



Luca Berdondini was born in 1974, in Locarno (Switzerland). He received the M.Sc. degree in micro engineering from the Swiss Federal Institute of Technology of Lausanne in 1999 with a Master Thesis at Caltech (USA). After a short working experience in robotics, he began his Ph.D. studies in the field of bio-electrochemical sensor arrays at the Sensors Actuators and Microsystems Laboratory of the Institute of Microtechnology, University of Neuchâtel. He received his Ph.D in 2003 with a thesis on micro- and nano-fabricated interfaces for in-vitro electrophysiology, introducing an innovative concept for high-resolution CMOS based microelectrode arrays (MEAs). Post-doctoral R&D (2003 – 2007) was oriented on the development of chip integrated solutions for in-vitro neurophysiology and bio-sensor applications, contributing to EC and industrial funded projects. Currently, Luca Berdondini leads the NETs3 of Neuroscience and Brain Technologies (Genova, Italy). His current research focuses on the development of high-resolution neuroelectronic platforms based on CMOS-technology enabling recordings from thousands of micro-/nano-electrodes for electrophysiology and neuroscience.