



中国科学院生物物理研究所

贝时璋讲座

How the Proteasome Selects Proteins for Degradation

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主持人：Sarah Perrett（柯莎）



报告人简介

Andreas Matouschek is Professor and Associate Chair of the Department of Molecular Biosciences, University of Texas at Austin, USA. His research is focused on the Ubiquitin-Proteasome System, which controls the concentrations of thousands of proteins in eukaryotic cells. Using a combination of biochemical, biophysical and cell biology techniques, Prof. Matouschek has made fundamental contributions to understanding of the mechanisms by which the proteasome selects and degrades its protein substrates. He discovered that the proteasome selects substrates in two steps: when it recognizes the ubiquitin tag and when it initiates degradation at a disordered region in a target. The initiation step contributes substantially to substrate selection, while rules that govern the selection represent a second component to the degradation code.