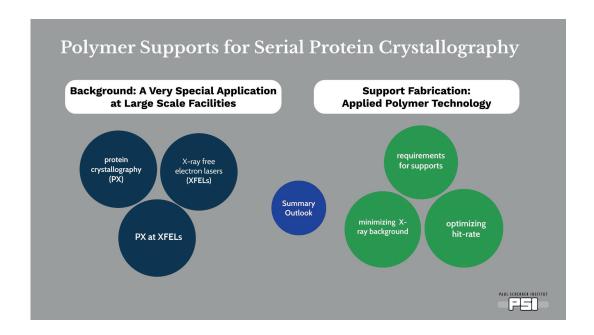


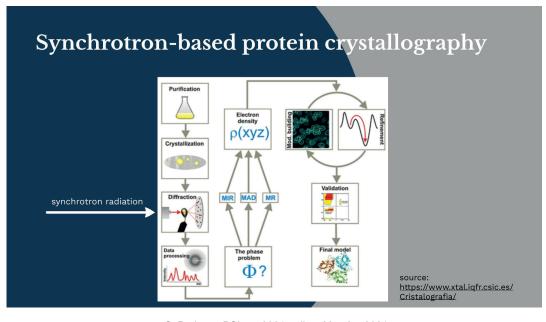


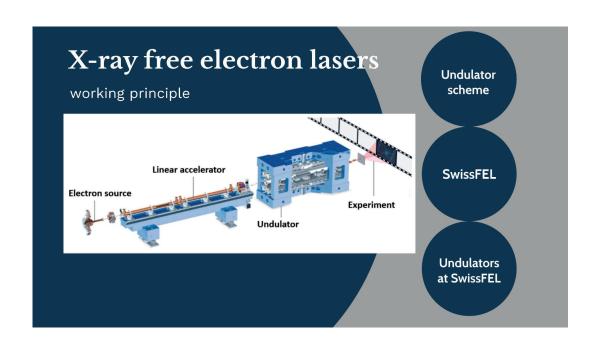
Celestino Padeste :: Lab. of Nanoscale Biology :: Paul Scherrer Institut :: 5232 Villigen PSI

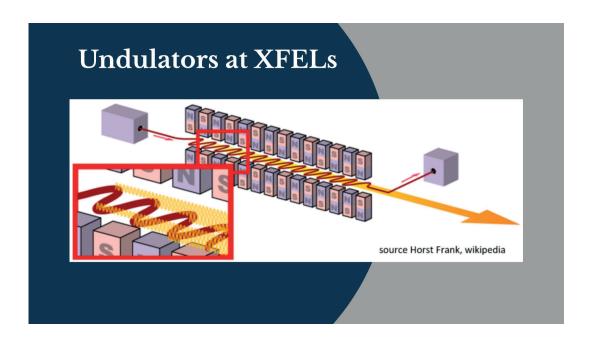
Polymer supports for serial protein crystallography at X-ray free electron lasers

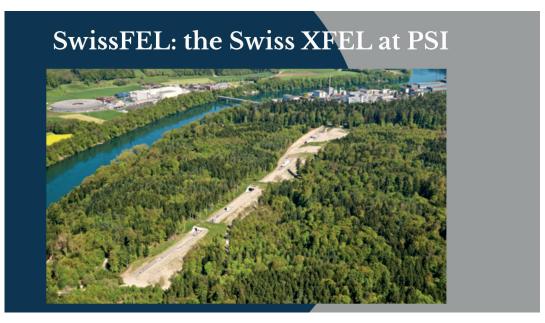
prn2021-online, May 27, 202



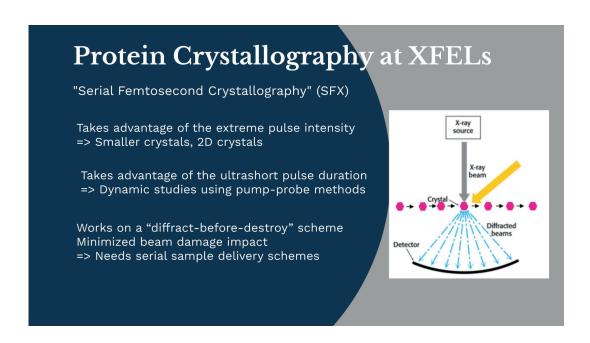


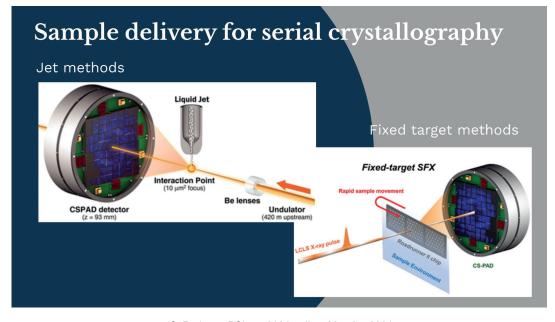


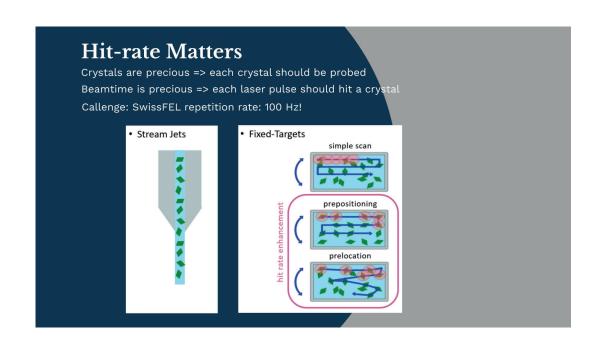












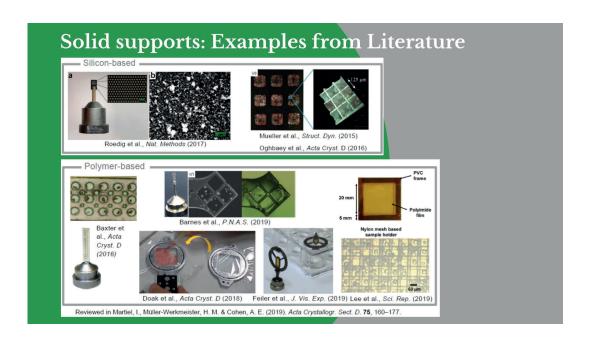


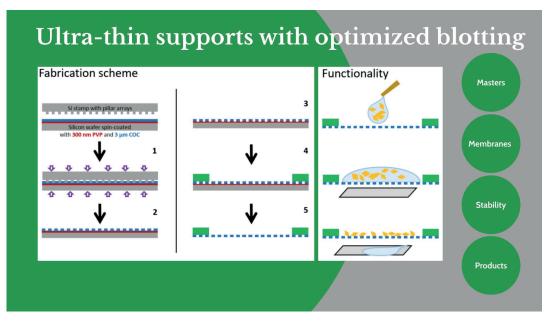


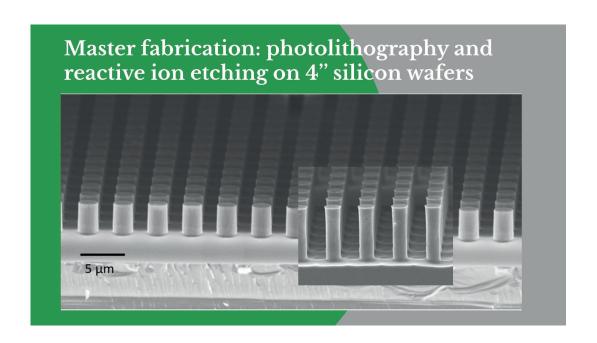
Requirements for Supports

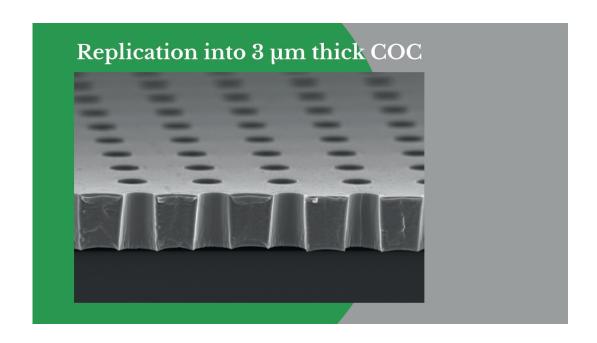
- Low X-ray absorption
- · Low X-ray scattering
- Simple sample deposition
- Efficient blotting of mother liquor
- Support shock-freezing (for cryo-measurements)
- Maintain humidity (for RT-measurements)

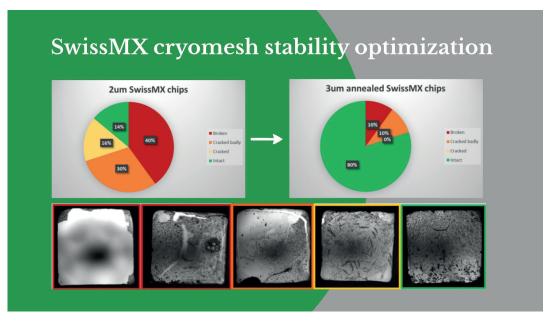
Existing solutions

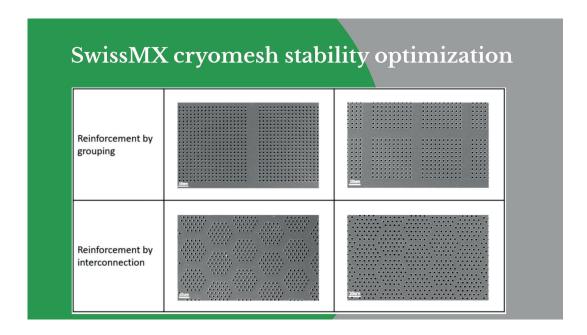






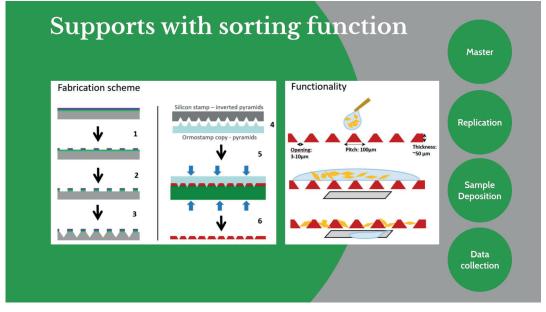


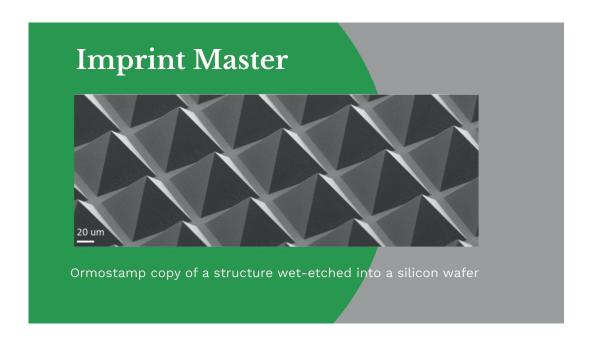


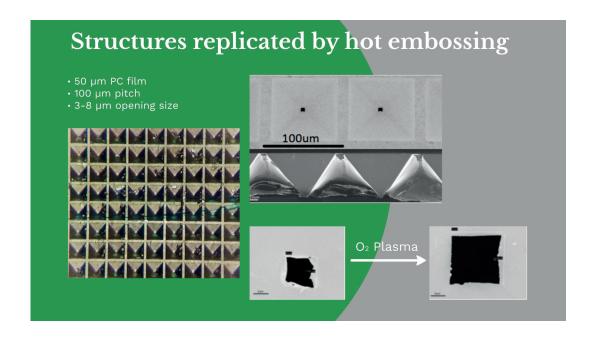


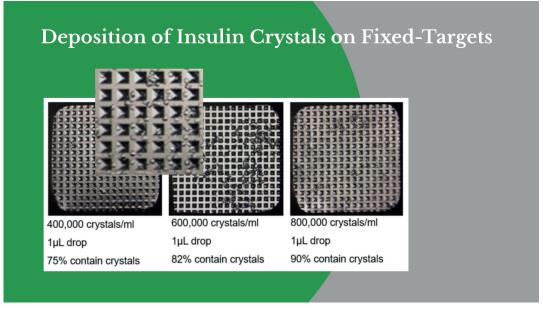


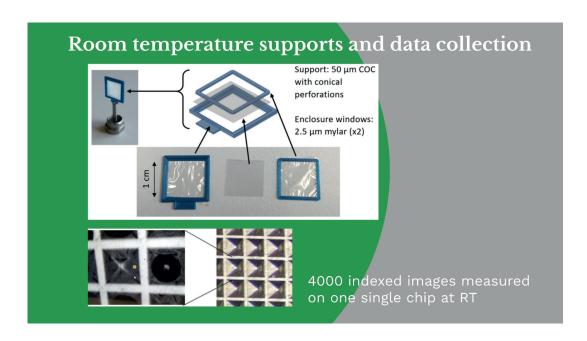
A. Karpik et al. Micro and Nano Engineering, 7, 2020, 100053

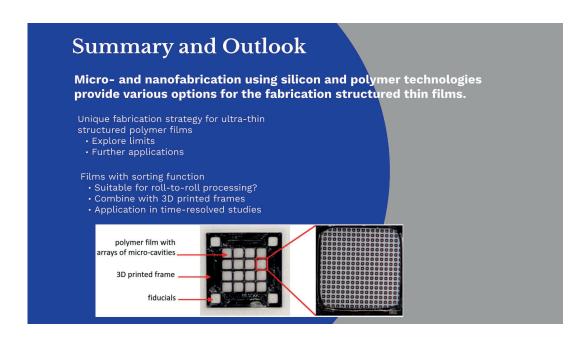












Contributing authors: Isabelle Martiel, John Beale, Agnieszka Karpik, Magnus Kristiansen, Melissa Carrillo LMN technology: Konrad Vogelsang, Dario Marty Funding: Aargauer Forschungsfonds, LeadXpro, Swiss Nanoscience Institute