

HALRIC Research Infrastructures in Pilot Projects

HALRIC pilot project	Country	RI used	Platform	Methods used	Specific method used
Spatial proteomic profiling of cardiovascular tissues	Denmark	CFIM		Laser capture microdissection	
	Denmark	Protein Oxidation Laboratory		MS	TimsTOF
	Sweden	Swedish biobank of human carotid artery atherosclerotic plaques (CPIP)		biobank	
	Sweden	BioMS		MS	TimsTOF
Decipher protease zymogen activation to enable stroke therapy (Zymogen activation)	Denmark	EMBION		Cryo-EM	
Proof-of-concept study of the conformational ensemble of intrinsically disordered proteins – combining molecular dynamics simulations, FEL-SAS/SPI and	Sweden	LUNARC		computing resources	
	Sweden Germany	MAX IV EuXFEL	CoSAXS	SAS SAS	SAXS FEL-SAS/SPI
Bring non-invasive structural and metabolic modalities together to advance cellular infection models in the search	Denmark	NMR Center		NMR	Hyperpolarized NMR spectroscopy
	Germany	CSSB		light microscopy	
Sugar-Decorated Poly(propylene imine) Dendrimers: Unraveling Molecular Structures for Anti-Amyloid Drug Development	Sweden	MAX IV	CoSAXS	SAS	SAXS
	Sweden	Medical Microspectroscopy Lab		infrared spectroscopy	
	Sweden	Lund Bioimaging center (LBIC)		TEM	
	Sweden	CIPA		image processing expertise	
	Denmark	Astrid2	AU-CD	Circular Dichroism (SD beamline)	
	Denmark			SAS	SAXS
Targeting aquaporins as breast cancer therapeutics	Denmark			in vitro model	breast cancer
	Denmark	EMBION		Cryo-EM	

Uncovering the Structural Basis for Allosteric Inhibition-state Trapping of Glycine Transporters using sybodies	Germany	CSSB		Cryo-EM	
	Germany	SPC		Biophysical characterization	
Feasibility of Micro-Computed Tomography Imaging for Assessment of Surgical Resection Margins and Microscopic Lymphatic Metastasis During Cancer	Denmark			3D ultrasound	
	Denmark Sweden	MAX IV	DanMAX	CT CT	microCT synchrotron microCT
Exploring the potential of X-ray tomographic microscopy in the identification of inducible bronchus-associated lymphoid tissue and airway remodeling in severe autoimmune asthma	Sweden			immunohistochemistry	
	Denmark	DANFIX		CT	microCT
Investigating Amyloid Fibril-Protein Interactions and Their Impact on Neuroinflammation	Sweden	BioMS		MS	LC-MS/MS
	Denmark Denmark	Zebrafish facility Bispebjerg BrainBank		biobank	
Probing Pea Protein Digestion Dynamics: A Multiscale Exploration addressing allergenicity potentials	Germany	EMBL	P12	SAS	SEC-SAXS
	Sweden	MAX IV	CoSAXS	SAS	SAXS
	Sweden	MAX IV	CoSAXS	SAS	USAXS
	Sweden	MAX IV	CoSAXS	SAS	WAXS
Solution scattering techniques for dissecting the molecular function of CIC-1	Germany	EMBL	P12	SAS	SAXS
		MAX IV ILL	CoSAXS	SAS SAS	SAXS SANS
Exploring Structural and Biological Characteristics of Coexisting Particle Populations in Lipid Nanoparticles for mRNA Delivery	Sweden			AF4	
	Sweden	MAX IV	CoSAXS	SAS	AF4-SAXS