

Special Lecture

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Functional Transitions in Conformational Ensembles of Proteins

Proteins are the workhorse of the cell and mediate most of the signalling cellular activity. In doing so, they can adopt multiple conformational states to achieve the most disparate biological functions. Characterising conformational transitions is therefore essential to the understanding of many of these biological functions. Most experimental methods address functional states that are long-lived enough to be characterised, but for a complete understanding of the functional activity of proteins, addressing the transition pathways between these stable states is crucial. These transitions underpin short-lived conformational states usually difficult to detect experimentally. In alternative, computational approaches can nowadays produce credible conformational ensembles and transition pathways that may contribute to functional states and that can be tested experimentally.

I will present examples of research from my laboratory in which we have addressed challenging cases of the characterization of these functional transitions: allosteric signalling and self-assembly in protein oligomerization.

Friday, November 16, 2018 at 10:00 AM

TU Berlin

Technologie- und Innovationspark Berlin (TIB)

Room SE 401

Gustav-Meyer-Allee 25

13355 Berlin

Prof. Dr. Hildebrandt (TUB)

Organizer

Location

Institute for Biotechnology

Department of Applied and Molecular Microbiology

TIB4/4-1

Gustav-Meyer-Allee 25
13355 Berlin

Building 17a, staircase 5, 4th floor



We are located on the Technologie- und Innovationspark Berlin (TIB).

You can find us via the entrance Gustav-Meyer-Allee/ Hussitenstrasse

Building 17a, staircase 5, 4th floor

Travel information

Berlin-Tegel Airport:

Bus TXL (direction Alexanderplatz) get off at Beusselstrasse (approx. 10 minutes), change to S41 (clockwise) get off at Gesundbrunnen, change to S1/S2/S25 (direction Wannsee, Blankenfelde, Lichtenrade, Teltow Stadt) and get off at Humboldthain. You will reach the TIB in 5 minutes walking (total approx. 45 minutes)

Taxi Berlin Tegel-Airport: approx. 20 minutes (11 km)

Berlin-Schönefeld Airport:

S-Bahn S9 (direction Pankow) get off at Bornholmer Straße and change to S1/S2/S25 (direction Wannsee, Blankenfelde, Lichtenrade, Teltow Stadt) get off at Humboldthain. You will reach the TIB in 5 minutes walking. (total approx. 70 minutes)

Taxi Berlin-Schönefeld approx.: 50 minutes (37 km)

Berlin Hauptbahnhof (central station): S-Bahn S5/S7/S75 (direction Strausberg, Ahrensfelde, Wartenberg) get off at Friedrichstrasse, change to S1/S2/S25 (direction Oranienburg, Frohnau, Bernau, Henningsdorf) get off at Humboldthain. You can reach the TIB in 5 minutes walking. (total approx. 35 minutes)

Taxi Berlin Hauptbahnhof (central station): approx. 15 minutes (4 km)

