

# Hypoxia-induced muscle atrophy

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# Stellingen

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## Hypoxia-induced muscle atrophy: regulation of muscle protein turnover

Chiel C. De Theye, Maastricht, 22 Januari 2016

1. Het effect van hypoxie op spiermassaverlies in muizen is deels te verklaren door een verminderde voedselinname. *(dit proefschrift)*
2. De samenstelling van oxidatieve spieren is afgestemd op het zuurstofafhankelijk metabolisme. Desondanks wordt de massa ervan minder aangetast door hypoxie dan glycolytische spieren. *(dit proefschrift)*
3. Hypoxie ontregelt de aansturing van mTORC1 in de eiwit synthese regulatie. *(dit proefschrift)*
4. De glucocorticoïd receptor is betrokken bij de ontregeling van mTORC1 activiteit door hypoxie. *(dit proefschrift)*
5. De aanpassingen in de eiwit turnover regulatie in de spier na vasten onder hypoxie zijn geen afspiegeling van de versterkte spiermassaverlies onder die omstandigheden. *(dit proefschrift)*
6. Het negeren van de invloed van een verminderde voedsel inname tijdens hypoxie op de spiermassa regulatie in *in vivo* hypoxie onderzoek, leidt tot verkeerde conclusies over aangrijpingspunten voor farmacologische interventie.
7. Principles for the development of a complete mind: Study the science of art. Study the art of science. Develop your senses- especially learn how to see. Realize that everything connects to everything else. *(Leonardo Da Vinci)*
8. Modelbouw is de basis voor een biomedische wetenschapper.
9. Kostbaar is de wijsheid die door ervaring wordt verkregen. *(Albert Einstein)*
10. Kennis is macht, maar kennis delen is kracht. *(Francis Bacon)*