

Proteomics investigations : towards mechanisms and biomarkers for drug-induced hepatotoxicity

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STELLINGEN

Behorende bij het proefschrift:

Proteomics investigations towards mechanisms and biomarkers for drug-induced hepatotoxicity.

1. Hepatocyte-based *in vitro* models such as HepG2 cells and primary mouse hepatocytes, are useful tools for studying the molecular effects of hepatotoxic compounds. (*This thesis*)
2. The secretion of liver-specific proteins is well preserved in primary mouse hepatocytes. (*This thesis*)
3. There is more similarity between hepatocyte-based *in vitro* models such as HepG2 cells and primary mouse hepatocytes, than between each of the *in vitro* models and their *in vivo* counterpart (*This thesis*).
4. The classification of drug-induced hepatotoxicity is complicated by the overlap of molecular mechanisms between different model-hepatotoxicants. (*This thesis*)
5. mRNA expression is not always predictive for the expression at protein level, which demonstrates the complexity in regulation of gene expression. (*Low TY et al. Cell Reports 2013*)
6. According to the Pareto principle, a small proportion of causes produces a large proportion of results. In other words only a small difference in gene or protein expression is needed to induce a difference in phenotype.
7. The development of new pharmaceuticals without animals testing is declared impossible, until it is done.
8. Enjoyment of life depends on the liver.
9. Het misverstand tussen Vlamingen en Nederlanders is dat beiden denken dat ze dezelfde taal spreken. (*Paul Wouters*)
10. When you're curious, you find lots of interesting things to do. (*Walt Disney*)