

Protein folding in the cell: Structural mechanisms, cellular pathways and biomedical applications

Inaugural Lecture by Rudolf Mößbauer Tenure Track
Professor Matthias Feige

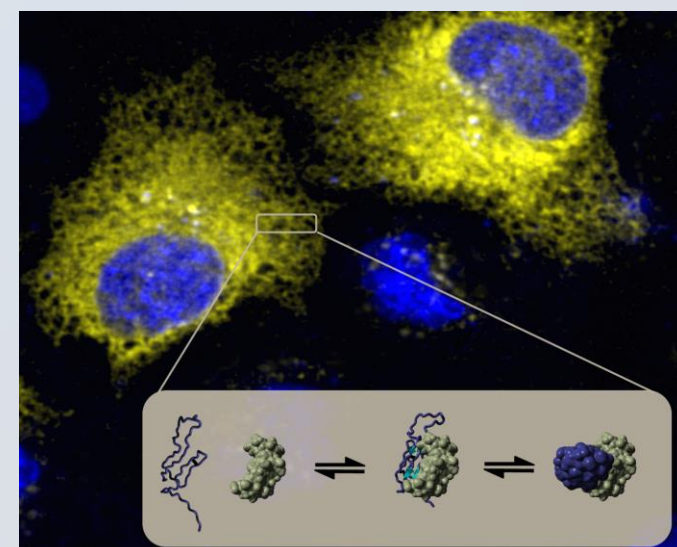
Tuesday, Dec. 15, 2015 | 17:00 c.t. | Dep. of Chemistry, Room 26411

Abstract:

Proteins are the structurally most complex molecules found in nature, which underlies their vast array of functions from enzyme catalysis to immune defense. In the cell, however, proteins are synthesized as a chain of amino acids that first has to adopt its defined three dimensional structure to become functional. Failures in this process give rise to numerous human diseases.

We use an interdisciplinary approach from protein biochemistry to mammalian cell biology to reveal the machinery and dissect the mechanisms of protein folding in the cell. Our research focusses on proteins of the secretory pathway, which allow cells to interact with their environment and in many cases are of immediate medical and biotechnological relevance. During this lecture, insights into our work in the Laboratory for Cellular Protein Biochemistry at the TUM IAS and Department of Chemistry will be given.

There will be a reception (drinks and snacks) after the lecture.



Speaker:

Prof. Dr. Matthias Feige
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TUM Institute for Advanced Study and
Department of Chemistry, www.cell.ch.tum.de)