

# De rol van ijzer in het hart

## Wat is het belang ervan?

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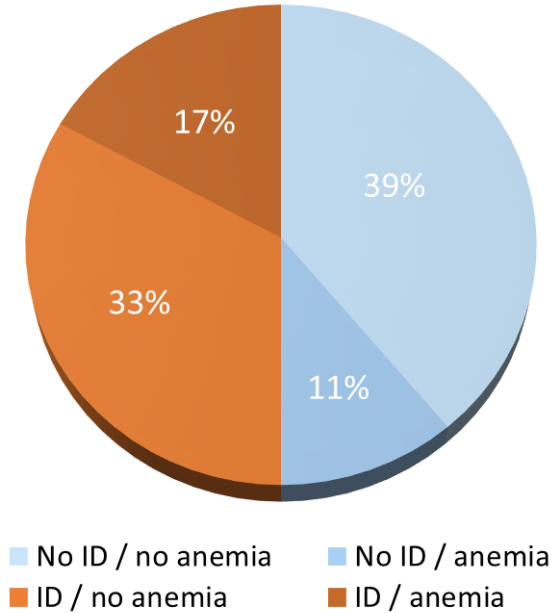
Assistant Professor

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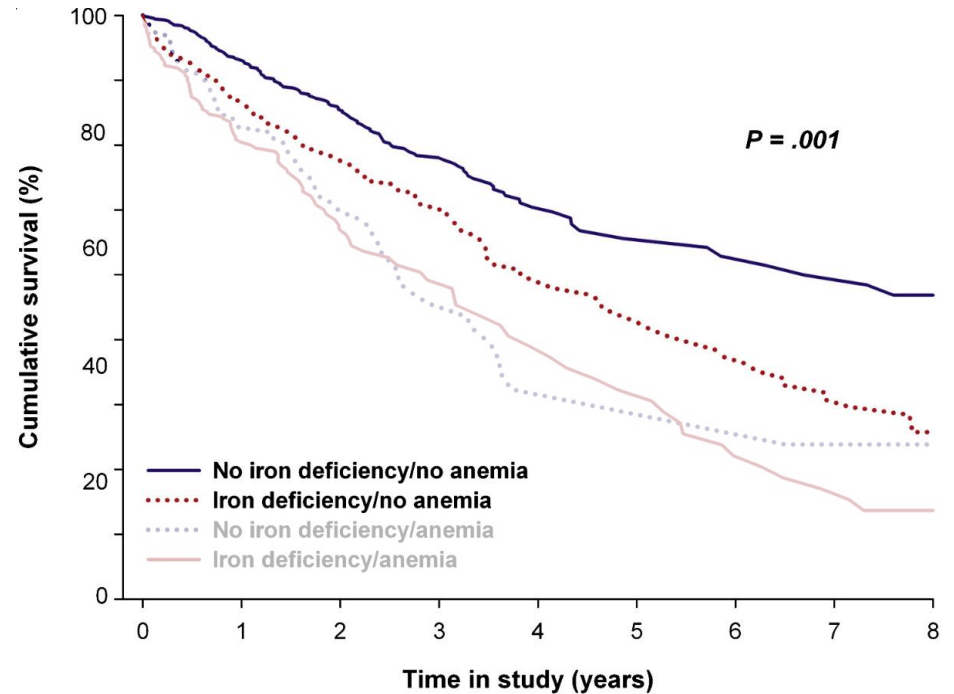


# Cardiaal ijzerdeficiëntie is onafhankelijk van anemie

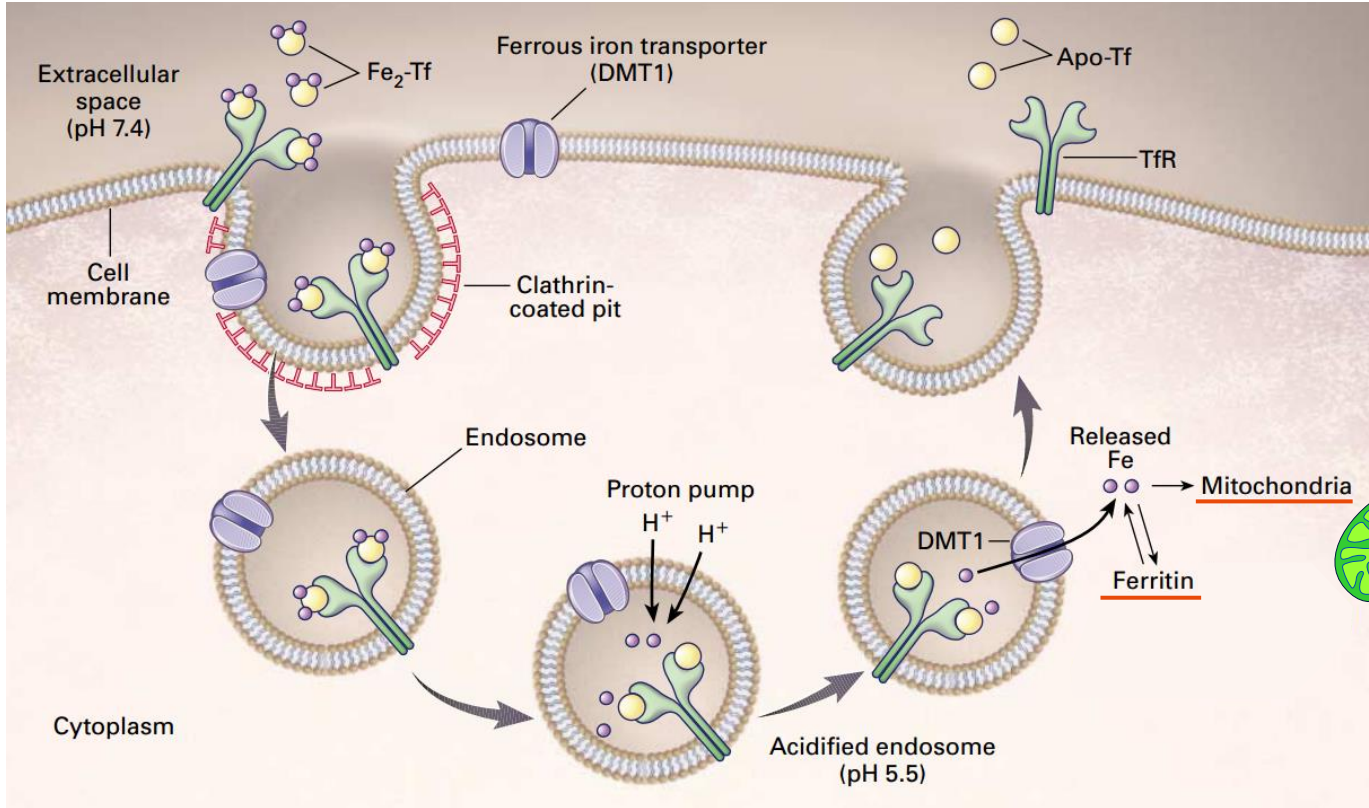
## Iron status and Heart Failure



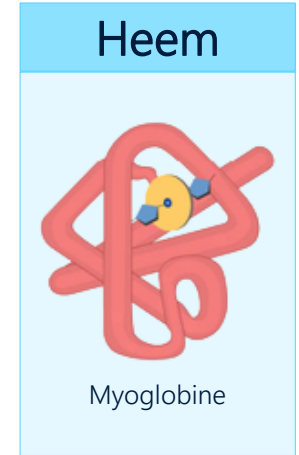
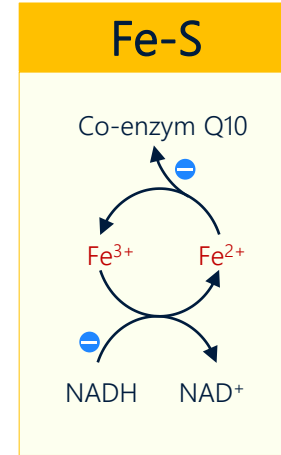
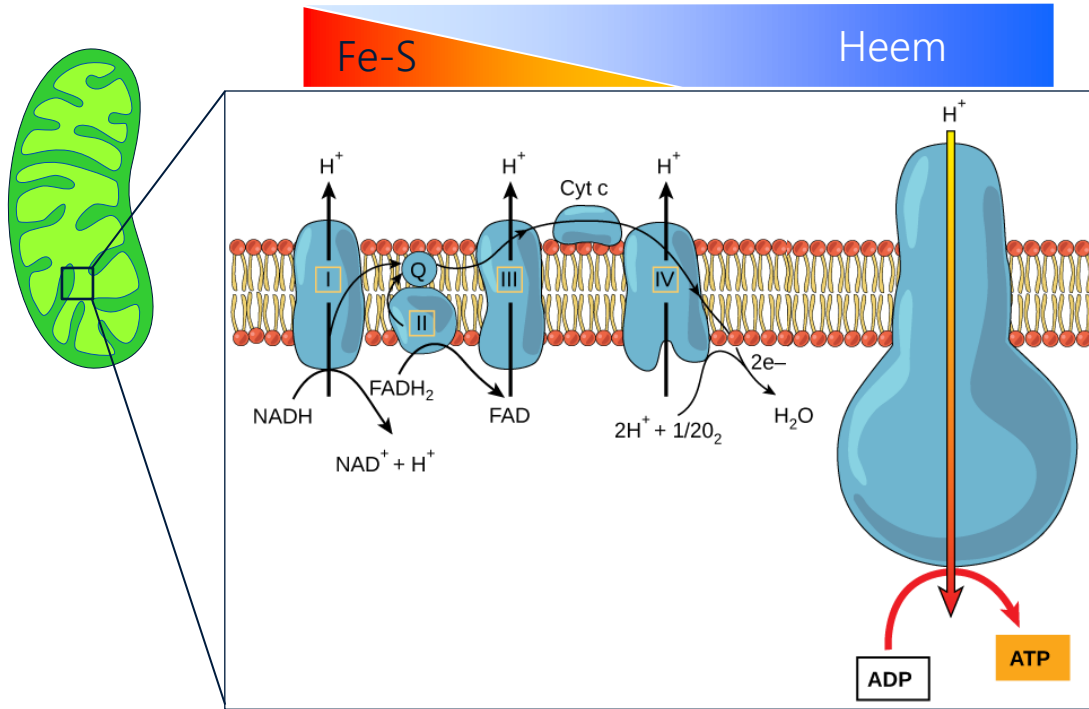
## Event-free survival



# IJzeropname in cellen



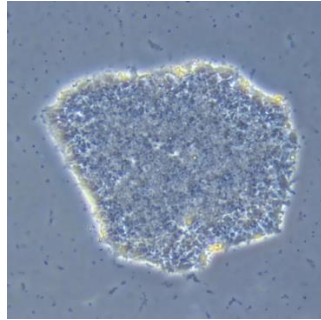
# IJzer transporteert elektronen in mitochondria



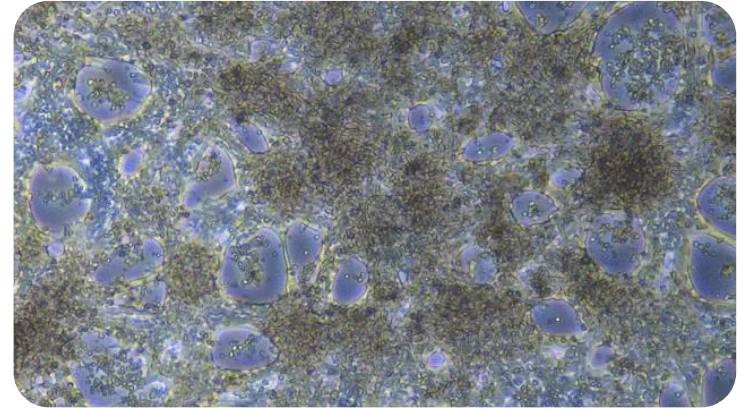
# In vitro model: van fibroblast naar cardiomyocyten



Fibroblasten



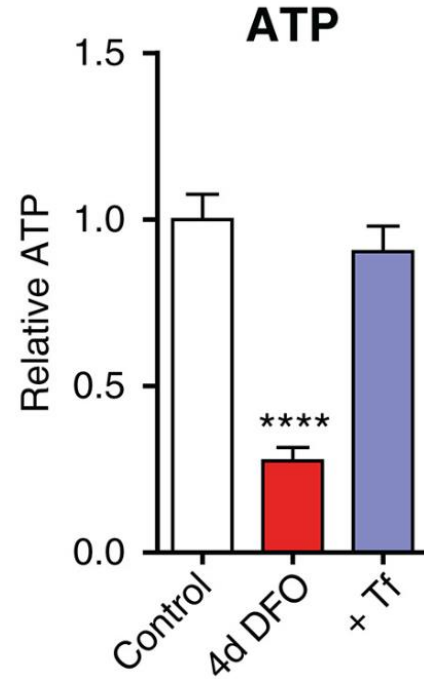
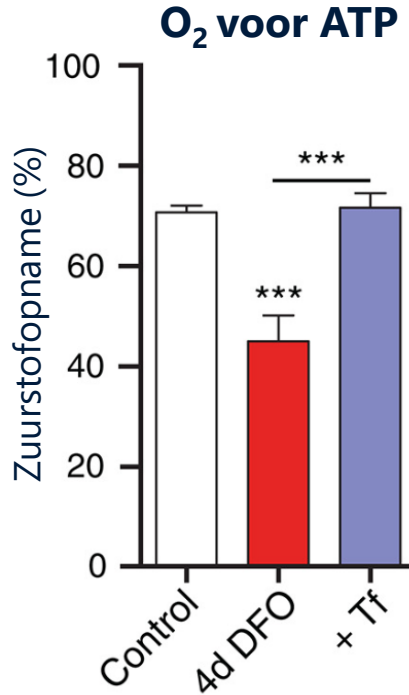
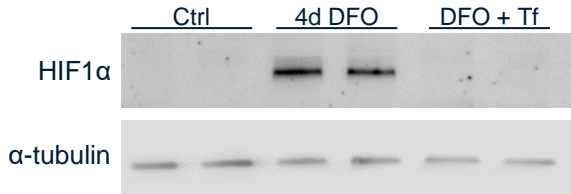
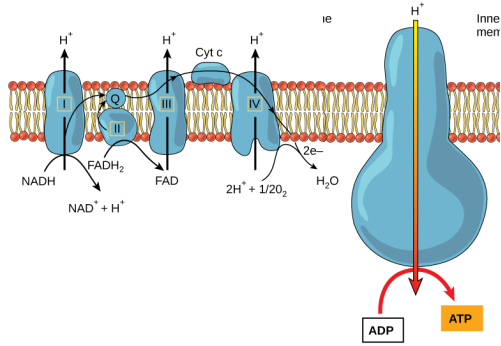
iPSC



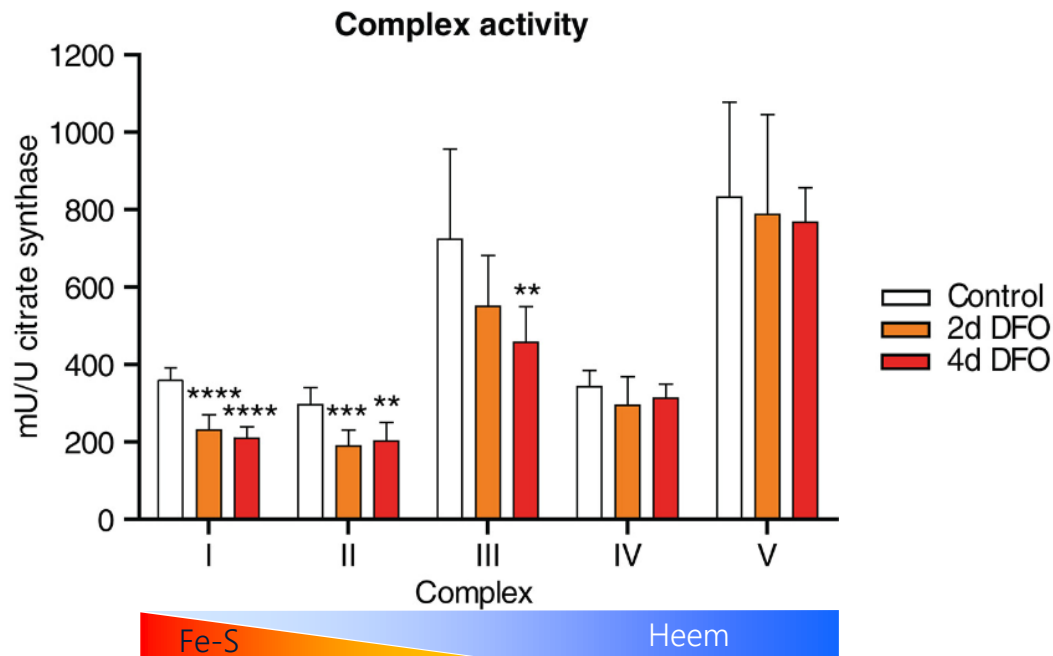
Cardiomyocyten



# Verminderde mitochondriële functie...

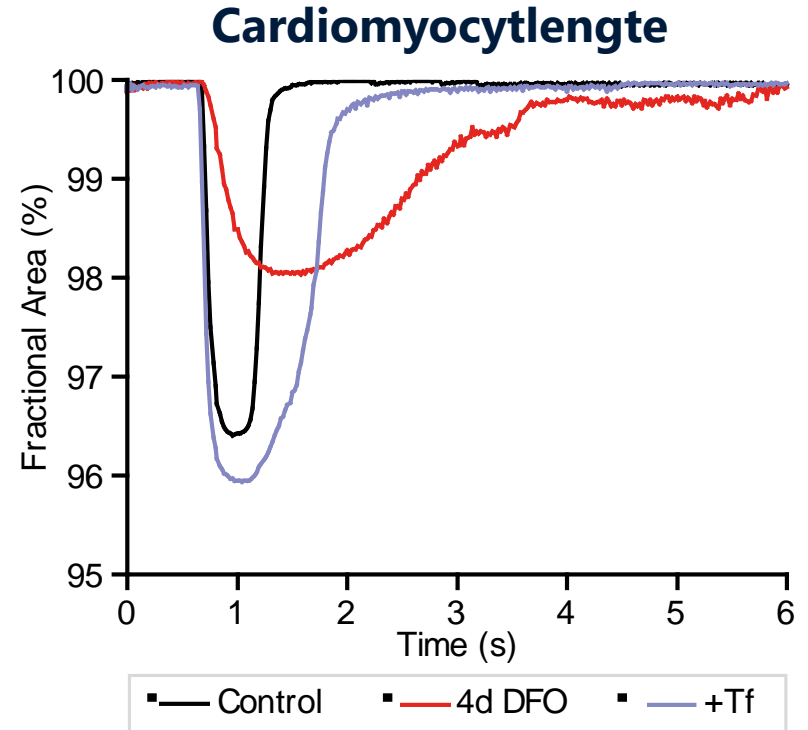
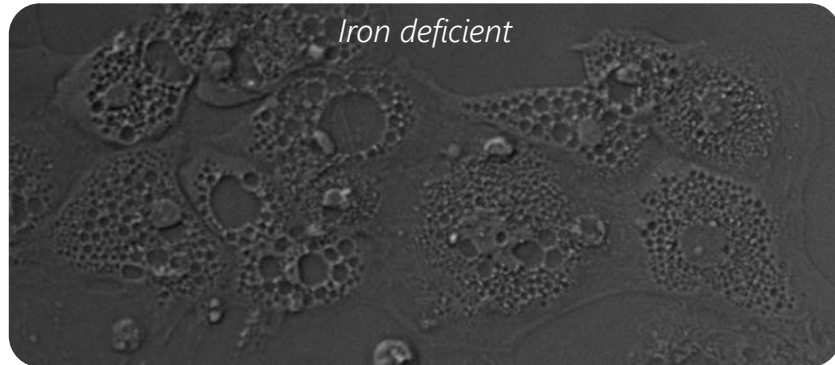
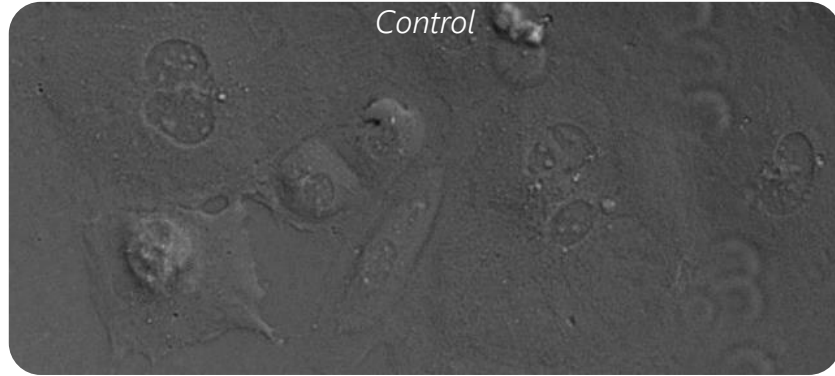


# ...door disfunctionele complexen

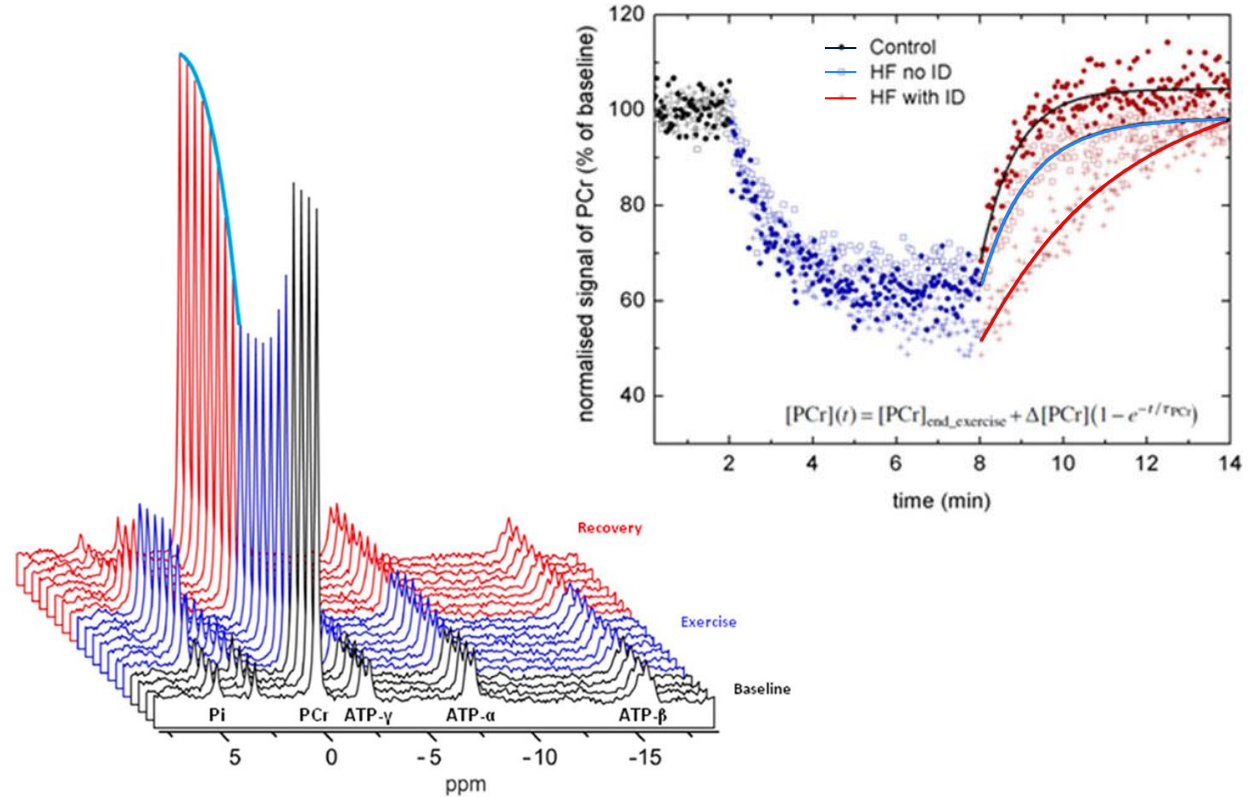
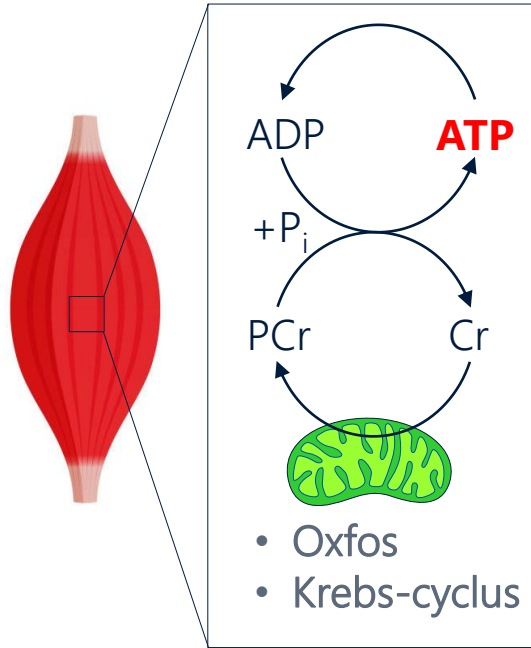




# IJzersupplementen verbeteren contractiliteit *in vitro*



# Fosfocreatine herstel is trager bij HF



# IJzerdeficiëntie heeft systemische gevolgen

