

Effects of perinatal hypoxia on oxidative stress-related gene expression in the murine cerebellum.

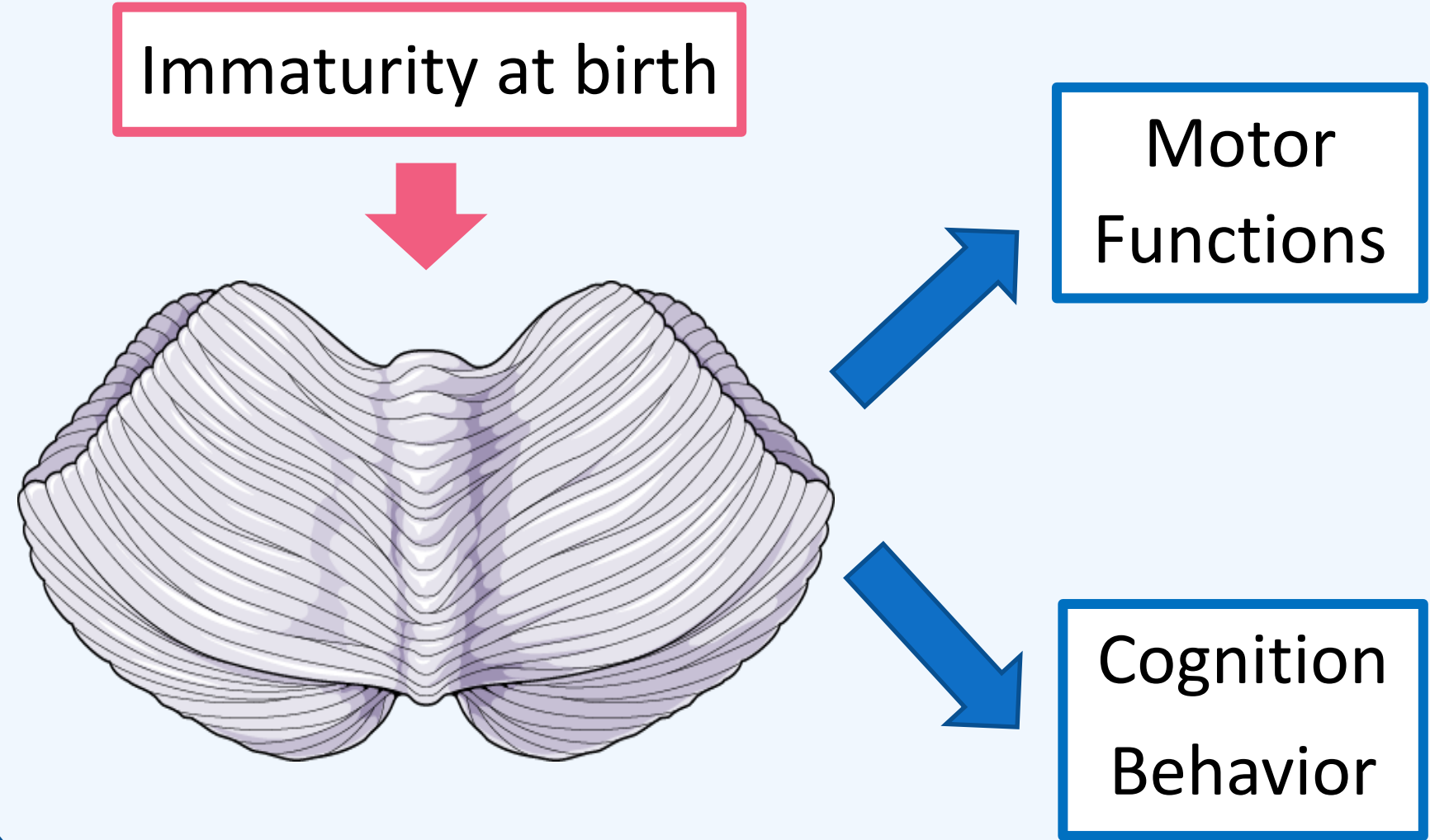
Rodriguez-Duboc A.¹, Basille-Dugay M.¹, Leroux S.¹, Vaudry D.^{1,2}, Burel D.¹.

¹ Normandie Univ, UNIROUEN, Institut National de la Santé et de la Recherche Médicale (INSERM) U1239, Laboratory of Neuronal and Neuroendocrine Communication and Differentiation (DC2N), Neuronal death and Cell plasticity Team, Institute for Research and Innovation in Biomedicine (IRIB), 76000 Rouen, France.

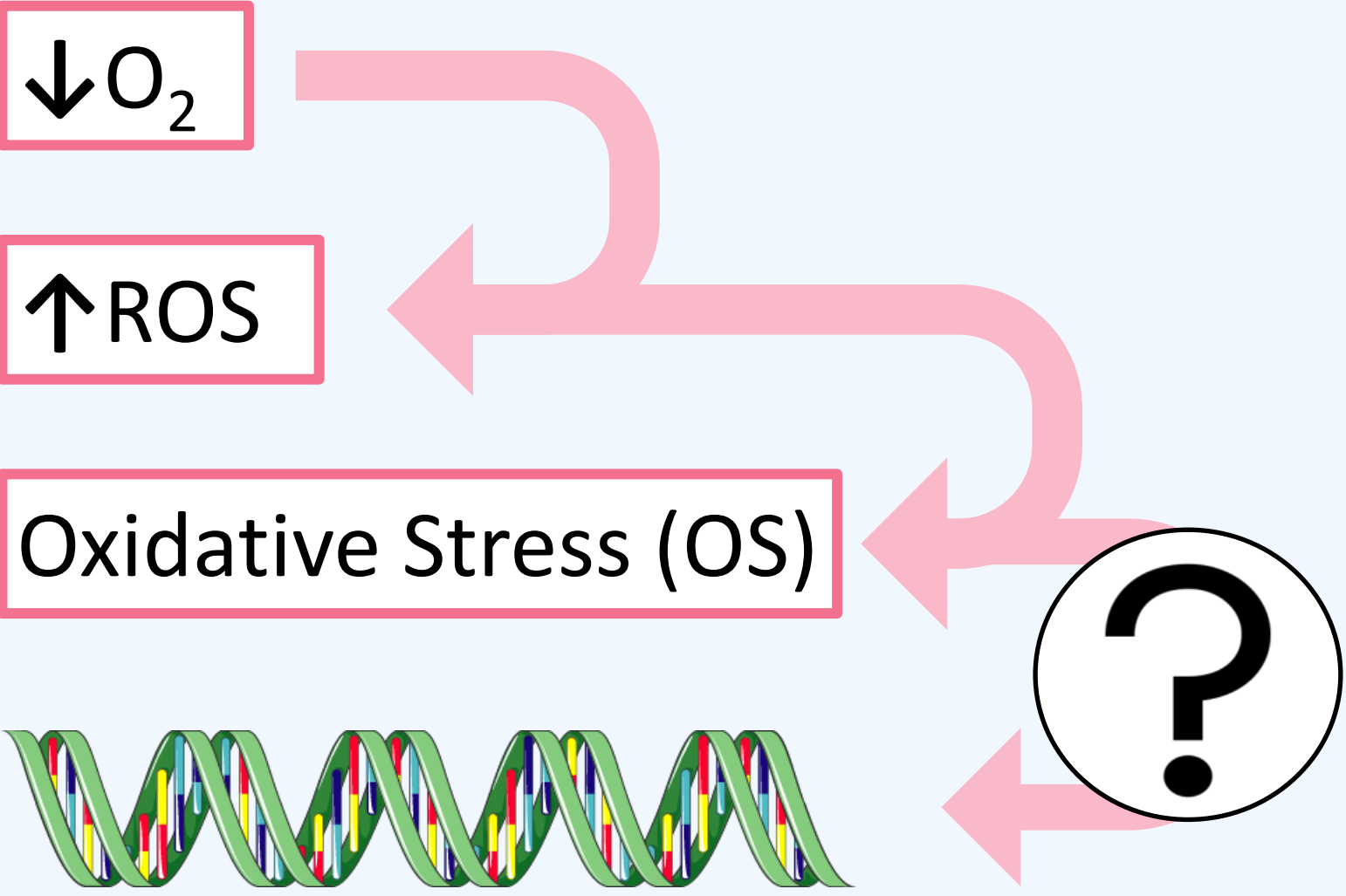
² Normandie Univ, UNIROUEN, Regional Cell Imaging Platform of Normandy (PRIMACEN), 76000 Rouen, France.

➤ Introduction: The functional importance of cerebellar hypoxic injury is underestimated

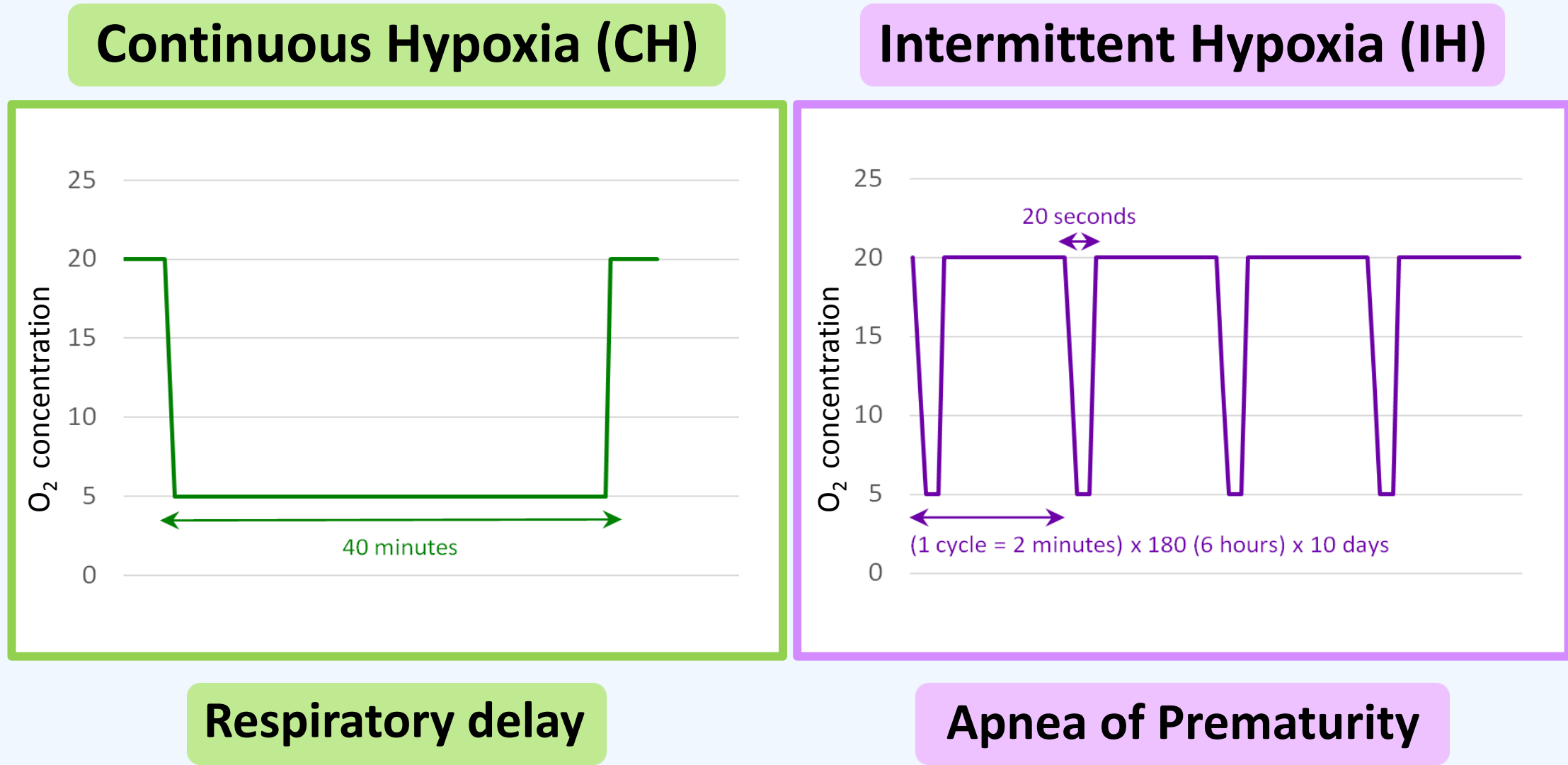
Background



Objectives

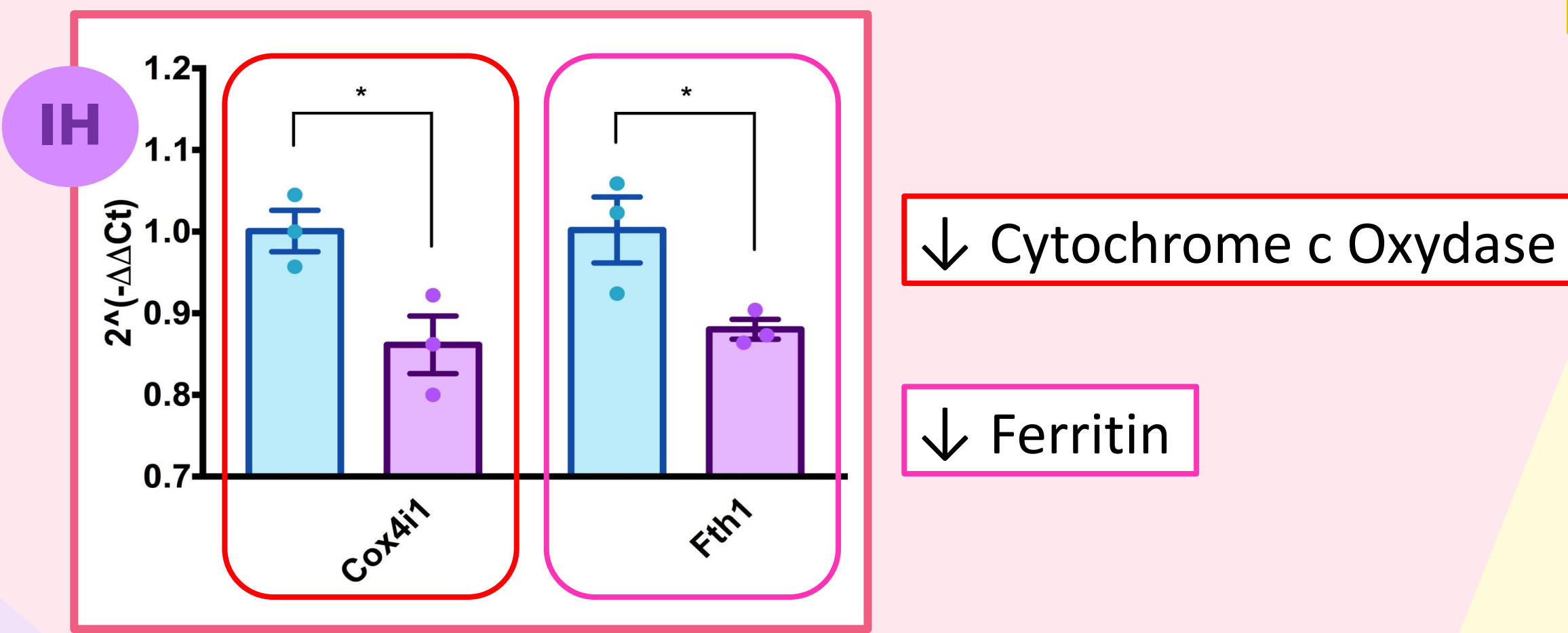


Methods

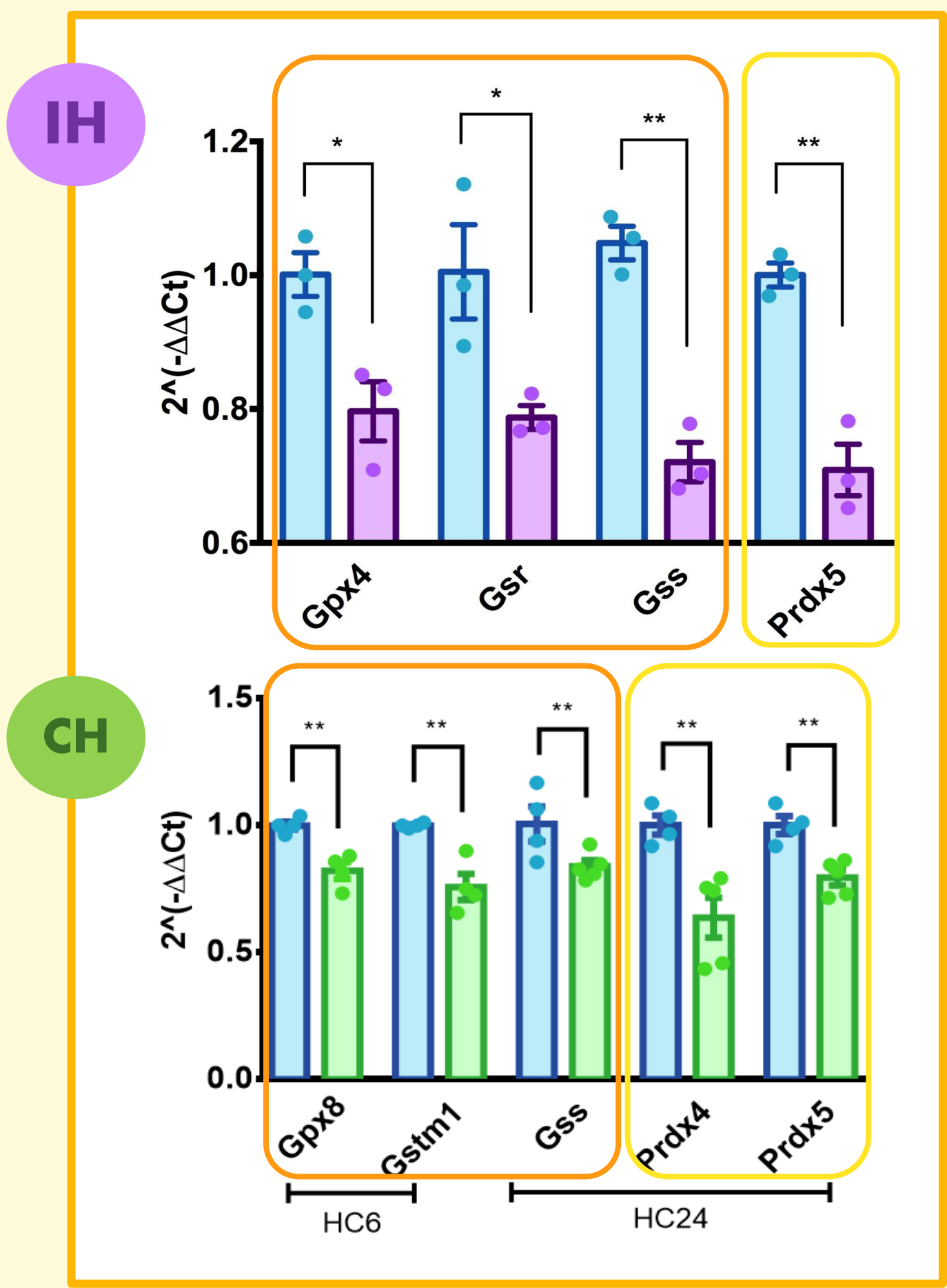


➤ Results: Real Time PCR shows that IH induces greater changes in gene expression than CH

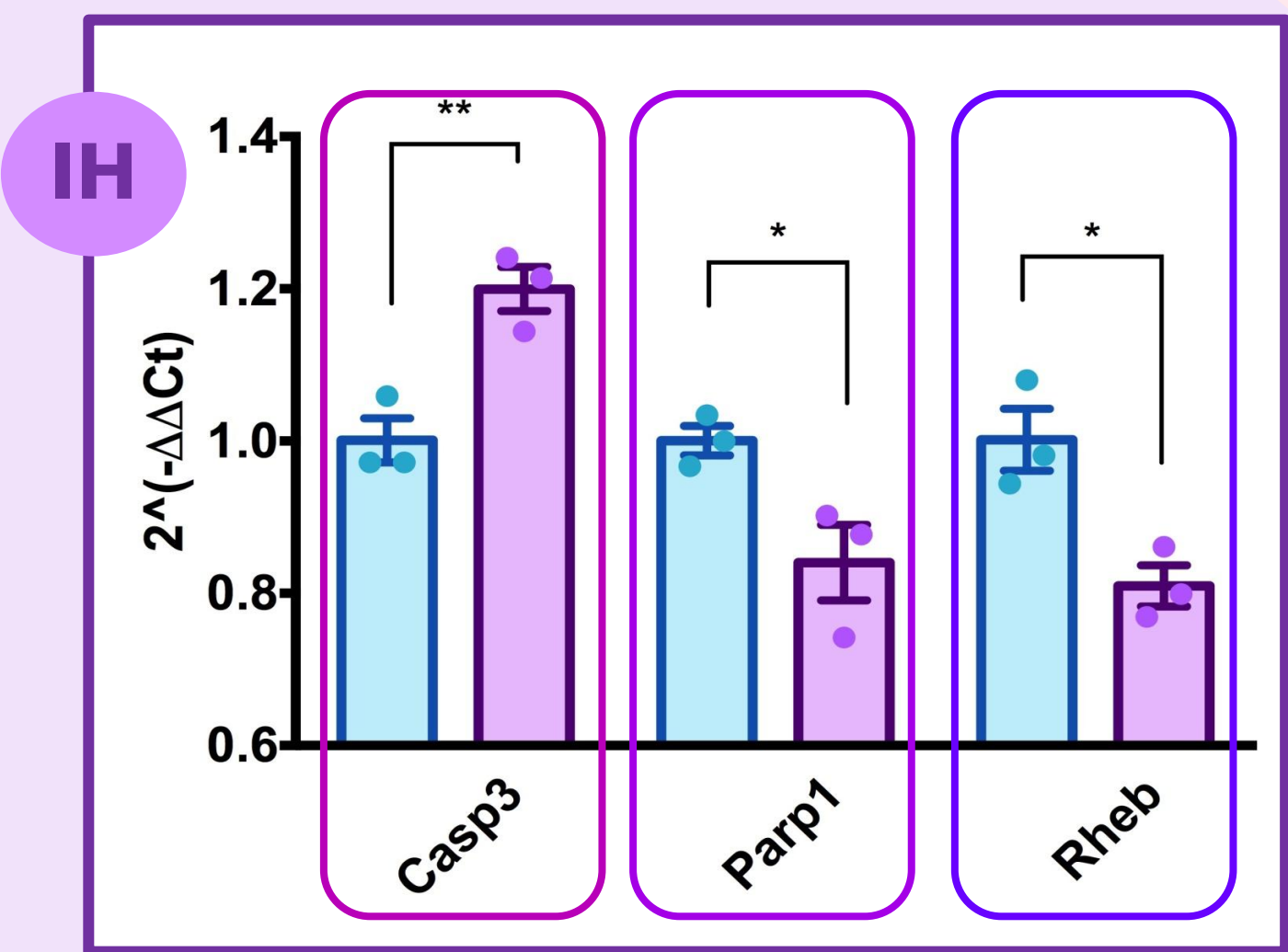
1 ROS accumulation : ↑ production



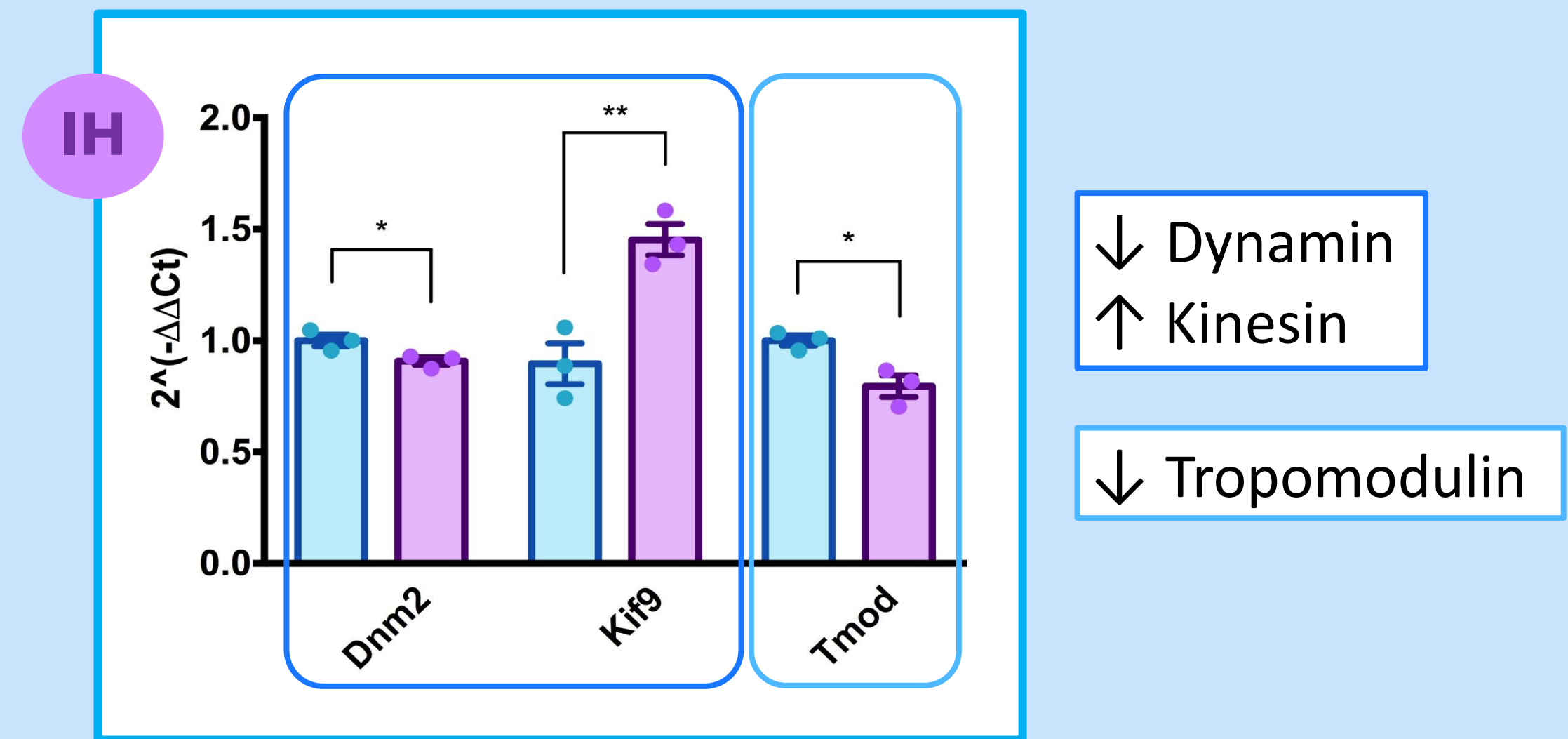
2 ROS accumulation : ↓ neutralization



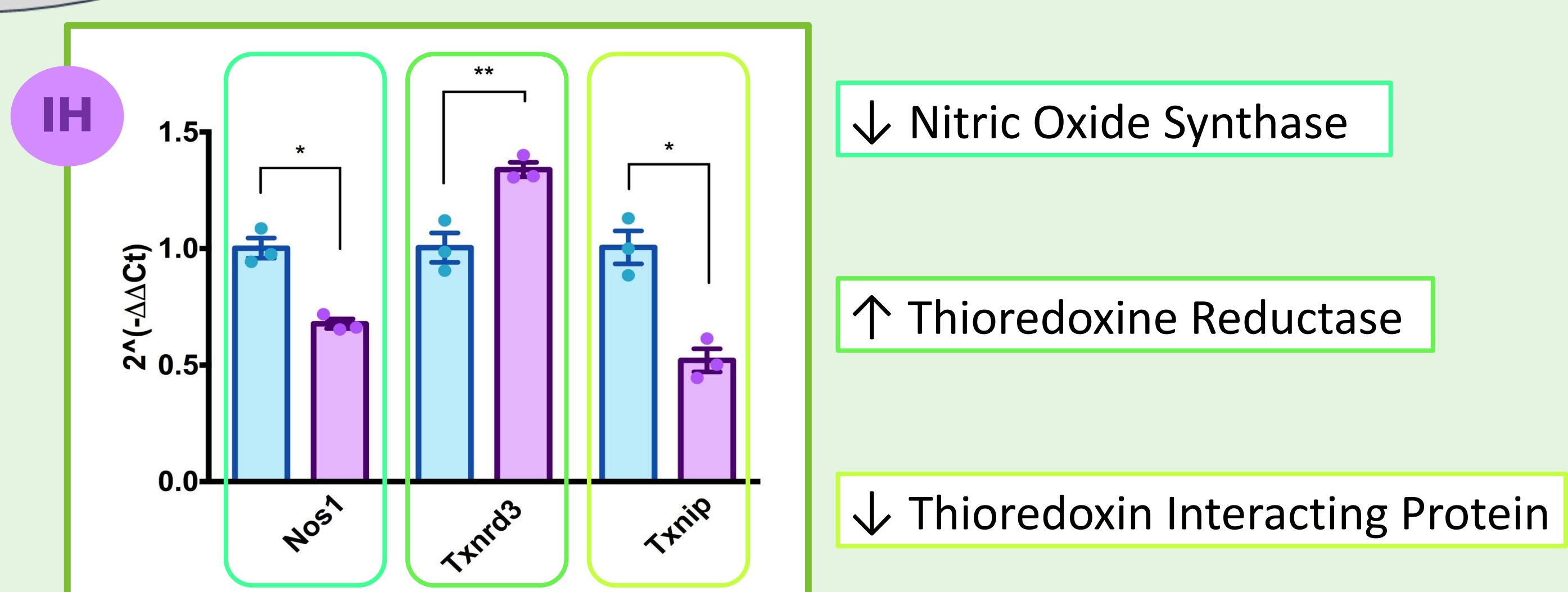
5 Cell death



4 Effects on the cytoskeleton



3 Response : ↑ Defense system



➤ Conclusions and Perspectives: Clinical standpoint

