

Molecular analysis of human adipocytes during glucose restriction and (re)feeding

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Proposition (Statements)

Belonging to the dissertation

Molecular analysis of human adipocytes during glucose restriction and (re)feeding.

A proteomics approach towards understanding weight regain

1. The obesity epidemic has far-reaching consequences for individuals, society and the economy. (This thesis)
2. One of the biggest challenges in the management of obesity is the prevention of weight regain after successful weight loss. (Marleen van Baak & Edwin C.M. Mariman. *Nature Reviews Endocrinology*, 2019)
3. Besides psychosocial and lifestyle influences, there is a growing awareness on the involvement of physiological and molecular parameters related to weight (re)gain. (This thesis)
4. Glucose restriction followed by refeeding leads to changes in the secretome of adipocytes which are related to extracellular matrix modification, lipid metabolism, the complement system and tissue homeostasis. (This thesis)
5. Analysis of proteins can lead to the discovery of novel drug targets and biomarkers for disease diagnosis, prognosis, and prediction, and is a key concept of personalized medicine. (Koen Sandra)
6. No method is perfect in proteomics and every strategy has its own pros and cons. (This thesis)
7. “Big data will not change the world unless it’s collected and synthesized into tools that have a public benefit.” (Sarah Williams)
8. The best preparation for tomorrow is doing your best today. (H. Jackson Brown, Jr.)
9. To read without reflecting is equal to the eating without digesting. (Edmund Burke)
10. A journey of a thousand miles begins with a single step. (Chinese proverb)
11. It's not scary that there are many people who are better than you, but it is scary that those who are excellent still work harder than you.

Qi Qiao (乔奇), Maastricht, 27 August 2020