

ICB recommended seminar

Host: Digital Chemistry Laboratory/Prof. Dr. Kjell Jorner

DIGITAL CHEMISTRY AT MERCK: THE POWER OF DATA AND AI TO TACKLE INDUSTRY CHALLENGES

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Tuesday, 08/10/2024, 5 pm
ETH Hönggerberg, HCI D 2

Abstract: Digital chemistry is impacting Merck at all scales within Healthcare, Lifescience, and Electronics. In this talk, we will explore how advanced computational methods are enhancing molecular design, predicting materials behaviors, and optimizing synthesis pathways. We'll also discuss our collaborative efforts with academia and across Merck's diverse business units to drive innovation and solve complex industry challenges. Through selected case studies, we'll showcase the impact of digital chemistry in scaling biotechnological solutions and outline our vision for the future of data-driven research and development.

Bio: Dr. Jan Gerit Brandenburg is a strategic leader with over a decade of experience in developing cutting-edge solutions in digital chemistry, machine learning, and computer simulations for molecules and materials. With expertise in digital chemistry, AI, and machine learning, he has significantly advanced digital innovations, leading a diverse team and driving impactful research partnerships. Gerit holds a PhD in Theoretical Chemistry and has a track record of high-level academic and industrial contributions with 55+ conference contributions and peer-review publications.