

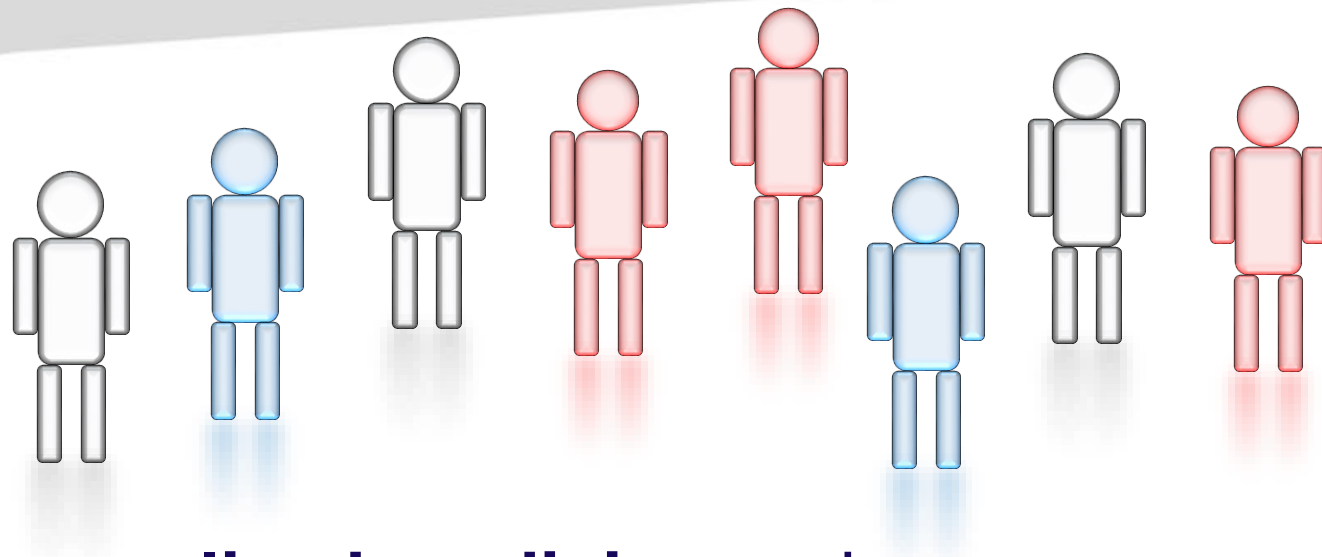
Flexible production of microfluidic Lab-on-Chip systems for IVD applications



Jan Hesse

Successful R&I in Europe 2018: 9th European Networking Event

16.03.2018



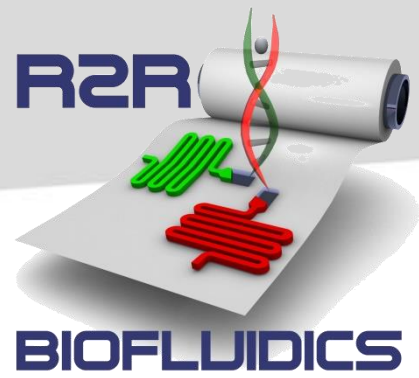
The challenge

**Personalized medicine and
companion diagnostics
optimised to individual patients ...**

... demand for frequent diagnostic testing

**... which is often not available
or too expensive.**





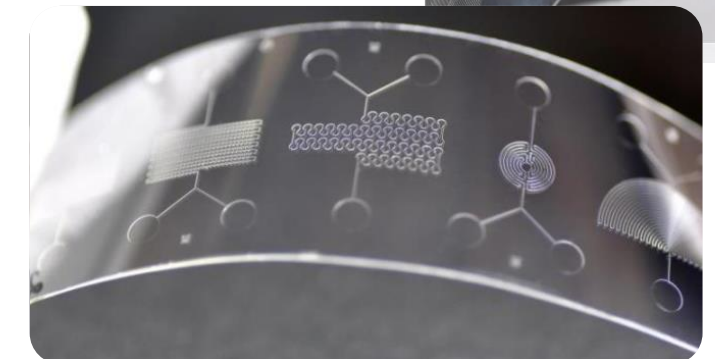
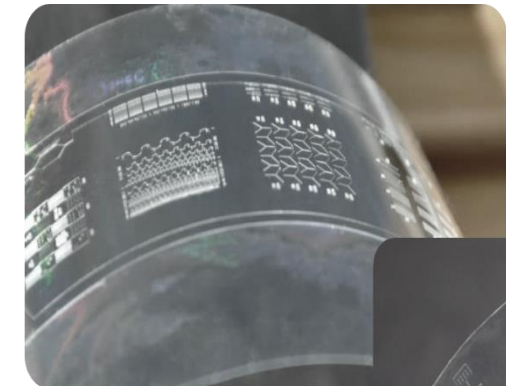
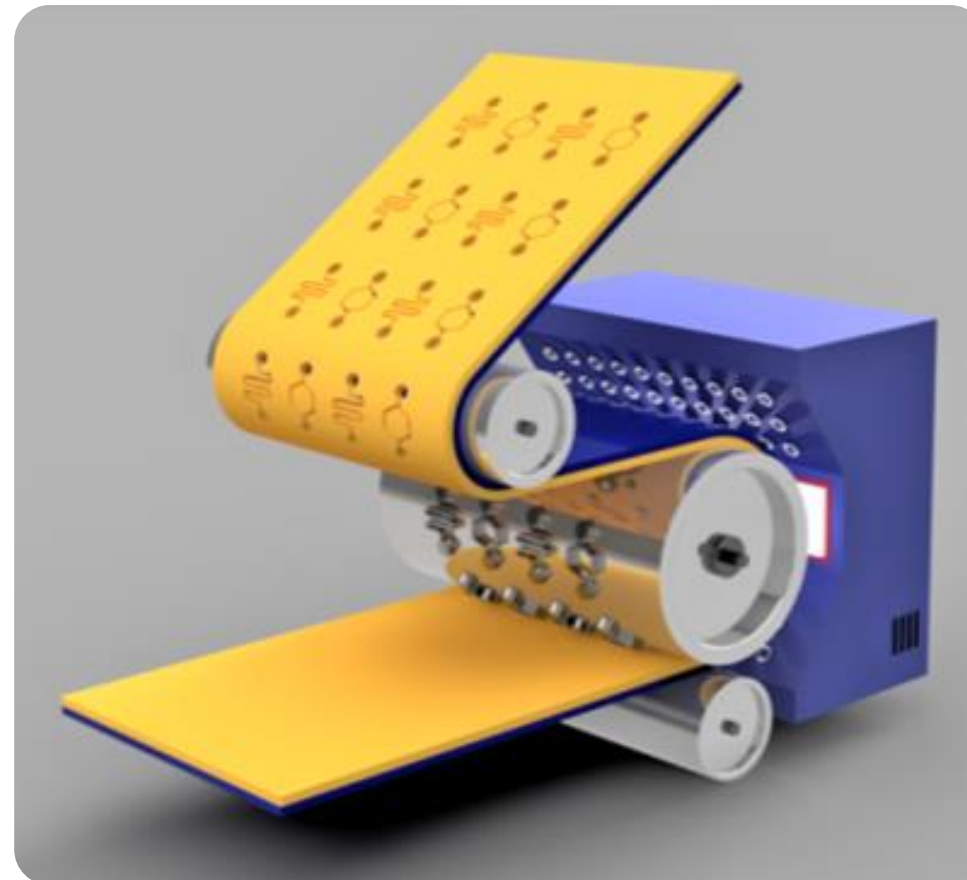
Roll-to-Roll structuring

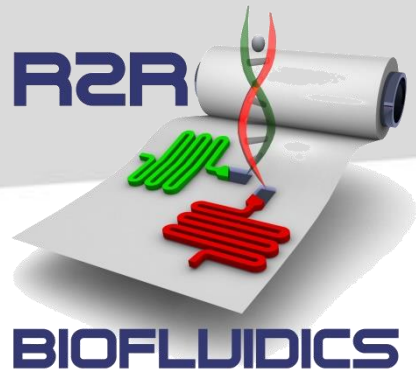
High throughput structuring
of microchannels and reaction
chambers for biosensors:

hundreds of chips per minute

μm to mm lateral structures

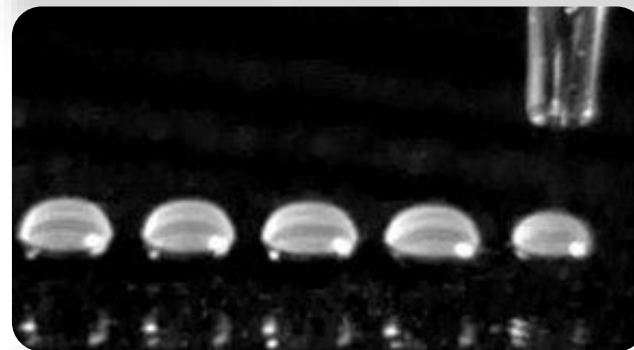
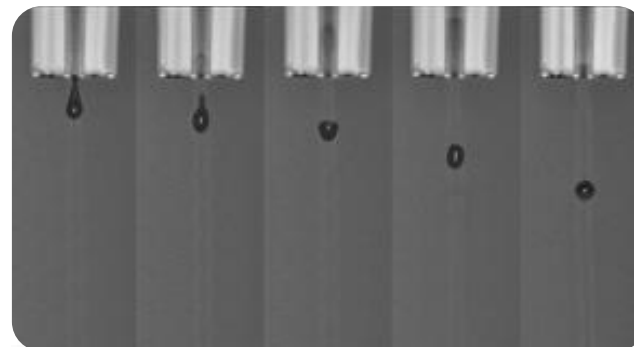
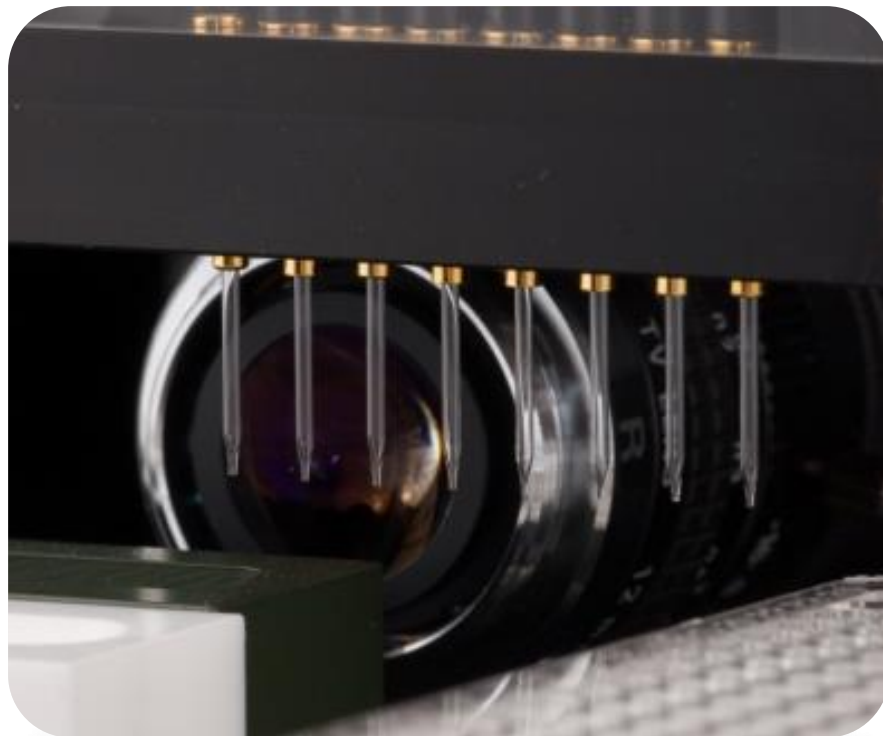
analysis of nano- to microliters





Roll-to-Roll Biofunctionalisation

Development of first Roll-to-Roll Microarray Spotting unit world wide

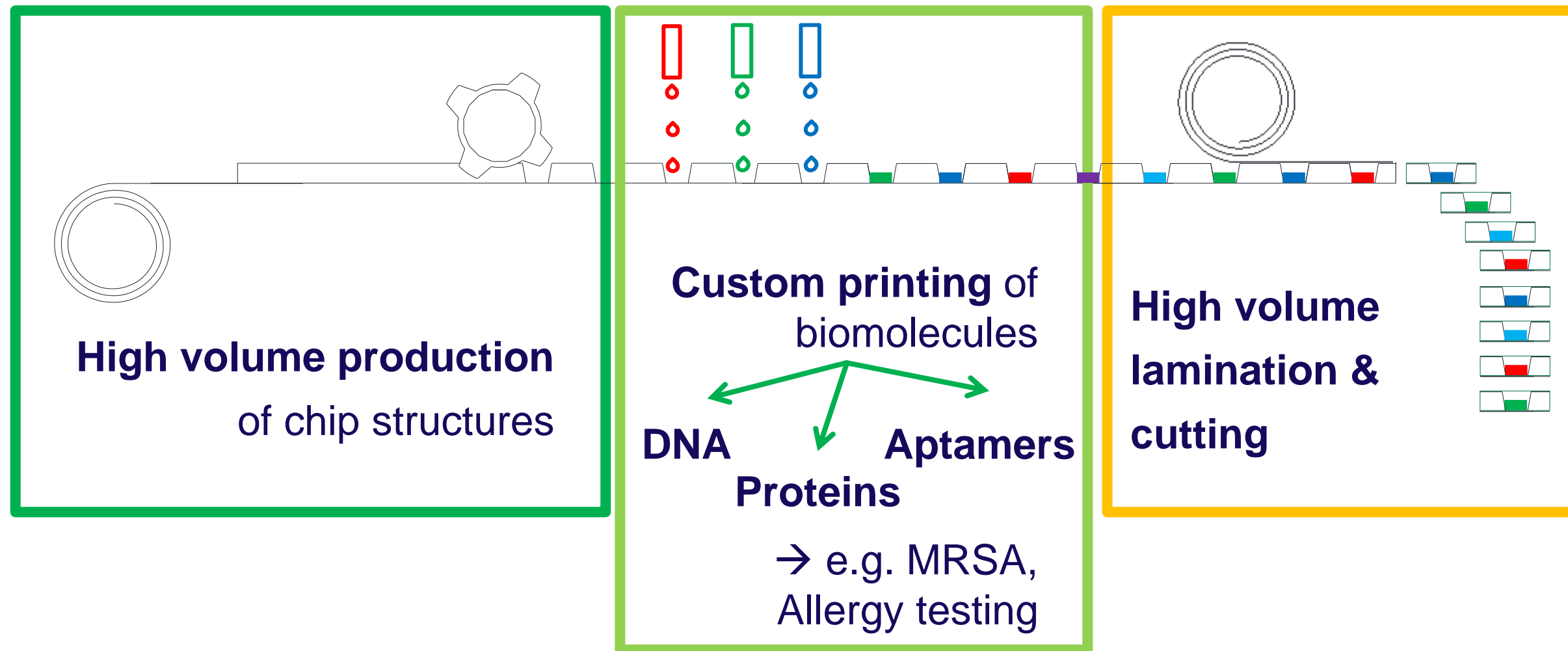


scienion
ENABLING LIFE SCIENCE

Well established technology for biofunctionalisation:

- high-throughput
- multi-parameter

Full pilot line: high throughput with custom functionality



Flexible production of microfluidic Lab-on-Chip systems for IVD applications

Partners sought ...

- H2020 proposals (partners / coordinators)
- assay developers
- in-vitro diagnostics suppliers
- manufactures & distributors for commercialisation of diagnostic chip concepts

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