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## Hibernating mitochondria, the cool key to cellular protection and transplant optimization

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# HIBERNATING MITOCHONDRIA

THE COOL KEY TO CELLULAR  
PROTECTION AND TRANSPLANT  
OPTIMIZATION

*Mitochondrial aspects of hibernators  
and non-hibernators in hypothermia*

Koen Derk Willem Hendriks



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# Hibernating mitochondria, the cool key to cellular protection and transplant optimization

Mitochondrial aspects of hibernators  
and non-hibernators in hypothermia

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Mens, op tafel  
De nier gisteravond koud  
in een piepschuimen doos  
weggezet en expres ingevlogen

*De herfst loopt op zijn eind,  
de voorraadkast vol eikeltjes  
Het holletje op slot en rustig slapen*

Nier, weggerukt  
in een bak ijs gedrukt  
Met de energieketen verbroken krijgen  
de radicalen vrij spel

*In totale ontspanning  
vertraagt het leven  
Zo nu en dan even strekken  
Metabolisme 1 procent*

Koud in het nieuwe lichaam  
Bruut weer tot leven gewekt komt de genade als een klap  
overcompensatie, reperfusie, inflammatie  
Op de laatste adem, net gehaald

*De kou verdwenen  
en de fysiologie weer op stoom  
Is zonder incidenten en als vanzelf  
De hamster  
als herboren*

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