NATO OTAN

NATO BIOTECHNOLOGY CONFERENCE

"Prepare, Foster, Protect"

Royal Military Academy,
Brussels, Belgium

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Biography

Prof. (ret.) Dr. Rune LINDING

Dr Rune LINDING completed his PhD at the European Molecular Biology Laboratory (EMBL) in Heidelberg, Germany, followed by postdoctoral training at EMBL. He then jointly trained with professors Tony Pawson and Mike Yaffe at the Lunenfeld at Mount Sinai Hospital in Toronto, Canada, and the Massachusetts Institute of Technology (MIT) in Cambridge, US, respectively. Dr Linding then established his own laboratory of Cellular & Molecular Logic at the Institute of Cancer Research (ICR) in London, UK, before returning to Denmark to take a position as professor of cellular signal integration at the Technical University of Denmark. In 2014, Dr Linding moved his laboratory to the Biotech Research and Innovation Centre (BRIC) at University of Copenhagen where he was professor of cellular signaling. His research group focused on big data network biology and machine learning, exploring biological systems by developing and deploying algorithms aimed to predict cell behavior, in particular looking at cellular signal processing and decision making. Subsequently he moved to Berlin to jointly lead the Klipp-Linding Lab with Prof Edda Klipp. A strategic focus is to continue to develop machine learning based tools (such as ReKINect, KinomeXplorer, NetworKIN, and NetPhorest) and to deploy these on genome-scale quantitative data obtained by, for

example, mass spectrometry, genomic, and phenotypic screens to understand the principles of how spatio and temporal assembly of mammalian signaling networks transmit and process information at a systems level in order to alter cell behavior. A major aim of the lab is to advance network medicine by identifying and targeting signaling networks associated with complex diseases. To this end Dr Linding is currently leading high-level, strategic, multidisciplinary studies of signaling network dynamics driving cancer metastasis in collaboration with other labs at MIT, Yale, Kyoto, Seoul and ICR. To this end Dr Linding is leading high-level, strategic, multidisciplinary studies of signalling network dynamics driving cancer metastasis in collaboration with other labs at Harvard, Yale, Memorial Sloan Kettering Cancer Center and MIT. Dr Linding has been based at HU-Berlin since 2017 as co-PI for the Klipp-Linding laboratory. Since 2025 Dr Linding has served as NATO DIANA Challenge Manager for Human Resilience & Biotechnologies.