

Novel molecular imaging methods for cancer detection

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Novel molecular imaging methods for cancer detection: More than meets the eye

Kranthi Panth
Maastricht, 30 June 2016

1. Tumor microenvironmental factors influence tumoral [⁸⁹Zr]-cetuximab uptake (this thesis)
2. MMP2 small immune protein antibody uptake depends on MMP2 activity (this thesis)
3. Radiomics can detect changes in gene expression at an early stage (this thesis)
4. CT imaging features are influenced by changes in tumoral oxygenation status (this thesis)
5. Imaging of FDA approved antibodies fastens their validation in clinic (valorization)
6. It's not whether you have pancreatic cancer, colon cancer or lung cancer that's going to be important to the treating clinician, what's going to be important to the treating clinician is what's wrong with your tumor at a molecular level (Otis Brawley)
7. Radiomics: Images Are More than Pictures, They Are Data (Robert J. Gillies, Paul E. Kinahan, Hedvig Hricak)
8. Cancer is like the common cold; there are so many different types. In the future we'll still have cancer, but we'll detect it very, very early, so that it won't kill anybody. We'll zap it at the molecular level decades before it grows into a tumor (Michio Kaku)
9. Science knows no country, because knowledge belongs to humanity, and is the torch that illuminates the world (Louis Pasteur).
10. Everything is theoretically impossible, until it is done (Robert A. Heinlein)
11. Excellence is a continuous process and not an accident (A.P.J Abdul Kalam)