

Name Participants of WG3	Roberta Foresti
Affiliation	Faculty of Health, University Paris Est Créteil Mondor Biomedical Research Institute (IMRB)-INSERM 955 France E-mail: roberta.foresti@inserm.fr
Scientific expertise, up to 5 key words	Heme oxygenase-1, carbon monoxide, oxidative stress, Nrf2, drug discovery
Motivation for participation in WG3	I am interested in all aspects of applying Nrf2/heme oxygenase-1-based technologies for future therapeutic applications
Short narrative biosketch, including scientific background/ education/major achievements etc.	I am Professor of Biochemistry at the Faculty of Health (former Faculty of Medicine) at the University Paris Est Créteil (UPEC) and I teach different subjects to bachelor and master students. I am also affiliated to the Mondor Biomedical Research Institute (IMRB) which was jointly founded by UPEC and Inserm and where our laboratory is based. I dedicated more than two decades to research investigating the protective action of the heme oxygenase-1 (HO-1) pathway in the cardiovascular system and inflammation, additionally focusing on drug discovery approaches targeting HO-1. We contributed to demonstrate an important role for the HO-1-derived products bilirubin and carbon monoxide (CO) in the protection of cardiovascular function during stress. I am a graduate of the University of Milan and King's College London. I am responsible of International Relations at IMRB, organizing a series of activities for the international recognition of our institute, including a summer school on environmental insults and health/chronic disease.
Current research topics/ongoing projects	Our group is currently working on two main aspects: 1) the design and pharmacological characterization of molecules that target the Nrf2-HO-1 axis in collaboration with chemists. Examples are HYCOs (hybrids of an Nrf2 activator+CO-releasing molecule) and CO-releasing molecules; 2) studying the role of CO/Nrf2 in inflammation and high fat diet-induced obesity
Nrf2-related methodologies/ infrastructure/ equipment	We have Nrf2 KO mice, we are inventors of HYCOs, molecules that target Nrf2 and HO-1.
Available sample collections/datasets; interested in sharing; yes/no	We can share some of our compounds for collaborative projects, although this depends on the project and the quantity required
Available cohorts/ ongoing/planned human studies/grant applications	We are happy to consider grant applications for collaborative projects with members of this COST action
Interested in STSM: outgoing/hosting	Yes. Our laboratory has hosted over the years several foreign collaborators and students, including from previous Cost actions.

(year 1/late); yes/no	
--------------------------	--