First pilot line for R2R imprinting and R2R biomolecule microarray printing

The consortium of R2R Biofluidics has set up the first pilot line, which combines R2R imprinting of microfluidic structures with subsequent biomolecule printing by R2R Microarray Spotting in October 2018. For this purpose, the project partner SCIENION developed a customized sciFLEXARRAYER which was included in a new R2R pilot line at JOANNEUM RESEARCH. R2R microspotting will now be used for test production of biosensors as well as next generation cell culture substrates – aiming at future high volume manufacturing at dramatically reduced production cost.

Holger Eickhoff, CEO of SCIENION AG, stated: “Introducing roll-to-roll technologies for high-throughput manufacturing of diagnostic tests represents a quantum leap: it will notably lower the production costs of flexible devices and will increase manufacturing capacity. We are heading for a new and unrivalled level of diagnostic device production.”

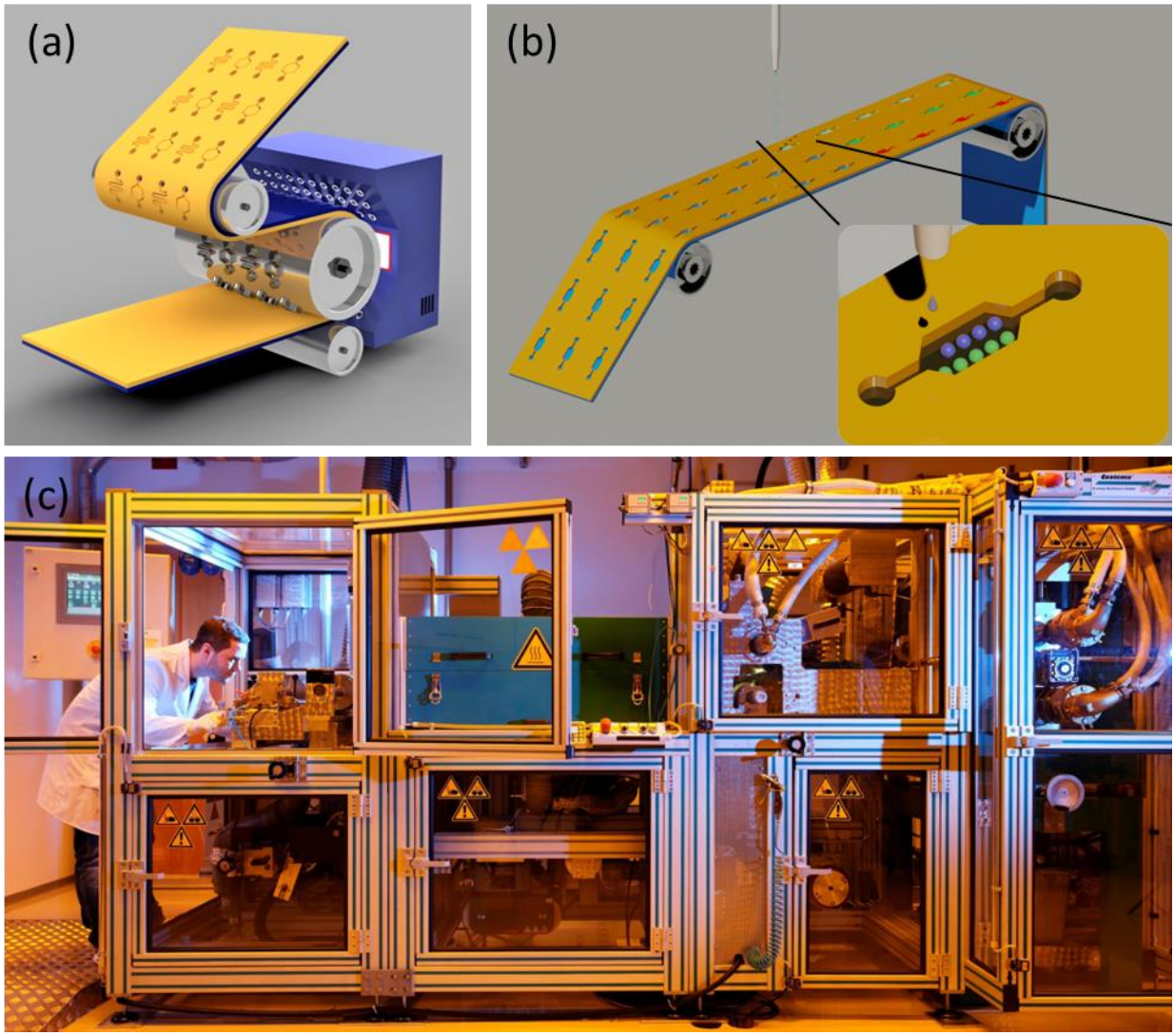

Figure 2: Schematics of R2R imprinting (a) and R2R microarray spotting (b) together with the R2R facilities of JOANNEUM RESEARCH – MATERIALS (Weiz, Austria). Images: JOANNEUM RESEARCH

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