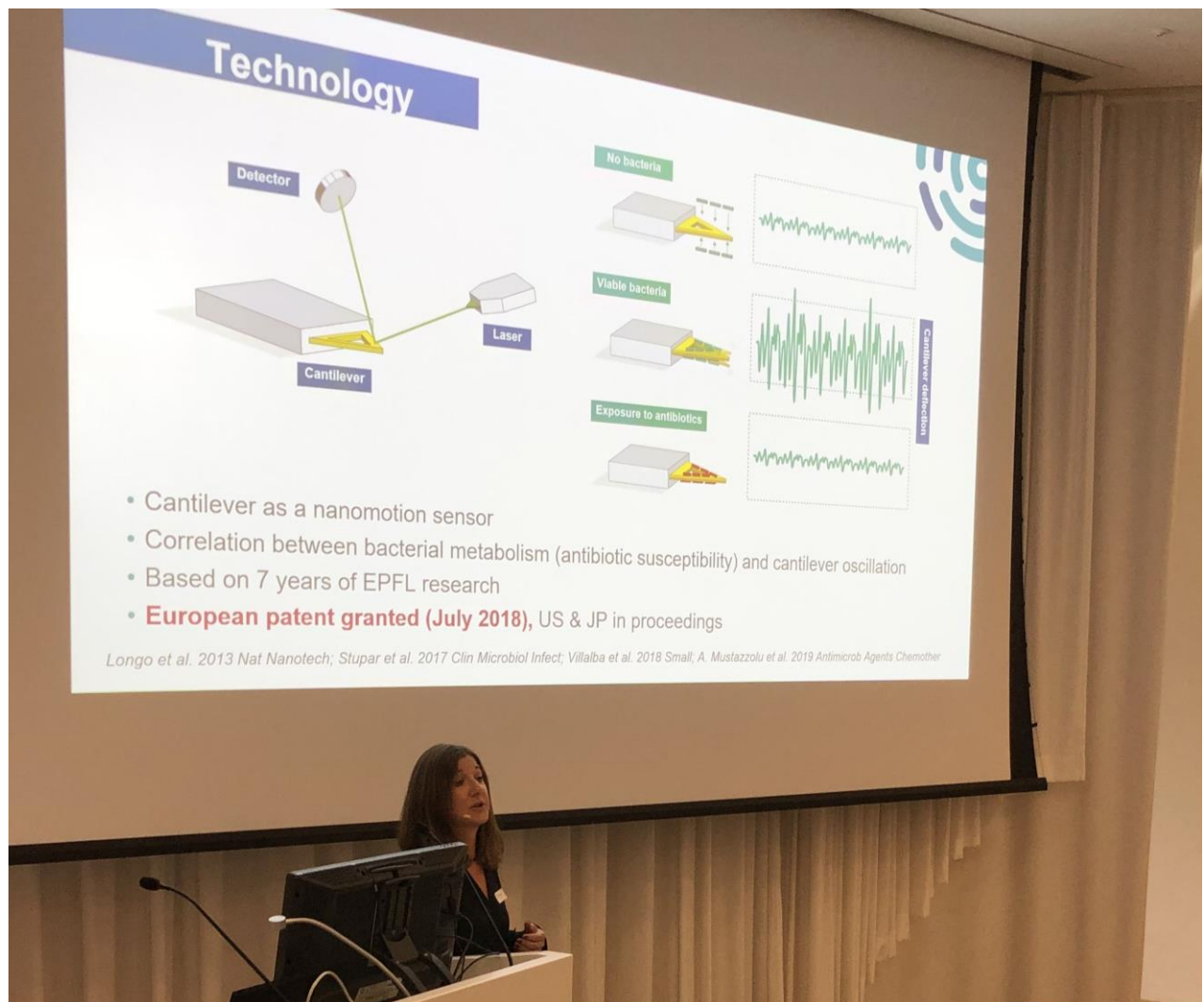


University & Start-ups – a love affair?



The slide, titled "Technology", illustrates a cantilever-based sensing system. It features a 3D diagram of a cantilever with a detector at one end and a laser at the other. To the right, three scenarios are shown with corresponding graphs of cantilever deflection:

- No bacteria:** Shows a flat cantilever and a graph with a flat line, indicating no deflection.
- Viable bacteria:** Shows a cantilever with bacteria attached, causing it to bend downwards. The graph shows a large, sustained oscillation, labeled "Cantilever deflection".
- Exposure to antibiotics:** Shows the cantilever with bacteria after antibiotic treatment. The graph shows a significantly reduced oscillation, indicating that the bacteria are no longer viable.

Below the diagrams, the slide lists key points:

- Cantilever as a nanomotion sensor
- Correlation between bacterial metabolism (antibiotic susceptibility) and cantilever oscillation
- Based on 7 years of EPFL research
- **European patent granted (July 2018)**, US & JP in proceedings

At the bottom of the slide, a list of references is provided: *Longo et al. 2013 Nat Nanotech; Stupar et al. 2017 Clin Microbiol Infect; Villalba et al. 2018 Small; A. Mustazzolu et al. 2019 Antimicrob Agents Chemother*

University Vice-Rector Torsten Schwede talked this week at the annual BioValley & BioBac event with more than 100 participants. He introduced the new entrepreneurial innovation initiative of the University of Basel, which seeks to support innovation to increase societal impact. T3 Pharmaceuticals CEO Simon Ittig reported on the positive experiences of the start-up: In his view, key success factors are the will of society, politicians and university to support emerging companies, infrastructure and access to non-dilutive financial support. As an example of an early-stage company, Aukera, a project developing an mTOR drug discovery platform, sought further support and managed to get first contacts with experienced professionals at the event. Thereafter the CEOs of three Start-Up show-cases (Resistell, Inthera Bioscience and AOT - Advanced Osteotomy Tools) presented their companies. One participant commented: "... extremely interesting and excellent presentations where one could feel the personal engagement behind the individual projects." Immediately prior to the event Trudi Haemmerli (PerioC and TruStep Consulting, Board member Innosuisse) and Christian Elias Schneider (Head of Innovation & Entrepreneurship University of Basel) were elected to the Board of BioValley Basel. A very warm welcome to both of them.

