

Stellingen Behorende bij het proefschrift:

Propositions associated with the thesis:

Signal transduction pathways in chronic lymphocytic leukemia

1. Both B-cell intrinsic factors, such as BCR signaling and enhanced BTK activity, as well as extrinsic factors, such as T cell help, play critical roles in survival, proliferation and shaping the B cell repertoire of CLL. (*this thesis*)
2. Unmutated CLL can be classified into two distinct subsets: one is T cell-independent, while the other arises upon antigen stimulation in the context of T-cell help. (*this thesis*)
3. In addition to kinases downstream of the BCR, phosphatases such as SHIP1 and SHIP2 can have an oncogenic role in CLL. (*this thesis*)
4. Independent activation of the ERK and PI3K/BTK signaling pathways indicates redundancy in survival signaling in CLL and should be considered when choosing kinase inhibitors in CLL therapy. (*this thesis*)
5. ERK activation is not only a marker of anergy in CLL, but may also act as an inducer of apoptosis. (*this thesis*)
6. Moving from the era of chemotherapy toward an era of patient-friendly novel agents represents a dramatic improvement in the life of our CLL patients, and brings us a step closer to cure of this disease. (*Woyach J.A. et. al., Blood 2015*)
7. Tumor evolution following therapy is the rule rather than the exception. (*Landau D.A. et al., Nature Communications 2017*)
8. Progress in medicine must always remain in our rear view mirror, leaving behind what has been accomplished and forever searching for the next advances of the future. (*Yazdy M.S. et. al., Blood 2018*)
9. Education is for improving the lives of others and for leaving your community and world better than you found it. (*Marian Wright Edelman*)
10. Natural development is achieved step by step. It is guided by the pace of evolution itself. (*Dharam Singh Nihang*)
11. Life is not merely being alive, but being well. (*Marcus Valerius Martialis*)