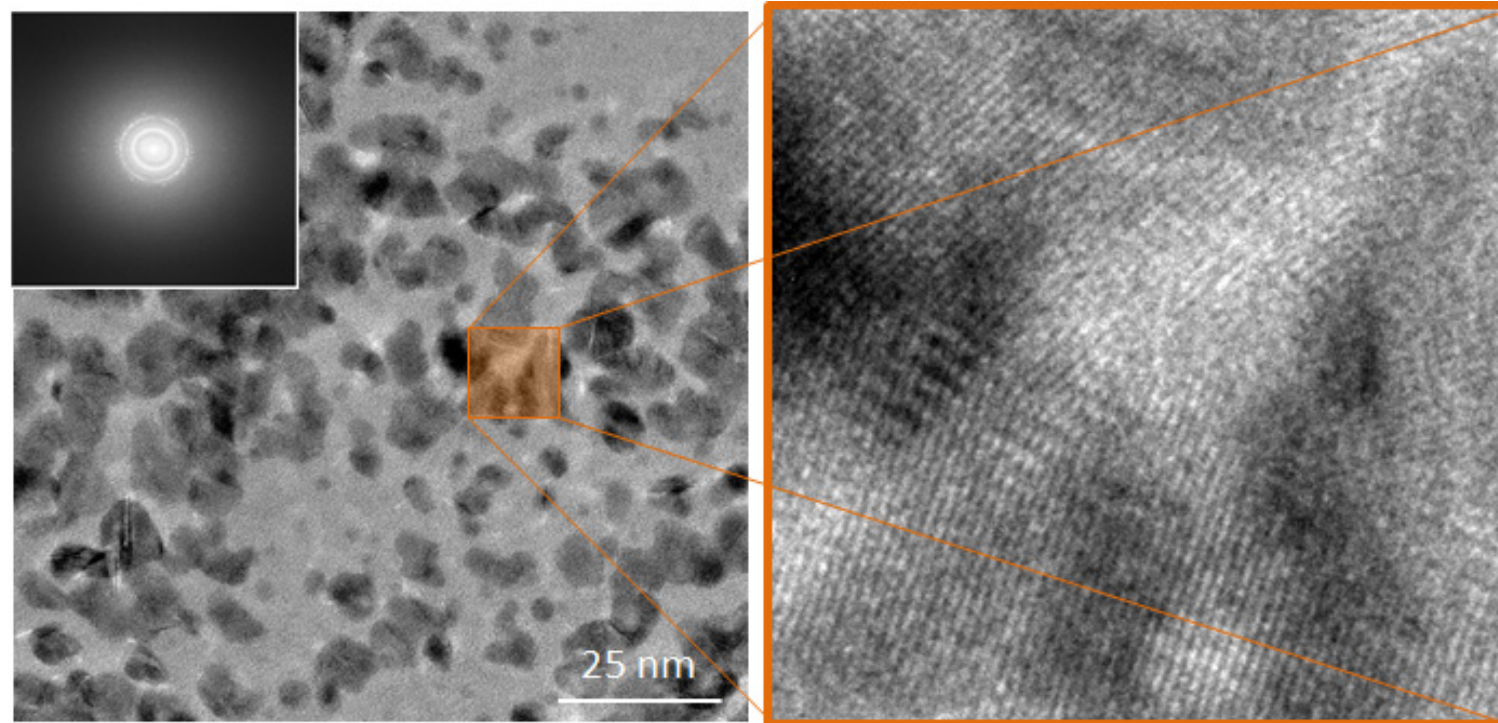
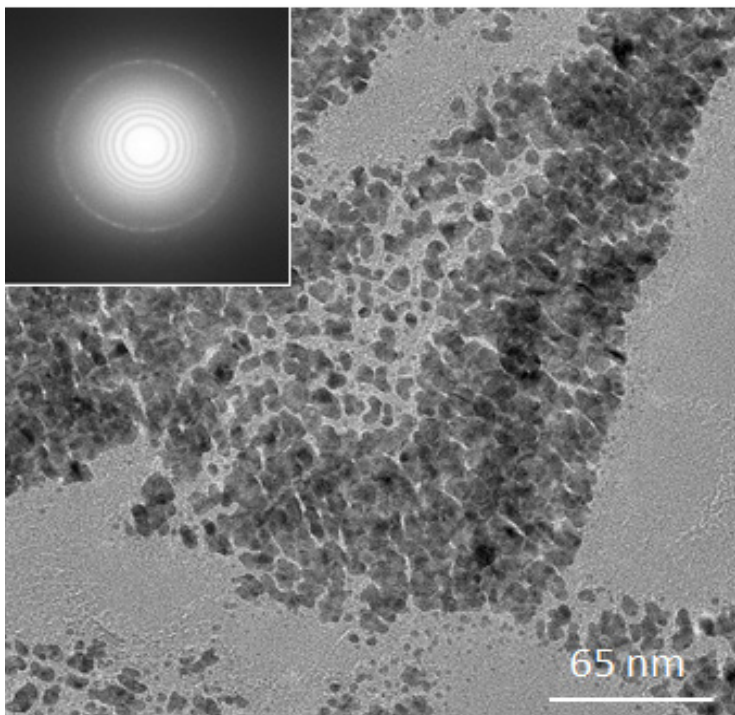


Images acquired using the Model 200, Dual AutoGrid Cryo Transfer Holder

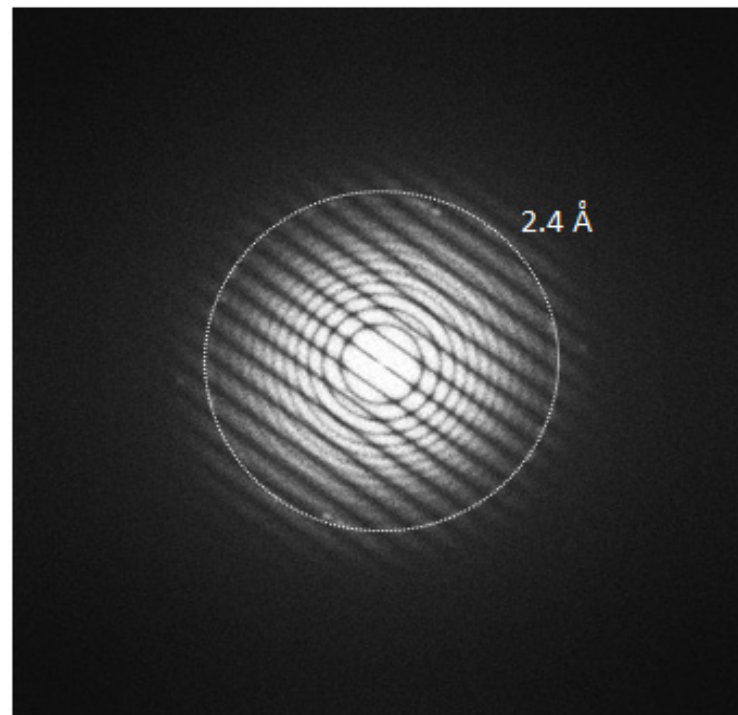
Courtesy: Dr. James Conway, University of Pittsburgh



TEM image and subarea of cross grating sample at -180°C showing 2.4 \AA and 2.0 \AA gold lattices. It was acquired at 200kV and 390kx nominal magnification with Thermo Fisher/FEI Tecnai F20 (TWIN-lens), equipped with TVIPS TemCam-XF416



TEM image of cross grating sample at -180°C showing 2.4 \AA gold lattice. It was acquired at 200kV and 150kx nominal magnification (0.0717 nm pixel-size on specimen level)



Young Fringes of cross grating sample acquired at -180°C . Fringes exceed in all directions 2.4 \AA

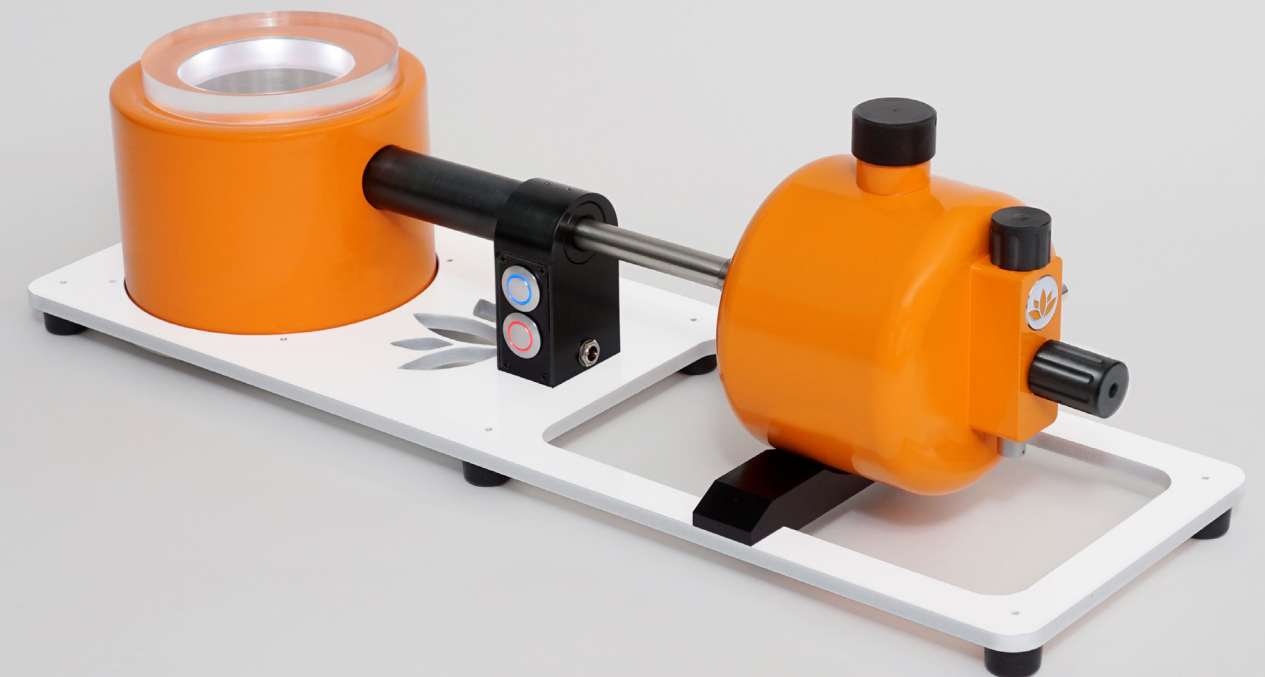
CRYO TRANSFER HOLDER

Model 200: DUAL AUTOGRID CRYO TRANSFER HOLDER; THERMOFISHER/FEI

Model 205: DUAL GRID CRYO TRANSFER HOLDER; THERMOFISHER/FEI

Model 210: DUAL AUTOGRID CRYO TRANSFER HOLDER; JEOL

Model 215: DUAL GRID CRYO TRANSFER HOLDER; JEOL



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KEY FEATURES

CRYO TRANSFER HOLDER

- Accepts two FEI/Thermo Fisher Autoloader grids (Model 200 & 210) or two standard 3mm TEM grids (Model 205 & 215)
 - Extended holding time of 10 hours without refilling
 - Steady state tip temperature <math>< -180^{\circ}\text{C}</math>
 - *Resolution better than 2.4 Å
 - *Drift Rate <math>< 2\text{ nm/min}</math>
 - Improved shielding capability during cryo transfer
 - Grid selection using a knob on the dewar
 - Optimized workflow including holder handling and sample loading
 - *Tip thickness of 1.5 mm allows for wide tilt range
 - Axisymmetric dewar design for high tilt stability
 - Available for FEI/Thermo Fisher and JEOL TEMs
- * Precise value depends on specific TEM

CRYO WORKSTATION

- Workstation layout designed for efficient grid transfer
- Internal LED light for better visibility
- Liquid nitrogen hold time of 30 min without refilling
- Built in heater for defrosting and warmup

TEMPERATURE CONTROLLER AND MONITOR

- Precise tip temperature monitoring
- Regeneration of zeolite within the holder dewar
- Warming up holder to room temperature
- Additional temperature monitor for convenient access near TEM



Cryo Transfer Holder

WORKSTATION



Model 200: Dual AutoGrid Cryo Transfer Holder
Temperature (C) Vs Time (Min)

