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Next generation sequencing guided molecular diagnostic tests in non-small-cell lung cancer

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Stellingen

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Next Generation Sequencing Guided Molecular

Diagnostic Tests in Lung Cancer

1. Chromosomal translocations affecting the *ALK* locus do not necessarily lead to altered mRNA and / or protein levels (this thesis).
2. RNA-based method may outperform a DNA based method in detecting multiple types of activating (driver) mutations (this thesis).
3. Epithelial-mesenchymal transition plays an important role in crizotinib resistance in ALK fusion gene positive patients (this thesis).
4. Patients with *EGFR* mutant non-small cell lung cancer and concurrent *EGFR* amplification have worse prognosis when treated with EGFR-tyrosine kinase inhibitors compared to those without concurrent amplification (this thesis).
5. Amplification detection is important for lung cancer patients to identify possible underlying resistance mechanisms and may serve as a lead for clinicians to select optimal treatment (Clin Cancer Res. 2013 Apr 15;19(8):2240-7).
6. Cell-free DNA in plasma increases in cancer patients, after infections, trauma or surgery, while tumour-derived DNA is mostly undetectable in very early cancer stages and in post-surgery plasma (this thesis).
7. If you want to go fast, go alone. If you want to go far, go together (African Proverb).
8. Go for the messes, that's where the action is (Steven Weinberg).
9. Nothing in life is to be feared, it is only to be understood. Now is the time to understand more, so that we may fear less (Nobel Laureate, Marie Curie).
10. Success is not final, failure is not fatal: it is the courage to continue that counts (Winston Churchill).

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