

Dr Yvan Devaux



Biosketch

With a background training in Health and Biological Sciences, Dr Devaux has more than 20 years of research in molecular diagnostics and is the leader of the [Cardiovascular Research Unit of the Luxembourg Institute of Health](#). His main research interest and expertise is the discovery and validation of novel RNA biomarkers and therapeutic targets of brain and heart diseases. Addressing complex diseases requires a systemic approach, hence his goal to tackle brain-heart interactions, considering that "A good head and a good heart are always a formidable combination" (Nelson Mandela, April 1st, 1976). His research is translational and he believes that multidisciplinary collaboration is key. One of his professional goals is to bring together complementary expertise from clinicians, basic researchers, bioinformaticians, artificial intelligence experts, computational biologists, health economics and social sciences and humanities experts, as well as industrial partners and entrepreneurs towards the satisfaction of unmet medical needs. His team has developed and extensively validated biomarker discovery pipelines based on deep sequencing, bioinformatics approaches, complex statistics, artificial intelligence and machine learning. His current focus is on RNA biomarkers and therapeutic targets of heart failure, acute coronary syndrome, cardiac arrest, and Parkinson's disease. He is active in several editorial, scientific and industrial boards and policy networks. He is the founder of the Cardiolinc non-profit organization and co-chair of the AtheroNET COST Action. He is a member of the Luxembourg Plan for Cardiovascular and Neurological Diseases and a Fellow of the European Society of Cardiology. He has published more than 200 peer-reviewed scientific articles and has a Scopus H-index of 40.