

Bio

Sebastian Kapell Ph.D.

Dr. Kapell is a computational virologist serving as Technical Project Lead and Senior Bioinformatician at NEC Oncoimmunity, as well as an Associate Professor at the Department of Vaccine Informatics, School of Tropical Medicine (NEKKEN) at Nagasaki University. His work focuses on vaccine development and the application of machine learning models to design vaccines against emerging infectious diseases. Transitioning from a virologist trained in experimental science to computational programming and data analytics, Dr. Kapell brings a perspective on the implementation of computational methods in vaccine development.

Dr. Kapell earned his doctoral degree from Karolinska Institutet, where he researched host-pathogen interactions. During his postdoctoral fellowship at the National Emerging Infectious Diseases Laboratory (NEIDL) at Boston University, he investigated the role of endogenous protease activity in regulating the innate immune response. Subsequently, as a Bioinformatician at the National Bioinformatics Infrastructure (NBIS), SciLifeLab in Stockholm, Dr. Kapell worked in the clinical proteomics and immunology research platform, developing bioinformatics solutions in area of proteogenomics and precision medicine.