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Universiteit Leiden



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Title: Metabolic and endocrine adaptations to fasting in lean and obese individuals

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Stellingen behorende bij het proefschrift:

Metabolic and endocrine adaptations to fasting in lean and obese individuals

1. The decreased skeletal muscle mitochondrial protein content found in obese individuals is likely involved in the metabolic inflexibility that characterizes obesity. *This thesis*
2. If AMPK is activated upon fasting, it must be an early and transient event. *This thesis*
3. Fasting as well as weight-loss induces dominance of the sympathetic nervous system in obese subjects. *This thesis*
4. Reward and saliency brain networks, assessed with fMRI, are altered in obesity. *This thesis*
5. AMPK dysregulation is involved in the pathogenesis of insulin resistance and obesity. *Ruderman et al. Journal of Clinical Investigation 2013;123(7): 2764–2772.*
6. The current public opinion that obesity can be cured by reducing energy intake and increasing physical activity is too simple. *Hafekost et al. 2013. BMC Medicine 2013;11(41).*
7. At the moment bariatric surgery is the only effective treatment for obesity. *Gloy et al. BMJ 2013: 347(f5934).*
8. A long term view on fMRI studies is necessary to determine their true scientific impact. *C.M. Bennett et al. Annals of the New York Academy of Sciences 2010.*
9. Whatever it is you're seeking won't come in the form you're expecting. *Haruki Murakami. Kafka on the Shore 2002.*
10. Dik zijn is minder erg dan dik doen. *Tegelspreuk*
11. Patients with obesity should not be judged or laughed about.

Marjolein Wijngaarden

• Leiden, 26 maart 2015