

Energy balance and colorectal cancer risk

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Propositions belonging to the thesis

ENERGY BALANCE AND COLORECTAL CANCER RISK: A ROLE FOR CANCER CELL METABOLISM?

Josien Jenniskens

- 1. Non-pathologists can generate valid and reproducible immunohistochemistry scoring results. (*this thesis*)
- 2. The Warburg-effect plays a role in the etiological pathway between adiposity and colon cancer risk, but not rectal cancer. (*this thesis*)
- 3. The role of the Warburg-effect in the etiological pathway between energy balance and colorectal cancer risk differs according to sex. (*this thesis*)
- 4. The Warburg-subtypes that were used in the current thesis give a better representation of the Warburg-effect than the subgroups based on *KRAS*, *PIK3CA*, and *BRAF* mutation status and MMR status. (*this thesis*)
- 5. Colorectal cancer should not be considered a single disease.
- 6. Making compromises is unavoidable in molecular pathological epidemiology research.
- 7. Close collaboration, while acknowledging strengths and weaknesses of disciplines, is essential for multidisciplinary research, like molecular pathological epidemiology, to succeed.
- 8. Insights into mechanisms underlying the etiological pathway between energy balance-related factors and colorectal cancer risk will improve preventive strategies.
- 9. Every expert was once a beginner.
- 10. If you can't explain it simply, you don't understand it well enough. (*Albert Einstein*)
- 11. 't Leve is un feest, en op feeste moste danse. (Beppie Kraft 't leuke zeuke)