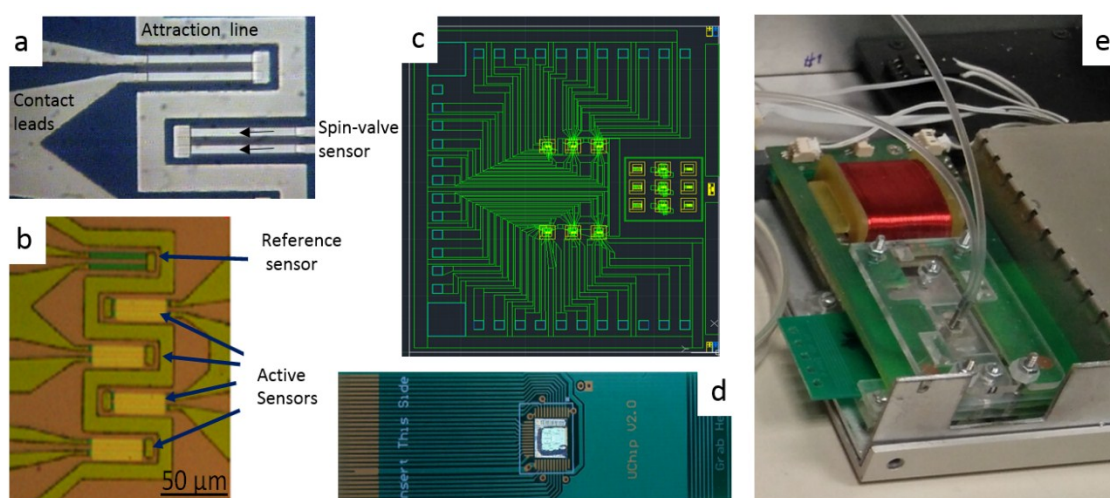


Supplementary Figure 1



Supplementary Figure 1: Magneto-resistive biochip: a) magneto-resistive thin film sensors, with the surrounding current lines, b) four active sensors (with gold) plus a reference sensor (without gold), c) design of the entire chip, including test and six sensing regions each one including 4+1 sensors, d) chip mounted on a PCB card, protected with silicone and with the sensor area accessible to the top microfluidics module and e) integrated platform, with the PCB inserted and the microfluidics.