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Glucose and glycogen metabolism in cancer

de Heer, Ellen

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Glucose and glycogen metabolism in cancer

Potentials for intervention and patient selection

1. Drug targeting of hypoxia-induced angiogenic and metabolic changes is an alternative approach to direct targeting of hypoxia-inducible factors to inhibit growth of breast cancer cells. — this thesis
2. Glycogen synthase 1 downregulation impairs the proliferation of breast cancer and clear cell ovarian cancer cells. — this thesis
3. Monocarboxylate transporter 1 tumour cell expression is heterogeneous within and between lesions in a patient, and high expression can facilitate tumour cell lactate consumption and metastasizing capacity. — this thesis, Faubert et al. Cell 2017 & Science 2020, Tasdogan et al. Nature 2020
4. In patients with metastatic melanoma, the use of ^{18}F -FDG PET/CT scans is supported by high-level evidence for the diagnostic work-up but not for other purposes. — this thesis
5. ^{18}F -FDG uptake in melanoma metastases differs within and between patients, making it of interest to study quantitative FDG parameters as a predictive biomarker for metabolic anticancer drugs. — this thesis
6. Semi-automatic analysis of ^{18}F -FDG PET/CT scans of patients with metastatic melanoma is feasible and can facilitate evaluation of quantitative ^{18}F -FDG parameters in multicentre prospective studies. — this thesis
7. Trials that include ‘real-world’ patient populations help medical doctors and patients in making realistic treatment choices, thereby improving appropriate health care and appropriate government health expenditure. — Rothwell et al. Lancet 2005, Tan et al. Lancet Healthy Longev 2022
8. Validated circulating tumour DNA assays can aid in clinical treatment decisions when tumour biopsies are not (yet) available. — Turner et al. Lancet 2020, Pascual et al. Ann Oncol 2022
9. The 10,000 metres speed skating event should remain part of the allround tournament, not only for the spectators’ enjoyment but also to ensure adequate testing of the skater’s aerobic muscle metabolism and tactical skills. — Van Ingen Schenau et al. Med Sci Sports Exerc 1990, Muehlbauer et al. J Strength Cond Res 2010, Konings et al. Sports Med 2015
10. For most of history, humankind has had to fight nature to survive; in this century, it is beginning to realize that, in order to survive, it must protect it. — adapted from J.Y. Cousteau, IPCC Sixth Assessment Report 2022
11. Absence of evidence is not evidence of absence. — Altman et al. BMJ 1995
12. Good doctors know all protocols, bad doctors follow them all.
13. Music gives a soul to the universe, wings to the mind, flight to the imagination, a charm to sadness, gaiety, and life to everything — and inspiration to an MD/PhD student.