

Professor Jan Riemer is working on mechanisms of cellular redox processes and protein homeostasis.

Since his early days at university he has been fascinated by the multifaceted aspects of redox biology.

His current research comprises investigating how protein import into cellular compartments and protein folding is controlled by redox-dependent processes. Another key focus of his research is unravelling the role of oxygen-derived reactive oxygen species (ROS) in cellular signalling. He especially focuses on the question which role hydrogen peroxide (H_2O_2) plays as a signalling molecule. High concentrations of H_2O_2 are toxic and have been found in several diseases.

Jan Riemer studied biochemistry in Tübingen before he went to Switzerland and Denmark to complete his doctoral studies. In 2015 he has been appointed Professor of biochemistry at the University of Cologne. He is speaker of the DFG training group "Dynamic relocalization of cellular proteins" (GRK/RTG2550) and member of the steering committee of the collaborative research center "Mitochondrial regulation of cellular function" (CRC 1218).

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