

Cancer cell metabolism and colorectal cancer survival

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PROPOSITIONS BELONGING TO THE THESIS

CANCER CELL METABOLISM AND COLORECTAL CANCER SURVIVAL: A ROLE FOR WARBURG-SUBTYPES?

- 1. Warburg-subtyping has prognostic value in colorectal cancer, independent of known prognostic factors such as disease stage. *This thesis*
- 2. Trained non-pathologists can generate reproducible immunohistochemistry scoring results that are comparable to those of an experienced pathologist. *This thesis*
- Mutational subgroups, based on the observed mutation frequencies of RAS (KRAS, NRAS, HRAS), BRAF, PIK3CA, and MET, as well as patients' mismatch repair status, are associated with differences in cancer-specific and overall survival. – This thesis
- 4. Warburg-subtyping may be used to predict survival benefit from adjuvant (chemo) therapy in colorectal cancer patients. *This thesis*
- 5. Warburg-subtyping may in the future be used for risk stratification of colorectal cancer patients, and the design and tailoring of Warburg-targeted therapies. *This thesis*
- Molecular pathological epidemiological studies are essential to understand the complex interplay between etiological factors, molecular alterations and disease outcome.
- 7. Research should not focus on answering the question "Does marker X have prognostic value in disease Y?" but rather "Does marker X have added prognostic value over the already existing markers in disease Y?"
- 8. Statistically non-significant results may still be clinically relevant and should always be reported.
- The spread of misinformation on social media hinders public trust in (biomedical) science.
- 10. It is perfectly possible to pursue an academic career and be a 'good' mother at the same time.
- 11. Doorzettingsvermogen en inzet zijn minstens zo belangrijk als intelligentie.

Maastricht, 13 April 2023

Kelly Offermans