

Sample source

Liquid biopsy or tissue



Cell cultures



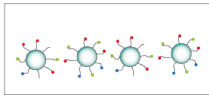
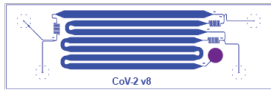
Bacteria



Viruses

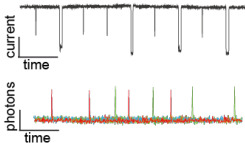
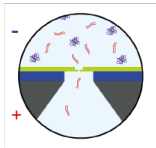


On-chip or on-beads sample preparation



Extraction (lysis), Reverse transcription, Enzymatic digestion

Nanopore based molecular quantification using electrical or electro-optical digital sensing



Multi-dimensional analysis assisted by deep learning approaches

