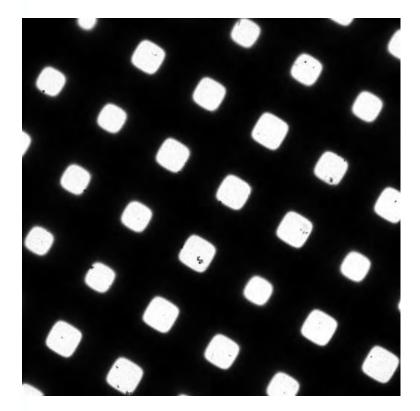
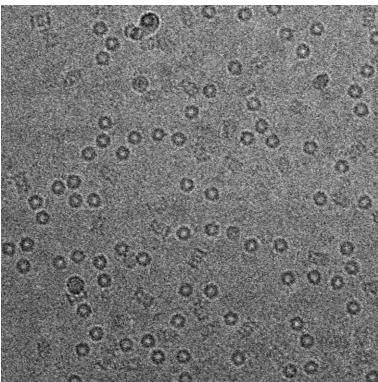


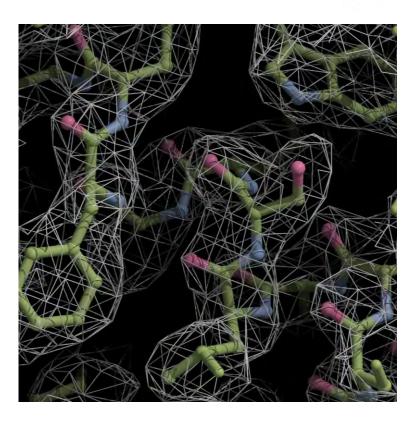
VitroJet

Bridging the Gap in Sample Prep

Expectation

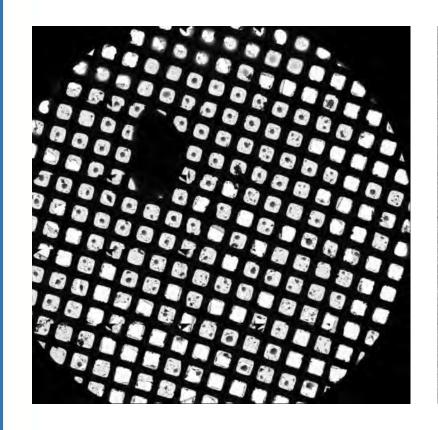


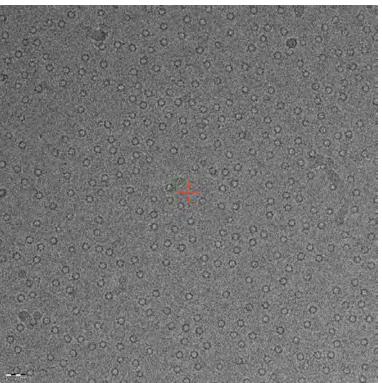


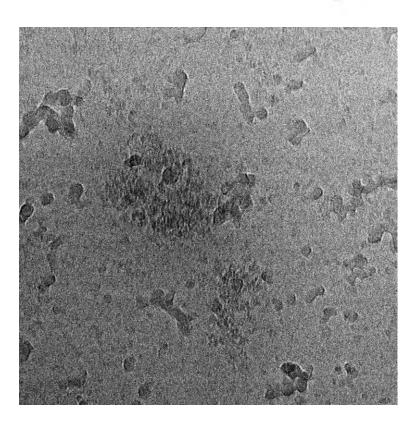




Reality









Journal of Microscopy RMS

Current outcomes when optimizing "standard" sample preparation for single-particle cryo-em

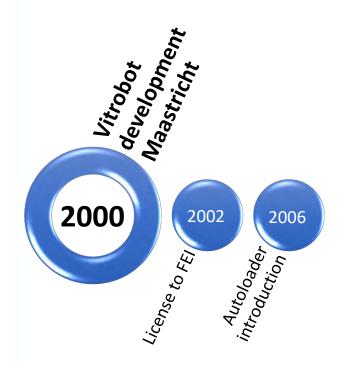
BRIDGET CARRAGHER, YIFAN CHENG, ADAM FROST, ROBERT M. GLAESER ★, GABRIEL C. LANDER, EVA NOGALES, HONG-WEI WANG

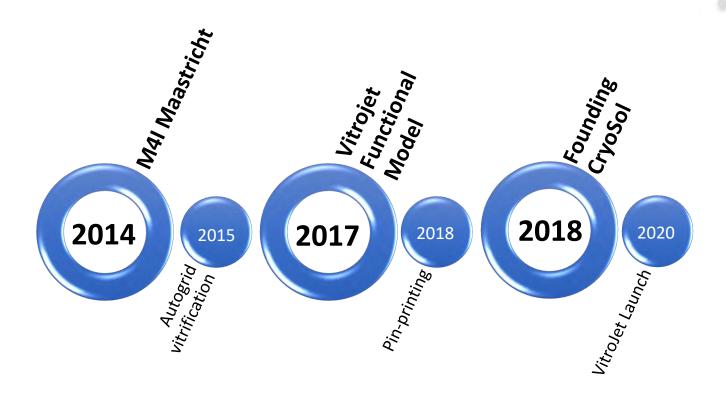
First published: 25 September 2019 https://doi.org/10.1111/jmi.12834

"Success on the first few attempts is rare; optimization is needed more often than not"

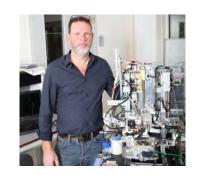
"None of the existing optimization methods works consistently well for different kinds of specimens"









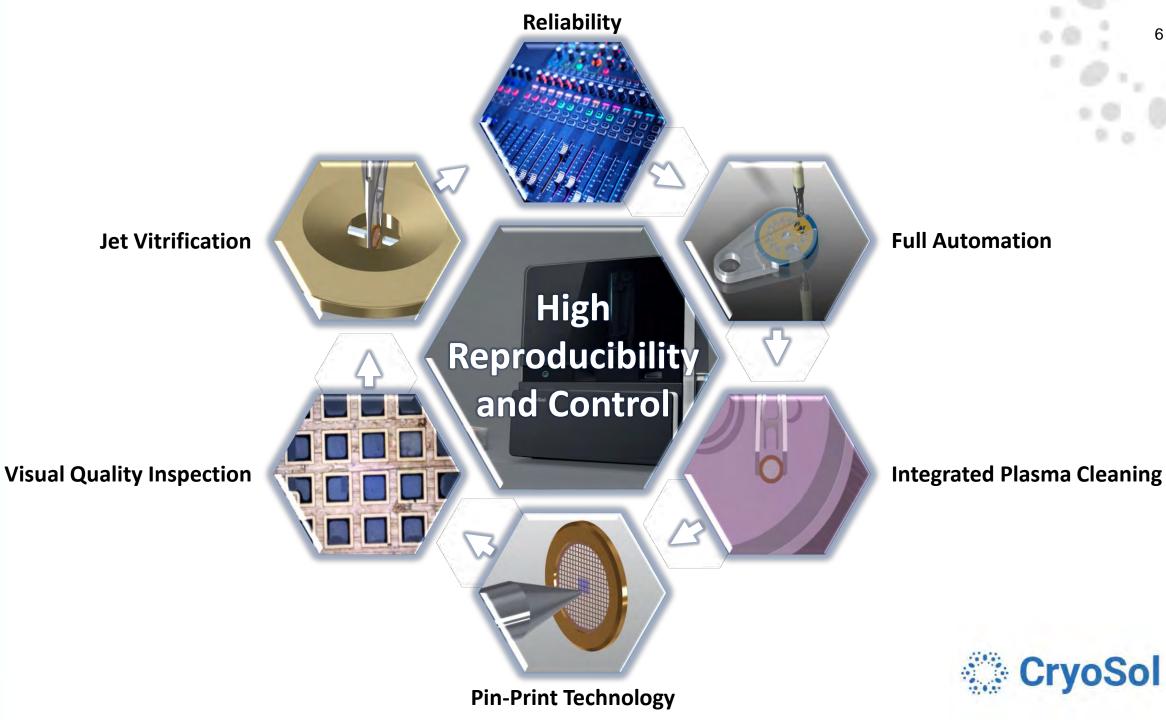




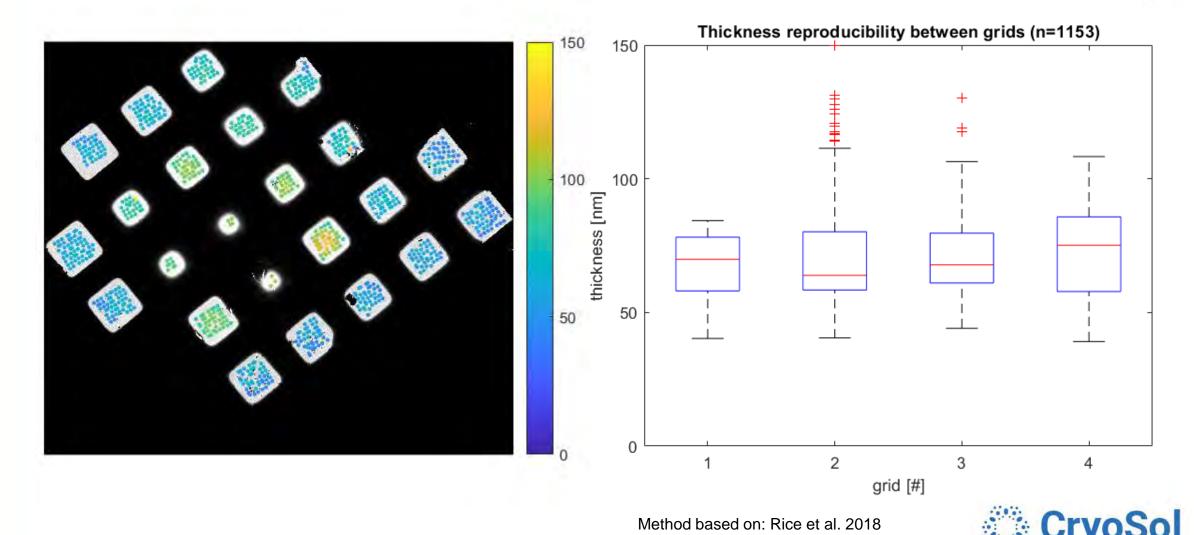




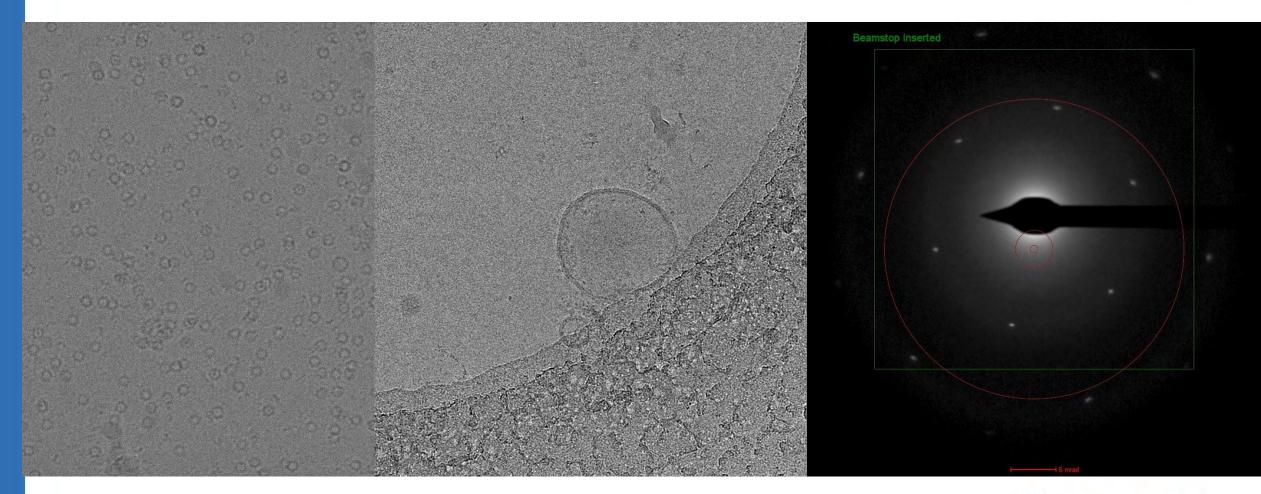
CryoSol



Reproducibility

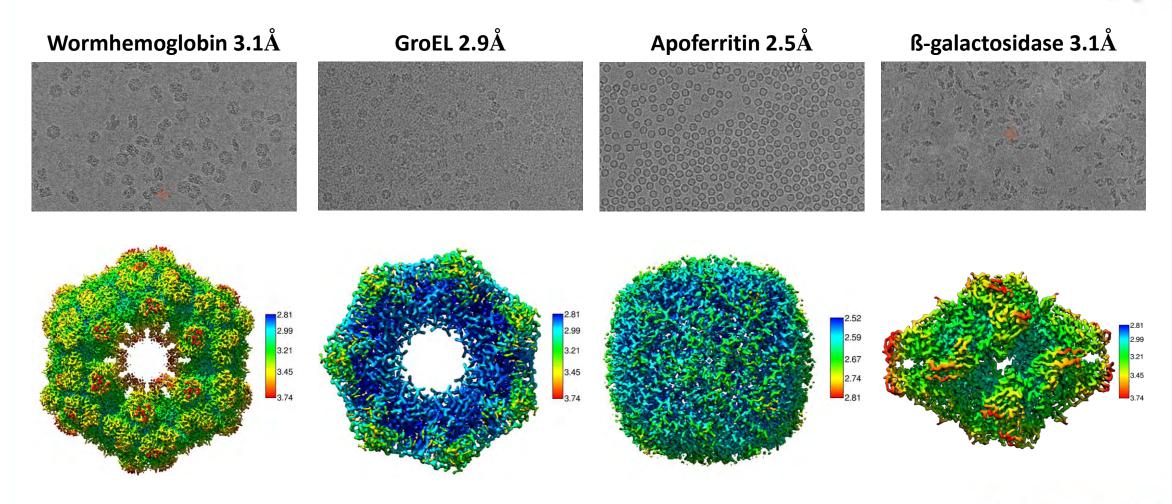


Examples

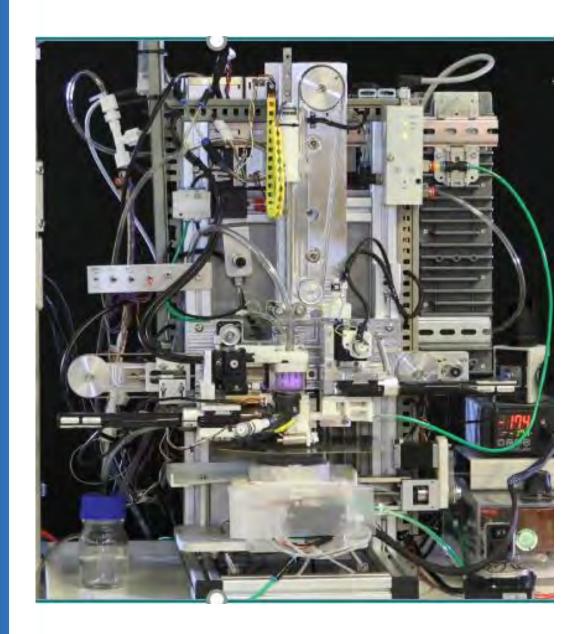




Proof of Principle (200kV)



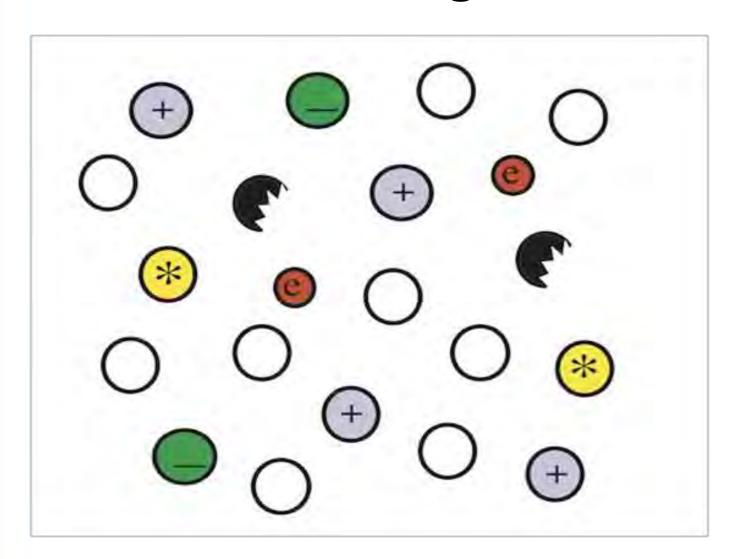








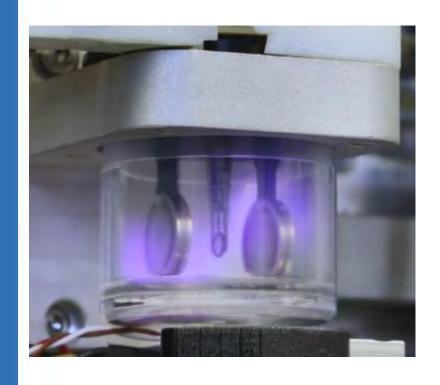
Plasma Cleaning

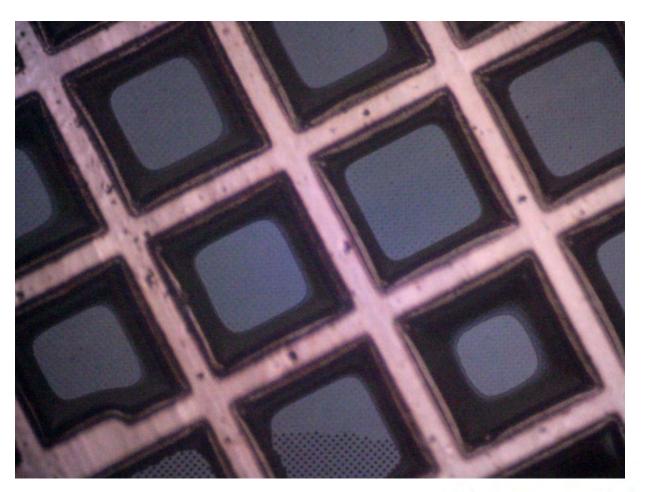


- Gas molecules
- Gas molecules (excited)
- + lons
 - Free electrons
 - Molecule fragment (high-energetic)



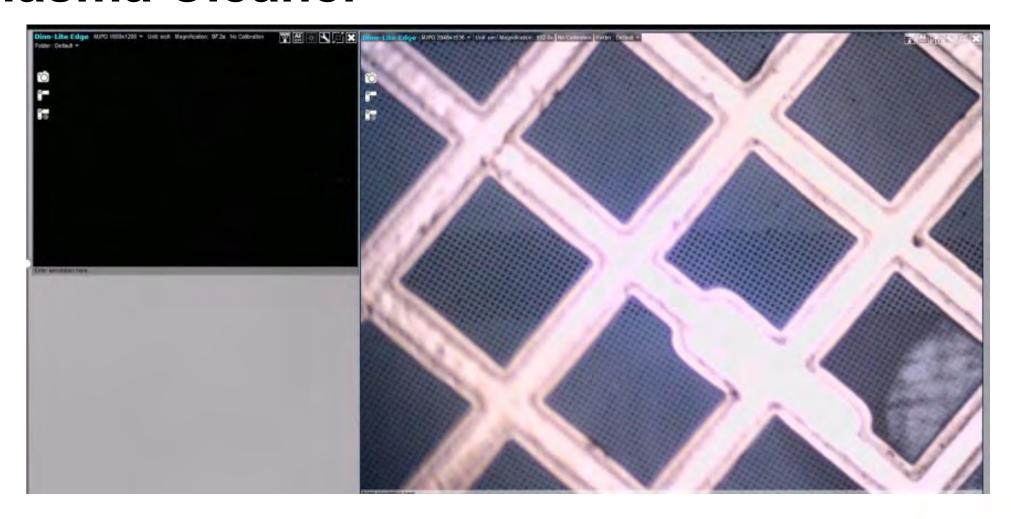
Glow Discharge



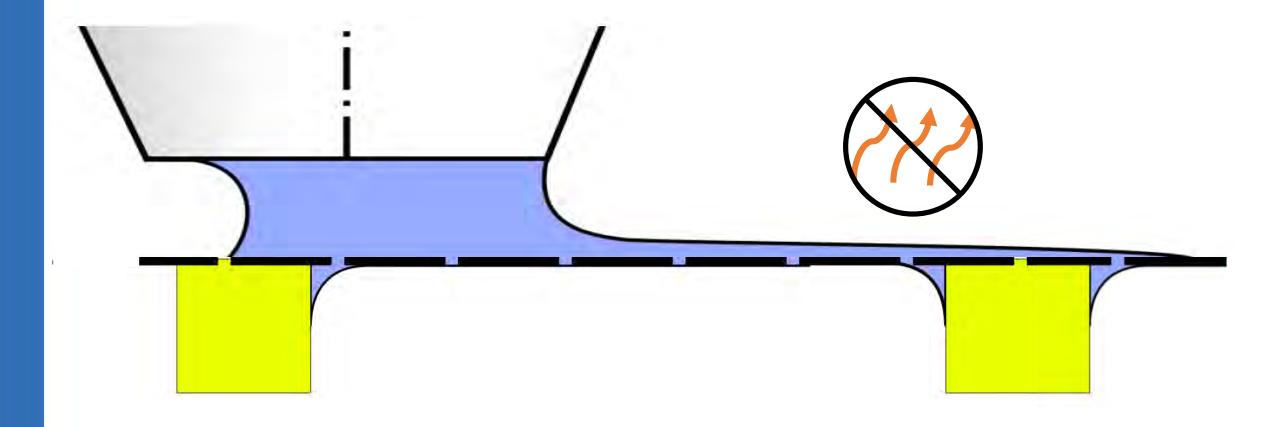




Plasma Cleaner

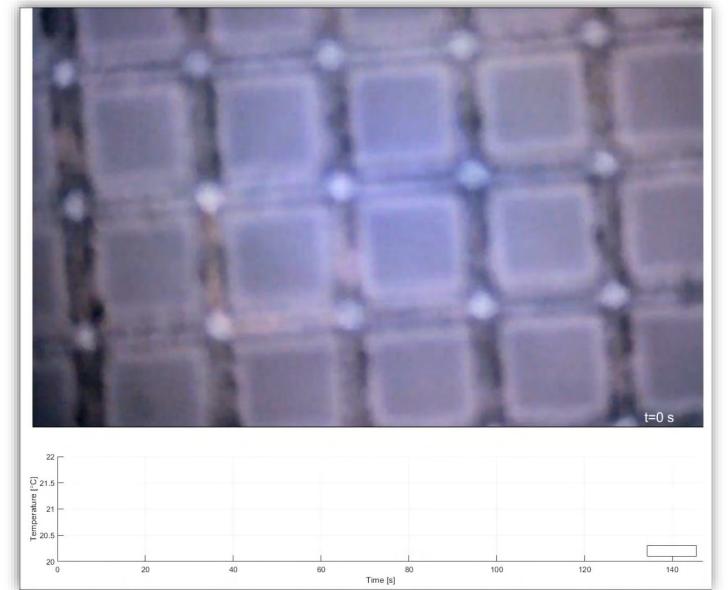






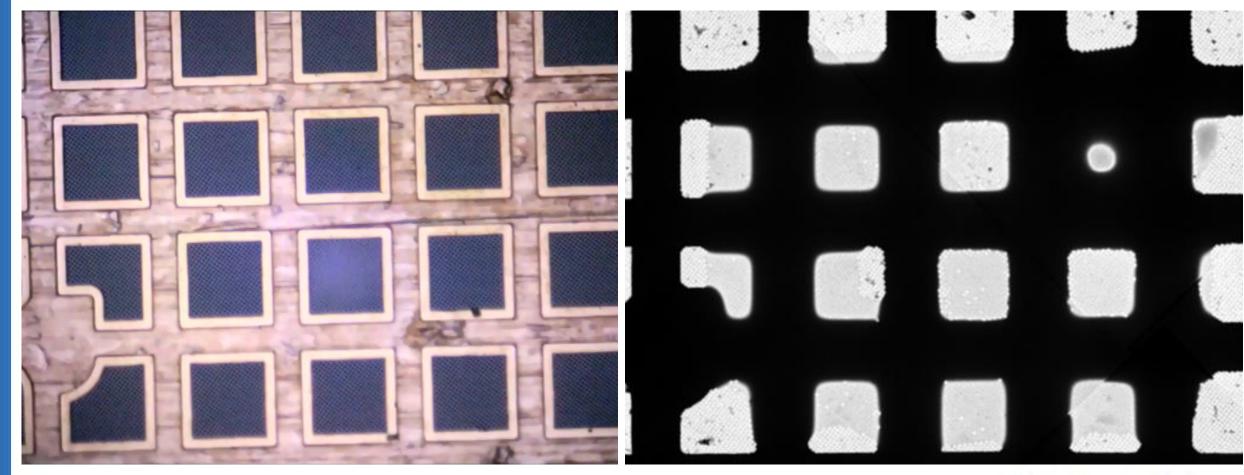


Dewpoint control



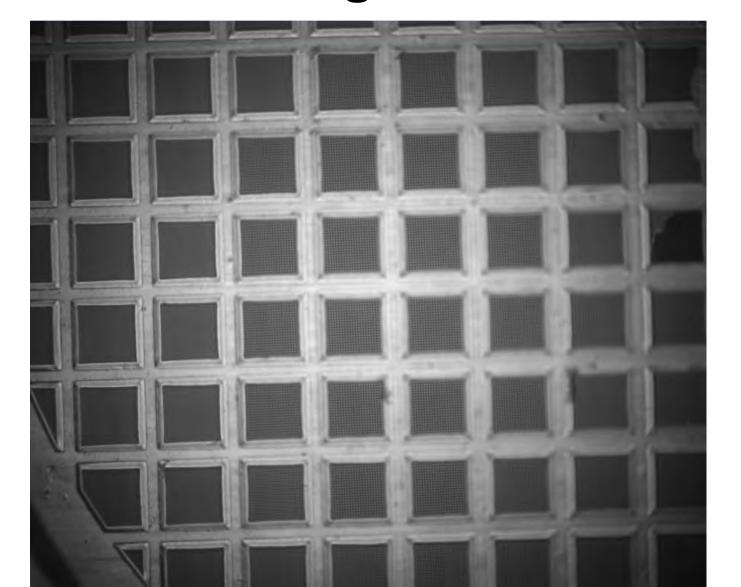


Visual Feedback





Autofocus and Larger Field of View



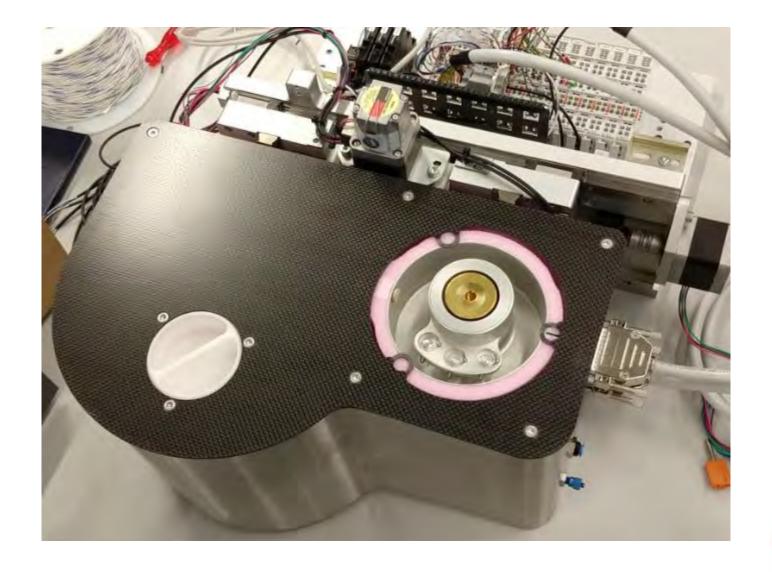


Jet Vitrification





Jet Vitrification





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