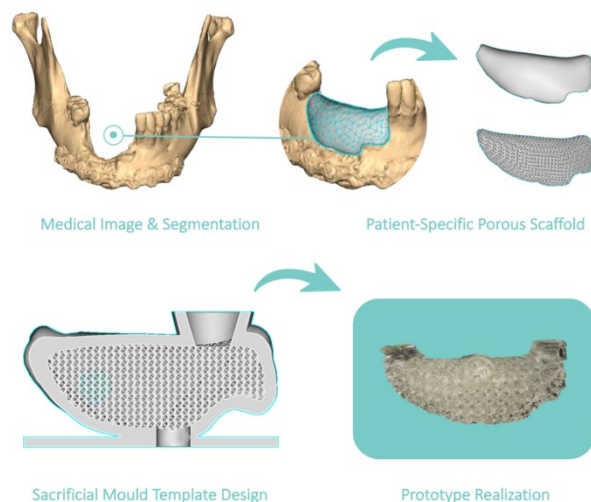
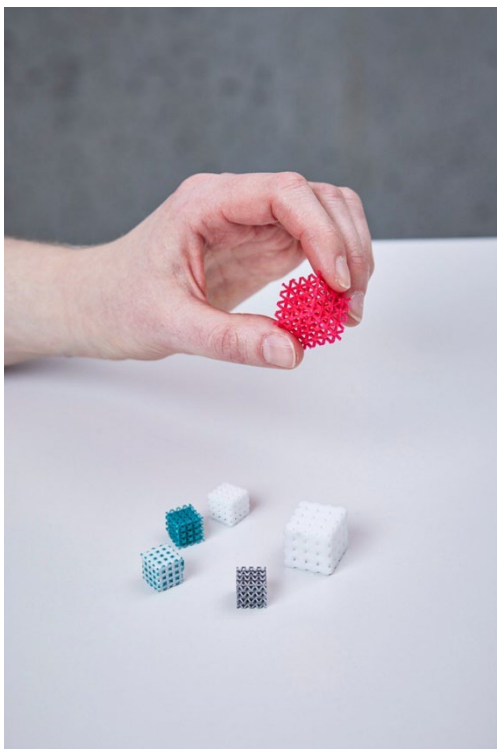


Success Story sallea®

The prospective start-up sallea develops novel highly porous, three-dimensional structures, so-called scaffolds for applications demanding for cell in-growth such as tissue engineering, drug screening and cellular agriculture. During their studies, the co-founders Dr. Nicole Kleger and Simona Fehlmann developed a patent-pending process which allows to structure a broad range of materials into scaffolds, among which magnesium is a hot candidate for bone reconstruction. While the manufacturing process has been demonstrated previously, its applicability for relevant indications has not yet been confirmed. Thanks to the financial and organizational support of the Innovation Booster Additive Manufacturing (IBAM), an interdisciplinary collaboration between the Swiss Medical Additive Manufacturing (Swiss MAM) research group / 3D Print Lab at the University Hospital Basel (established under the leadership of Prof. Dr. mult. Florian Thieringer) and sallea was initiated to realize a first proof-of-concept of a porous magnesium jaw implant. In this collaborative effort, the team around Dr. Neha Sharma (Deputy Head 3D Print Lab USB) and Michaela Mainz (PhD student) focused on the medical image processing and digital modelling (design strategies) of the part, whereas the researchers at sallea realized the part via indirect additive manufacturing. The project's successful outcome is now providing the starting point for a larger collaboration with an industrial partner.



Figures:

Left: lattices prepared by sallea.

Right: Process and first prototype realized in the framework of the IBAM funding.

Further information and Contact:

Innovation Booster Additive Manufacturing IBAM
<https://ibam.swiss>

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