Petra Ritter, Charité Berlin, Germany – *Reverse engineering multi-scale processes underlying altered learning across life span*

Dr. Petra Ritter is renowned for her work on multi-scale computations underlying cognition in the human brain revealed by combining multimodal neuroimaging and computational modeling. She was awarded an ERC consolidator grant to pursue breakthrough research on the integration of knowledge about the brain in a unifying computational framework and personalized brain simulations. Her capacity as a leader in the field is evident through her direction of multi-million Euro projects like Bernstein Focus State Dependencies of Learning (7 German research groups, 5 institutions), Virtome.eu (10 EU partners striving for integration of brain science and society), and by her activities as co-founder of The Virtual Brain. Dr. Ritter's scientific achievements have been published in several high-profile publications