A MINIATURIZED LAB THAT TRACKS HEALTH AND PERFORMANCE DIRECTLY ON YOUR SKIN WITHOUT INTERFERING WITH EXERCISE

**XSENSIO : FOR TAKING PHYSIOLOGICAL MEASUREMENTS BEYOND THE REACH OF CONVENTIONAL SENSORS**

Wearable technologies today offer only a glimpse of the physical state of a person, with limited and often not accurate information collected on the body, essentially with activity and sleep tracking and heart rate monitoring. To get a more accurate picture of the health and wellness of an individual though, biochemical information needs to be taken into account. This is typically done with a blood test, a process that is precise, but invasive and certainly not continuous: it only gives a snapshot at a given point in time. Very often though, what is of interest is what is happening in-between those snapshots, to capture subtle changes early on. Sweat offers a very compelling non-invasive alternative to blood testing: it is continuously produced by the body, available in a non-intrusive way for testing, and more importantly, it is biomarker-rich. Furthermore, sweat is routinely tested by the medical community for the detection of cystic fibrosis, drug abuse and athletic performance optimization in a hospital setting.

Xsensio considerably expands the potential of wearable products with the development of a unique Lab-on-Skin™ wearable chip that continuously analyzes biomarkers at the surface of the skin to provide real-time health information. The 1 x 1 cm chip can contain thousands of Xsensio's proprietary miniature sensors, each modulated to target a specific biomarker of interest - e.g. electrolytes, proteins, molecules, hormones - to monitor a specific health condition. The Lab-on-Skin™ wearable chip has been developed in collaboration with the EPFL Nanolab.