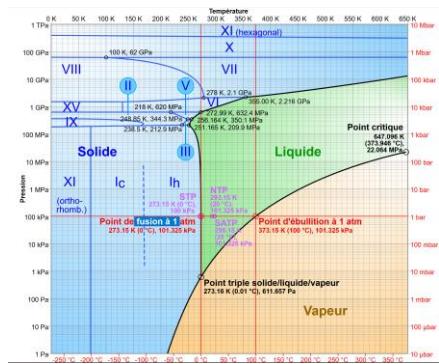
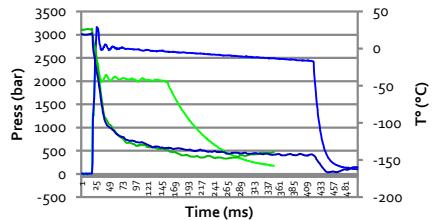


High Pressure Freezers with unique capabilities

Challenge HPF knowledge with variable pressure solutions and vitrify unexplored materials



Explore the influence of pressure rise, cooling rate, pressure plateau, pressure maintenance, through an advanced GUI

One system
Light microscopy and HPF



The robust hpm-010 evolution



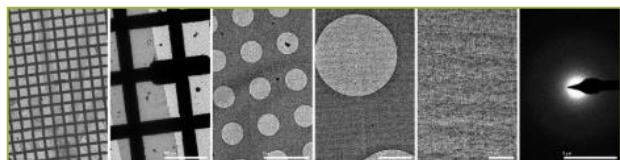
One handle, all samples

- Advanced GUI
- Individual sample tracking

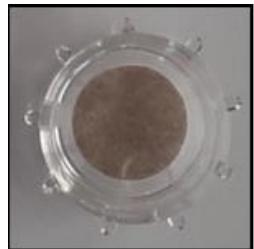
Parameter	Value	Criteria
Pressure while passing below	0 °C: 1566 bars	> 1500 bars
Cooling time	5 ms (- 10275 °K/s)	< 10 ms
Pressure Maintenance over	2100 bars - 276 ms	> 200 ms
Temperature retention time <	-100 °C: 434 ms	> 200 ms
Time between freezing order and freezing start	1644 ms	
Sample time transfer before storage in liquid nitrogen	1009 ms	



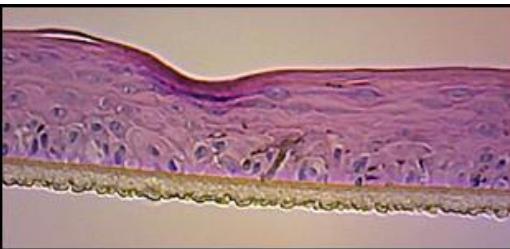
Some examples



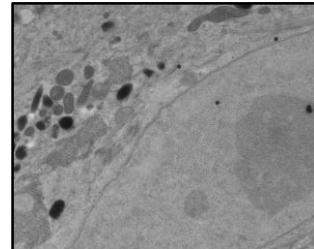
Human
epidermal
model



Phototype VI



Histology staining



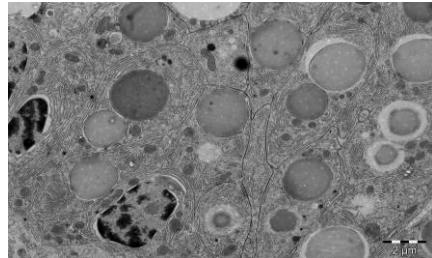
HPF - FS



Ommo-chromosome Life
Cycle study



F. Figon, T. Insausti, J. Casas
IRBI, UMR CNRS 7261

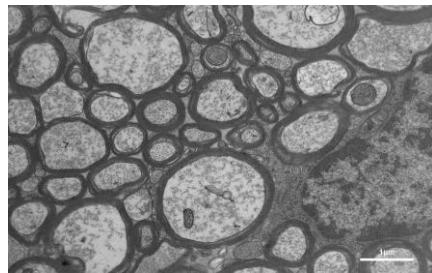


Investigation of the ultrastructure of myelin in mice

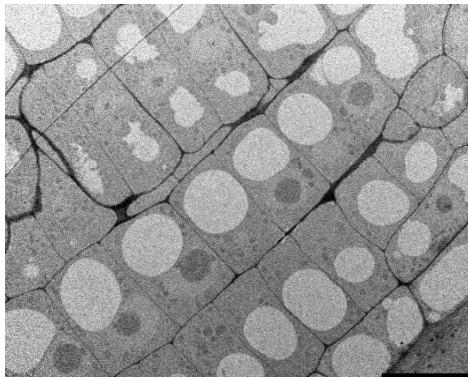


Institute of
Psychiatry and
Neuroscience
of Paris •

R. Rajani, A. Joutel
IPNP, INSERM U1161



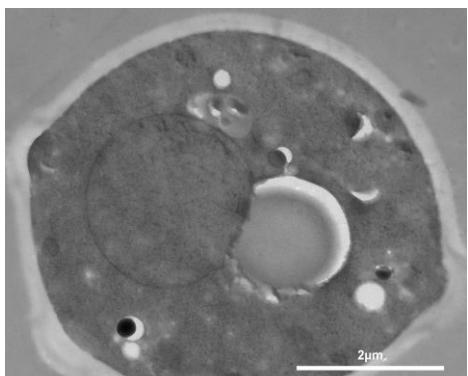
A. Thaliana



C. elegans



S. cerevisiae



Oocytes

