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Improving diagnostic, prognostic and predictive biomarkers in colorectal cancer: the role of proteomics and stromatogenesis

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Improving Diagnostic, Prognostic and Predictive Biomarkers in Colorectal Cancer

The role of Proteomics and Stromatogenesis

1. Early diagnosis of cancer is of pivotal importance to reduce disease-related mortality (This thesis).
2. Assessment of the tumor-stroma ratio is a fast, cheap and reliable prognostic biomarker (This thesis).
3. Combining vascular invasion with the tumor-stroma ratio selects for a group of patients with very poor prognosis (This thesis).
4. Biochemical derangements in the stroma of tumors from patients with aggressive colon cancer consists among others of increased activation of VEGFR-2 (This thesis).
5. New technological developments in the field of clinical proteomics are necessary for implementing this technique into routine personalized clinical practise.
6. Further unravelling biological differences, interconnections and changes in the tumor stroma tissue of every individual tumor is important to optimize tailored treatment for colorectal cancer patients.
7. Stromal matrix formation might be an important factor to predict therapy response.
8. Artificial intelligence, automation and deep learning can bring tumor stroma research to a next level.
9. 'Research is to see what everybody else has seen and to think what nobody has thought.' (Albert Szent-Györgyi 1957). Sometimes all it takes is to look again with a different mindset.
10. When you can't control the wind, adjust your sails; change the plan, but never the goal. (inspired by Bertha Calloway 1998).
11. Be original and keep evolving, because one's mind stretched to a new idea never goes back to its original dimensions (inspired by Oliver Wendell Holmes, Sr. 1858).
12. "Whenever you find yourself on the side of the majority, it is time to pause and reflect." (Mark Twain 1904). No one ever made a difference by being like everybody else.