

Clinnova: A precision medicine program in the heart of Europe

Jasmin Schulz

Real-world patient data and artificial intelligence (AI) algorithms are at the heart of an accelerating digital health revolution. It promises direct benefits for people with or without disease and is expected to become a key driver of digital economies. By partnering with Digital Health initiatives in the Grand-Est in France, the Saarland as well as Baden-Württemberg in Germany and Basel in Switzerland, the Clinnova programme takes the necessary steps in establishing a shared approach for data interoperability and data integration bridging the worlds of biomedical research and healthcare.

Conceptualized to function across borders, Clinnova is a precision medicine initiative involving leading clinicians across University hospitals and private clinics in Luxembourg, France, Germany and Switzerland. Using clinical, biomedical and patient-generated data from prospective patient cohorts, the Clinnova partners emphasize data quality and standardization to train effective AI algorithms. The primary end-point is therapeutic decision support for personalized treatment in chronic, immune-related diseases. In a second step, Clinnova intends to accelerate fundamental research by enabling hypothesis-driven efforts to delineate shared disease aetiologies, novel biomarkers and therapeutic targets as well as preventative cues. Clinnova's inbuilt focus on patient-centred application, moreover, should help nucleate economic activity and value generation in a digital health economy.

Biosketch

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CURRENT AND PAST POSITIONS

Since 2023: Strategic Programme Lead, LIH, Luxembourg.

2020–2022: Strategic Programme Manager, LIH, Luxembourg.

2018–2020: Project Manager, LIH, Luxembourg.

2017–2018: 100,000 Genomes Project Manager, NHSE, Oxford, UK.

2015–2017: Medical Editor, Caudex Oxford, UK.

2014–2015: Postdoctoral Researcher, University of Oxford, UK.

EDUCATION

2009–2014: DPhil (PhD) in Clinical Medicine, Ludwig Institute for Cancer Research at University of Oxford, UK.

2004–2009: Diplom in Biology, Eberhard Karls University Tübingen, Germany and Ecole Normale Supérieure de Lyon, France.

OTHER RELEVANT PROFESSIONAL ACTIVITIES AND ACCOMPLISHMENTS

Coordination of Phase 1 of the Large-Scale SARS-CoV-2 testing in Luxembourg.