Frank Bernhard  
*Center of Biomolecular Magnetic Resonance  
Goethe-University of Frankfurt*  
„Cell-free expression of membrane proteins in artificial environments“

- 14:00 Dr. Susanne Fenz  
*Department of Cell and Developmental Biology  
Würzburg University*  
„Tailored Cell Models“

-- Coffee break --

- 15:00 Prof. Jacek Jemielity  
*Division of Biophysics, Faculty of Physics  
University of Warsaw*  
„Decorating mRNA 5' end and its analogs“
- 15:30 Dipl.-Biochem. Paul Majkut  
*Freie Universität Berlin and RiNA GmbH, Berlin*  
„Cell-free Protein Synthesis for Screening of Phosphoprotein/SH2 Interactions and kD Value Determination“
- 16:00 Dr. Stefan M. Schiller  
*Freiburg Institute for advanced Studies (FRIAS)*  
„Bioconjugation techniques in synthetic biology“
- Coffee break --
- 17:00 Dr. Robert Ventzki  
*Department of Neuro- and Sensory Physiology  
University Medical Center (UMG) Göttingen*  
„3D-Gel Electrophoresis - A New Approach to Protein Analysis“
- 17:30 Dipl.Ing. Carolin Richter  
*Karlsruhe Institute of Technology (KIT)*  
„Cell-free expression of recombinant antigens of *Borrelia burgdorferi* and microarray-based multiplex detection using different patient sera“
- 18:00 Dr. Günter Roth  
*Department of Microsystems Engineering (IMTEK)  
University of Freiburg*  
„Microfluidics for cell-free synthesis of protein microarrays“
- 18.30 Poster Session and Come Together