

Title:

A blockchain-orchestrated, participatory research model boosted by open platforms and virtualization.

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Abstract: For more than a century, research has been mostly “siloeed” in traditional institutions. Yet, access to scientific resources becomes increasingly available, in particular in terms of cloud computing, digital manufacture and “Science as a Service” labs. Along the example of the centrifugal microfluidic “Lab-on-a-Disc” platform for sample-to-answer automation of multiplexed bioassays, this presentation sketches how a participatory research approach nucleated by open-platform and virtual, “digital twin” concepts can be efficiently coordinated and incentivized by latest blockchain technology. The objective is to seminally improve quality, reproducibility, efficiency, impact and global inclusiveness of research.

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