VitroJet

Bridging the Gap in Sample Prep

Giulia Weissenberger
Expectation
Reality
“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”
Reliability

Full Automation

Integrated Plasma Cleaning

Visual Quality Inspection

Jet Vitrification

Pin-Print Technology

High Reproducibility and Control
Reproducibility

Method based on: Rice et al. 2018
Examples
Proof of Principle (200kV)

- Wormhemoglobin 3.1 Å
- GroEL 2.9 Å
- Apoferritin 2.5 Å
- β-galactosidase 3.1 Å
Plasma Cleaning

- Gas molecules
- Gas molecules (excited)
- Ions
- Free electrons
- Molecule fragment (high-energetic)
Glow Discharge
Plasma Cleaner
Dewpoint control
Visual Feedback
Autofocus and Larger Field of View
Jet Vitrification

3mm
Jet Vitrification
Contact

CryoSol-World BV
Oxfordlaan 70
6229 EV Maastricht
The Netherlands

giulia.weissenberger@cryosol-world.com
+ 316 1858 6606
www.cryosol-world.com