

Prof. Dr. Martina Huber



Martina Huber started her scientific career researching model systems for photosynthesis with Prof. Klaus Möbius at the Free University Berlin, Germany, using EPR-techniques to determine the relation of electronic structure and electron transfer properties. Next, she worked as a postdoc with Prof. George Feher at the University of California San Diego on primary processes of bacterial photosynthesis. In 1998, she joined the lab of Prof. Jan Schmidt and Prof. Edgar Groenen at the Leiden Institute of Physics, which is famous for very high field, high sensitivity EPR spectrometers. Her group in Leiden develops EPR methodology, such as pulse sequences, and applies them to metal-ion centres in proteins, and intrinsically disordered proteins (IDPs). The aggregation of amyloid IDPs is studied, as their aggregation is related to neurodegenerative disease. The role of metal ions, specifically iron, in the brain in neurodegenerative disease triggered a more recent research line to identify different iron forms by EPR.