Novel insights into the health effects of fruits and vegetables

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Propositions accompanying the thesis

Novel insights into the health effects of fruits and vegetables

Challenging the status quo

- Lycopene depletion is one of the first signs of chronic low-grade inflammation. This
 thesis
- 2. Sulforaphane induces a mild pro-inflammatory effect during caloric overload, suggesting its hormetic response. *This thesis*
- 3. In the primary prevention of cardiovascular events, broccoli sprouts should be on the menu due to its antiaggregant effect via reduction of 11-dehydro-TXB₂. *This thesis*
- 4. Heart rate variability is a sensitive tool to assess inflammatory activity and can be used to investigate beneficial effects of phytonutrients. *This thesis*
- 5. Innovative integrative research approaches enhance our understanding of health effects of nutrition.
- 6. Searching for novel methods to substantiate health claims should be a continuous endeavor for both researchers and assessors.
- 7. The umbrella term 'non-communicable diseases' should be refined to better reflect the underlying pathophysiology, e.g. chronic inflammation.
- 8. A cross-over design in conjunction with a dynamic challenge is an optimal experimental approach to investigate subtle and pleiotropic effects of nutrition on an individual level.
- 9. In demonstrating causal relationships between whole foods and health, the design of a suitable placebo is key.
- 10. De échte waarde(n) van groenten en fruit zit in de samenstelling én het samenspel van de afzonderlijke componenten.
- 11. De terhandstellingskosten uit de basisverzekering zouden ook moeten gelden bij de groenteboer.

Hidde P. van Steenwijk Maastricht, 30th of November 2023