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Metabolomics of biofluids : from analytical tools to data interpretation

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PROPOSITIONS

belonging to the thesis

Metabolomics of biofluids: from analytical tools to data interpretation

1. The reproducibility of migration time is a serious issue in capillary electrophoresis but it can be conquered (this thesis).
2. It is hard to imagine more opposite processes than prolonged life and accelerated aging, yet similar metabolic processes might be involved (this thesis).
3. Carefully designing the study prior to the experiment enriches the results of a metabolomics study and its interpretation (this thesis).
4. Different analytical technologies uncover different biological processes (this thesis).
5. The power of statistics is easy to abuse. Both non-statisticians, who use statistical tools as “black boxes”, and statisticians, who create complex models that are impossible to criticize, do it.
6. The human body contains ten times more bacteria than human cells: the impact they have on many processes ranging from sensitivity to paracetamol to hyperactivity in children deserves more attention.
7. Current metabolic, as well as genetic and protein, maps provide information about the correlation between their components, but not about the causality of the events in biological systems. (Science 2002, **295**:1662-1664)
8. The lack of agreement for the total number of human metabolites shows the gap between the fields of genomics and metabolomics.
9. People do not think about others as a mosaic of characteristics: instead we see each person as roughly good or roughly bad.
10. Well-behaved women seldom make history (Laurel Ulrich).
11. Thursday is better than Sunday. Because on Sunday tomorrow is Monday and on Thursday tomorrow is Friday.
12. Oost west..... Moscow is the best.