

Identification and regulation of (novel) human adipokines : a proteomic approach

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Stellingen

Behorende bij het proefschrift

Identification and regulation of (novel) human adipokines

- 1 SGBS cells are an ideal adipocyte cell strain with readily culture and manipulation qualities to study the human (pre)adipocyte biology. (This thesis)
- 2 Reduced expression of secretory proteins is a survival mechanism of hypoxic (pre)adipocytes which in turn leads to adipose tissue dysfunction. (This thesis)
- 3 Resveratrol and calorie restriction are two strategies to improve obesity-associated metabolic disorders although they activate different cellular signalling responses and regulation mechanisms. (This thesis)
- 4 Compared to resveratrol calorie restriction is a less forceful strategy to treat obesity and its metabolic disorders, but it reaches its positive effects with minor cellular stress. (This thesis)
- 5 Since there is no golden standard in proteomics only a combination of different proteomics techniques complete the identification and qualification of proteins. (This thesis)
- 6 The continuing identification of novel adipocyte-secreted proteins is an indication of improvements of cell culture and proteomics limitations. (This thesis)
- 7 The phenomenon of obesity confronts our existence with the positive as well as the negative achievements of our modern society.
- 8 Treating obesity is more than a reduction of excess fat. (S.E. Wozniak. Dig Dis Sci. 2009, 54(9): 1847-56)
- 9 Mass spectrometry based proteomics is a central life science technology that has realized great progress towards the identification, quantification, and characterization of the proteins that constitute a proteome. (A. Bensimon, A.J. Heck and R. Aebersold. Annu Rev Biochem. 2012, (81) 379-405)
- 10 To understand the whole biological networks and regulation systems the interface of biology, chemistry, mass spectrometry and bioinformatics is essential in modern research.
- 11 Today we still yearn to know why we are here and where we came from and our goal is nothing less than a complete description of the universe we live in. (Stephen Hawking)
- 12 The amazing thing is that every atom in your body came from a star that exploded. (Lawrence M. Krauss)