Name Participants of WG3	**Maria J. Sanchez Quintero**
Affiliation	Biomedical Research Institute of Malaga (**IBIMA**) Spanish biomedical research network for cardiovascular diseases (**CIBERCV**)
Scientific expertise, up to 5 key words	Mitochondria, cardiovascular diseases, Pulmonary Hypertension, *in vitro* models.
Motivation for participation in WG3	Nrf2 is crucial to control the production of reactive oxygen species by mitochondria, and it has an important role under conditions of stress. For this reason, I find very interesting to include Nrf2 studies to my current research line regarding cardiovascular diseases where mitochondria are particularly affected. Participating in WG3 will bring me the opportunity to learn as well as to find new collaborators to develop this new approach in my research group.
Short narrative biosketch, including scientific background/ education/major achievements etc.	I obtained my PhD in 2013 from University of Málaga. I focused my project in **the role of TLR on human dendritic cells in allergy to amoxicillin**, contributing to the development of an *in vitro* test to predict a possible allergic response to amoxicillin. After obtaining my PhD, I decided to move to United States to develop my scientific career as a young postdoctoral researcher. First, I joined John A. Burns School of Medicine at University of Hawai´i, in Honolulu, where my research was focused on the **immunology of malaria**. After this period, I joined Dr. Michio Hirano´s group at Columbia University in New York. There, I focused my research on the physiology and pathology of **mitochondrial disorders of rare cardiopathies**. For this purpose, I used human cell lines (fibroblasts, HeLa cell, iPSC) as well as mouse models that replicate human diseases This long and very productive period sprouted into several high impact research articles in collaboration as mitochondrial expert, one recent article as first author, and other article that is currently in preparation (https://pubmed.ncbi.nlm.nih.gov/?term=sanchez-quintero%2C+mj). Besides, I was granted with several travel awards to present my results at international meetings, being also recognized with a poster award.
Current research topics/ongoing projects	I am starting my own research line focusing in the role of **mitochondria metabolism** in cardiovascular diseases, specifically in **Pulmonary hypertension**, a rare disease of the lung vasculature that leads to death.
Nfr2-related methodologies/ infrastructure/ equipment	None
Available sample collections/datasets; interested in sharing; yes/no	None
Available cohorts/ ongoing/planned human studies/grant applications	-Samples from patients suffering from cardiovascular diseases are available to share with other groups. -Currently, collecting samples from Pulmonary Hypertension patients. -Interested on European grants applications.
Interested in STSM: outgoing/hosting (year 1/later); yes/no	Later