

Joachim L. Schultze is Director of Systems Medicine at the German Center for Neurodegenerative Diseases (DZNE) and Founding Director of the PRECISE Platform for Single Cell Genomics and Epigenomics at the German Center for Neurodegenerative Diseases and the University of Bonn. He went to Medical School at the University of Tübingen, spent almost 10 years at Dana-Farber Cancer Institute, Harvard Medical



School, in Boston before he returned to Germany with a Sofia Kovalevskaya Award of the Humboldt Foundation. He is the coordinator of the German DFG-funded NGS competence centers in Germany, and one of the speakers of the West German Genome Center. He contributes his expertise to several EU consortia, amongst them SYSCID. He is an expert in macrophage biology and works at the interphase between immunology, genomics and the computational sciences. With his team he was the first to apply memory driven computing and Swarm Learning to medical research. With his own research group and the PRECISE platform, his goal is to bring single cell technologies and machine learning approaches to the clinical arena. He is leading several programs on applying single cell technologies, memory driven computing and Swarm Learning to patients with Alzheimer's disease, chronic obstructive pulmonary disease, lung cancer or HIV. He has established research collaborations with HPE, AstraZeneca, Boehringer Ingelheim, Becton Dickinson and other companies.