

Date: 15.02.2021  
 Bearbeiter: Harald Rösner  
 Work area: Transmission  
 Electron Microscopy  
 Workplace: Room E.05/07

# Safety Instruction

## Titan Themis G3

WWU  
 Münster Nanofabrication  
 Facility (MNF)  
 CeNTech II  
 Heisenbergstr. 11  
 48149 Münster

Range of Application		
Microscope Operation		
Hazard for People and the environment		
   	<ul style="list-style-type: none"> <li>• High voltage: Danger due to high tension.</li> <li>• Process gases: Mortal danger when inhaled. Suffocating in high concentrations.</li> <li>• Gas bottles: Explosion hazard.</li> <li>• Ionizing radiation: Full protection device. Info: Dr. H. Rösner</li> <li>• Solvent: Chemical burn hazard.</li> <li>• Cold liquid gas: Liquid nitrogen. Chokedamp. Burn hazard.</li> <li>• Risk of falling: ramp</li> </ul>	    <p>Danger Liquid nitrogen</p>
Safety Measures and Rules of Behavior		
	<ul style="list-style-type: none"> <li>• Operating the microscope is only allowed after previous instructions to the Titan Themis by Dr. Ostendorp and/or Dr. Rösner.</li> <li>• Wear protective equipment (safety goggles and gloves) when using liquid nitrogen.</li> </ul> <p>In case of any unclear issues contact the responsible person Dr. H. Rösner.</p>	
Action in Failure		
<ul style="list-style-type: none"> <li>• In case of any malfunction or abnormality contact Dr. Ostendorp and Dr Rösner.</li> </ul>		
Action in Accident, First Aid		
	<ul style="list-style-type: none"> <li>• After contact with the eye: wash out for 10 minutes with floating water and open lid slit, immediately consult an eye doctor. After inhalation: get fresh air, immediately consult a doctor.</li> <li>• Liquid nitrogen accident: Take off soaked clothes. In case of heavy burns contact emergency doctor.</li> <li>• Inform appointed first aider.</li> <li>• Immediately treat small injuries.</li> <li>• Enter data in the accident book.</li> <li>• In case of severe injuries call an emergency doctor (phone 112).</li> <li>• Inform your superior.</li> </ul>	
Maintenance and Disposal		
<ul style="list-style-type: none"> <li>• Maintenance work may only be carried out by qualified and instructed staff.</li> </ul>		