



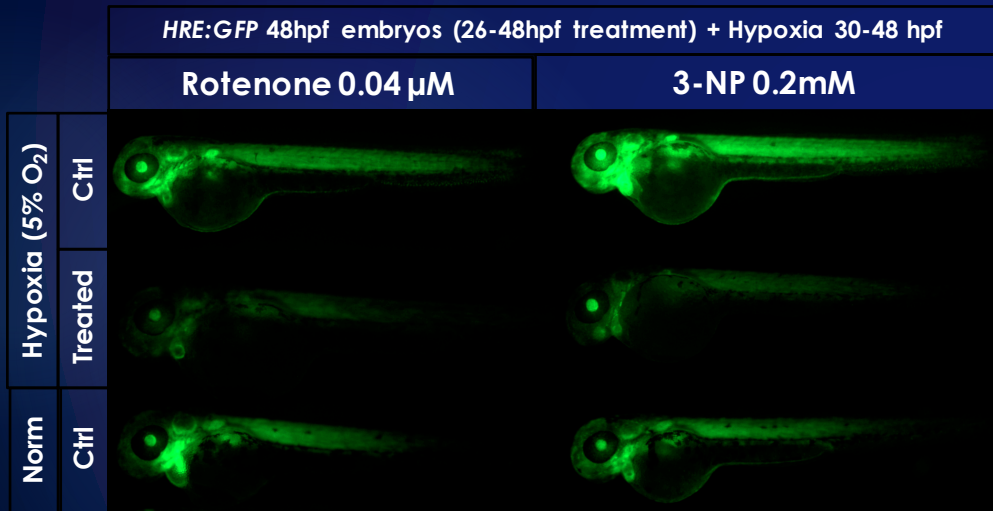
MITOCHONDRIAL DNA DEPLETION AND OXPHOS COMPLEX IMPAIRMENT MODIFY HYPOXIA SIGNALING PATHWAY ACTIVITY IN ZEBRAFISH



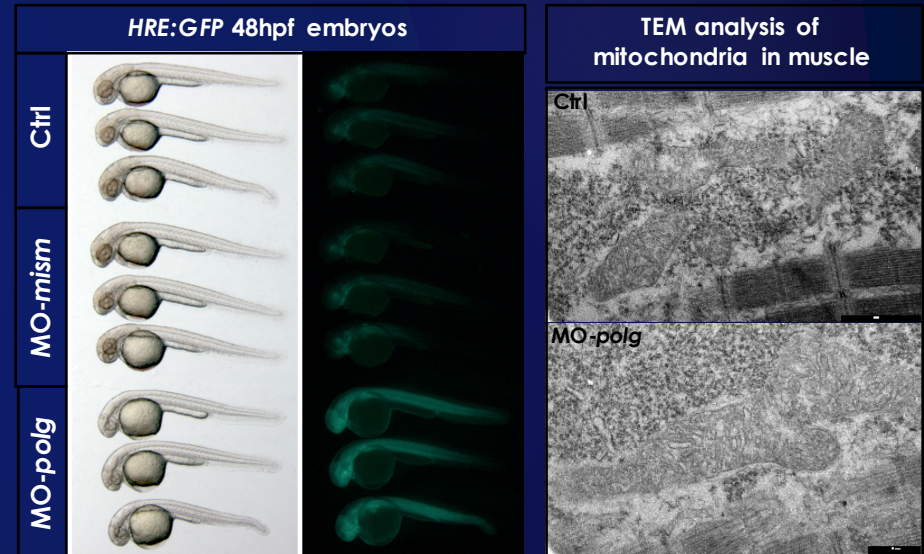
Laura Martorano¹, Natascia Tiso¹, Giorgia Busolin¹, Olivier Ek¹, Nicola Facchinello¹, Francesco Vanzi², Andrea Vettori¹, Francesco Argenton¹
¹Department of Biology, University of Padova, (Italy); ²Department of Biology, University of Florence, (Italy)

laura.martorano@studenti.unipd.it

Do mitochondrial OXPHOS complexes play a role in HIF1 α -mediated hypoxia pathway?



Does mitochondrial DNA depletion have an effect on HIF1 α -mediated hypoxia pathway?



Our evidences of Hypoxia reporter response in *polg* morphants and in embryos treated with OXPHOS complexes inhibitors suggest the existence of cross-talk mechanisms sensing mitochondrial dysfunction and acting on Hypoxia signaling.