







Photonics Technologies for Pharmaceutical 3D printing

Dr. Alvaro Goyanes Director and Co-Founder



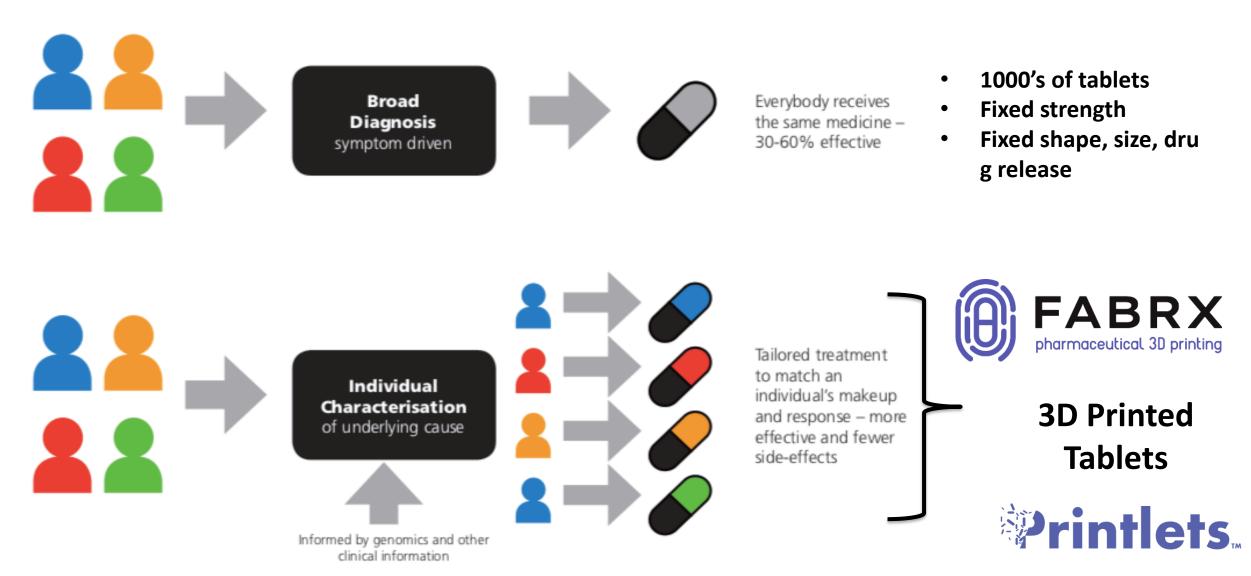
a.goyanes@FabRx.co.uk



@FabRx_3DP

A Personalised Paradigm Shift





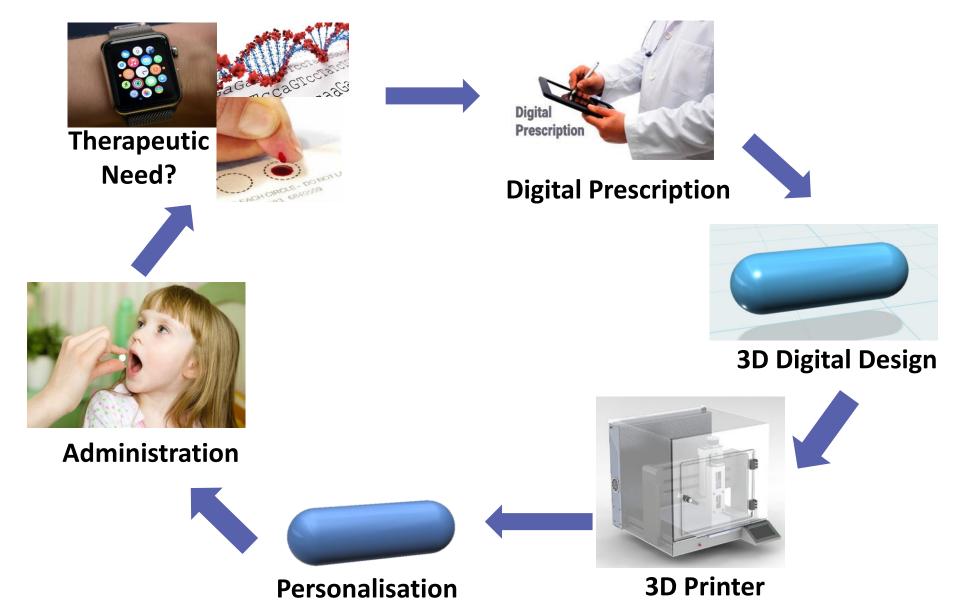
Pharmaceutical 3D Printing



Patient-centric medication made easy

The virtuous cycle of personalised medicine





The virtuous cycle of personalised medicine







Software integration









Artificial intelligence



3D Digital Design

Administration



Pharma-ink



Personalisation



3D Printer



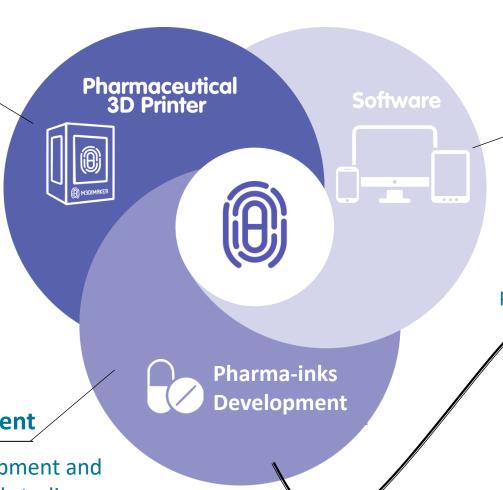
3D Printer

What we envision



M3DIMAKERTM printers

For personalised medicine and clinical trial batch manufacture



M3DIMAKER Studio Software

For printer control CFR 21 Part 11 compliant

"Nespresso Model"

Development and commercialization of pharma-inks cartridges ready-to-be-used in our 3DPrinters



Pharma-inks Development

Consultation, formulation development and analysis from concept to clinical studies

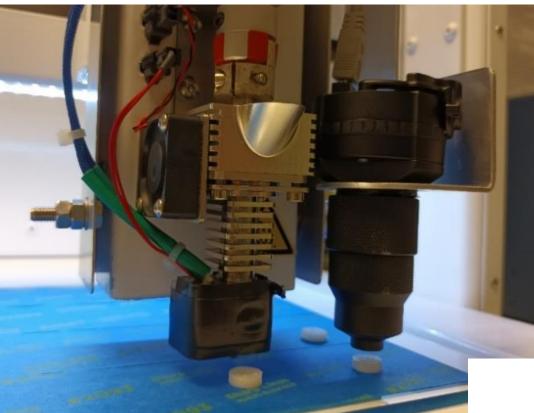


What we envision

NIR for Quality Control









Replicator - Star Trek

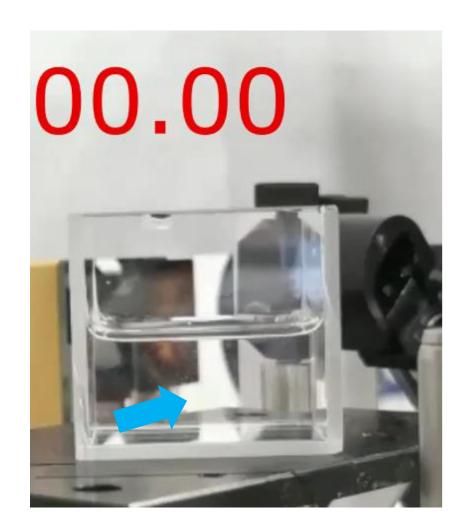


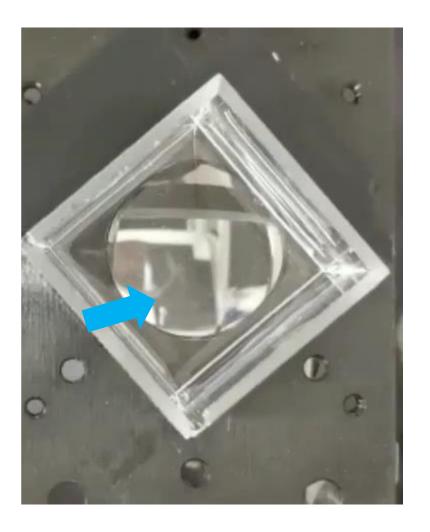




Volumetric printing

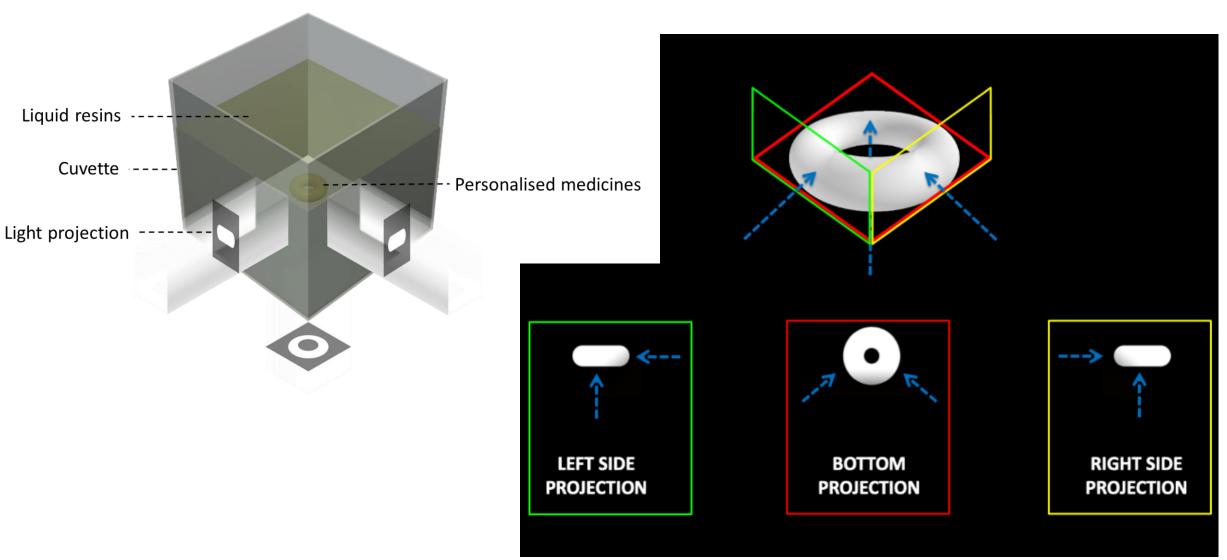






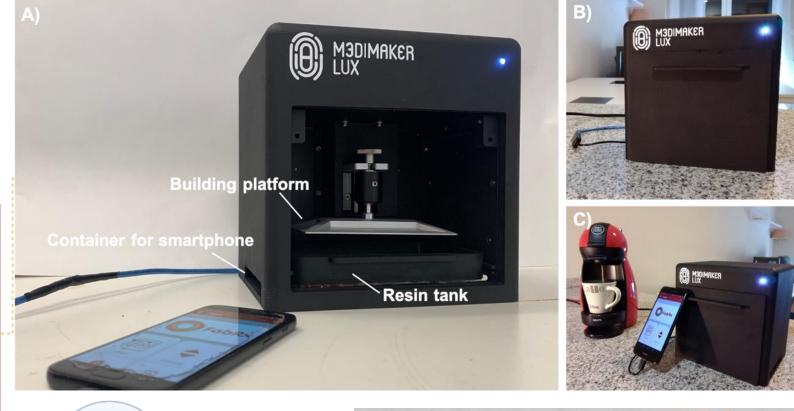
Volumetric printing





Smartphone 3D printing at home?









Xu et al., Int. J. Pharm. 609 (2021) 121199



Thank you!



Innovate UK





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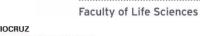
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Contents lists available at ScienceDirect

Advanced Drug Delivery Reviews

journal homepage: www.elsevier.com/locate/adr

Translating 3D printed pharmaceuticals: From hype to real-world clinical applications

Iria Seoane-Viaño a,1, Sarah J. Trenfield b,1, Abdul W. Basit b,c,*, Alvaro Goyanes b,c,d,*























