STELLINGEN (STATEMENTS)

behorend bij het proefschrift

Epigenetic Regulation of Hematopoiesis and Acute Leukemia

Daria Gianina Valerio

1. Understanding the cancer epigenome provides important insight into disease pathogenesis and can inform drug development (this thesis).
2. *NUP98*-fusion driven leukemia is dependent on MLL1 for binding to and expression of its target gene loci (this thesis).
3. MOF's differential role in fetal versus adult hematopoiesis exemplifies that significant differences exist in regulation of chromatin architecture during mammalian hematopoietic development (this thesis).
4. MOF and MLL1 are potential drug targets in acute leukemia (this thesis).
5. The biological consequences of the enzymatic activity of canonical chromatin modifiers on non-histone proteins need to be dissected (this thesis).
6. It is likely that the use of any single-agent targeted therapy regime in cancer will give rise to resistance (Bozic et al, *Elife* 2013).
7. Answering biologically relevant questions using high-throughput technology, whether epigenomic or genomic, requires not only computational skills but also a thorough understanding of the underlying biology.
8. Translational research must be accompanied by a substantial investment in basic science, which provides the essential raw material for translation (Fang, *Infection and Immunity* 2009).
9. Most people say that it is the intellect, which makes a great scientist. They are wrong: it is character (Albert Einstein, 1879-1955).
10. In science, the credit goes to the man who convinces the world, not to whom the idea first occurs (Francis Darwin, 1848-1925).
11. No guts, no glory.