

<b>Name</b> Participants of WG3	<b>Helena L.A. Vieira</b>
Affiliation	UCIBIO Applied Molecular Biosciences Unit, NOVA School of Science and Technology, <i>Universidade Nova de Lisboa</i>
Scientific expertise, up to 5 key words	Heme-oxygenase/carbon monoxide; ROS/GSH signaling; mitochondria; cell metabolism; neurobiology
Motivation for participation in WG3	Interested in the identification of circulating human biomarkers related to response to ischemia/reperfusion and oxidative stress
Short narrative biosketch, including scientific background/ education/major achievements etc.	With a Chemical Engineering background ( <i>Instituto Superior Técnico, Universidade de Lisboa, 1997</i> ), I did her PhD thesis in the field of Cell Death and Oncobiology at CNRS, France (2002), publishing in <i>Science</i> , <i>Oncogene</i> , <i>J Exp Med</i> . To broaden my expertise, I did 3 postdocs in distinct areas: Microbiology (2003), Biotechnology (2004-2006) and Neurobiology (2007-2011). Since 2012, I have been principal investigator at CEDOC, Nova Medical School, UNL. My team is well established in the Carbon monoxide (CO) Scientific Community through studies about the role of CO on: cell death, cell metabolism, mitochondrial function, ROS signalling and preconditioning, neuronal differentiation and neuroinflammation, with publications in <i>Redox Biology</i> , <i>Progress in Neurobiology</i> , <i>J Cell Science</i> , <i>Mol Neurobiology</i> , <i>J Neurochemistry</i> , <i>J Biological Chemistry</i> , <i>Autophagy</i> , <i>J Physiology</i> , <i>British J Pharmacology</i> . Since 2016 we have been collaborating with neurologists for the identification of novel biomarkers in stroke. In 2019, Helena became Assistant Professor at UCIBIO, NOVA School of Science and Technology, <i>Universidade Nova de Lisboa</i> .
Current research topics/ongoing projects	<ul style="list-style-type: none"> <li>- Molecular mechanisms of remote ischemic conditioning in ischemic stroke</li> <li>- Identification of novel biomarkers for differential diagnosis of stroke: ischemic and haemorrhagic</li> <li>- ROS signalling modulation of mitophagy: role of glutathione</li> <li>- Carbon monoxide control of microglial phagocytosis: clearance of dead neurons during neuroinflammatory response to stress</li> </ul>
Nfr2-related methodologies/ infrastructure/ equipment	Downstream: regulation of heme oxygenase expression and its product generation CO ROS signalling for upstream control of Nfr2
Available sample collections/datasets; interested in sharing; yes/no	none

Available cohorts/ ongoing/planned human studies/grant applications	Plasma samples from stroke patients – not public Need of ethical acceptance for other uses
Interested in STSM: outgoing/hosting (year 1/later); yes/no	Year 1 yes interested in outgoing