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Identification of prognostic genetic factors in pediatric T-cell acute lymphoblastic leukemia

Publication status and date:
Published: 24/09/2008

Document Version
Other version

Citation for the published version (APA):

Grotel, M. (2008). *Identification of prognostic genetic factors in pediatric T-cell acute lymphoblastic leukemia*. [Doctoral Thesis, Erasmus University Rotterdam]. Erasmus Universiteit Rotterdam (EUR).

[Link to publication on the EUR Research Information Portal](#)

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Stellingen

behorende bij het proefschrift:

IDENTIFICATION OF PROGNOSTIC GENETIC FACTORS IN PEDIATRIC T-CELL ACUTE LYMPHOBLASTIC LEUKEMIA

Identificatie van prognostische genetische factoren bij
kinderen met T-cel acute lymfatische leukemie

Martine van Grotel

Rotterdam, 24 september 2008

1. The molecular-cytogenetic subgroups of T-ALL characterized by *HOX11L2* and *CALM-AF10* abnormalities have a poor outcome (this thesis).
2. Despite the fact that distinct molecular-cytogenetic T-ALL subclasses are associated with arrest at specific T-cell developmental stages, the differences in outcome between these subclasses cannot be attributed to arrest at such maturation stage (this thesis).
3. The association of CD34 expression with a poor survival in pediatric T-cell acute lymphoblastic leukemia is not caused by overexpression of multidrug resistance genes (this thesis).
4. The prognostic significance of specific molecular-cytogenetic entities in pediatric T-cell acute lymphoblastic leukemia needs to be reevaluated based on the finding that different abnormalities might enforce a highly similar gene expression signature (this thesis).
5. The SET-NUP214 fusion product due to the del(9)(q34) represents a new *HOXA* gene activation mechanism that, alike *CALM-AF10* and *MLL*-fusion products, depends on the recruitment of the histone H3-K79 methyltransferase hDOT1L to activate *HOXA* genes thereby facilitating differentiation arrest and promoting cellular proliferation (this thesis).
6. De zorg dreigt het onderwijs achterna te gaan in overgeorganiseerde chaos (NRC, mei 2008).
7. Nil volentibus arduum (*niets is moeilijk voor hen die willen*).
8. The thing to remember when traveling is that the trail is the thing, not the end of the trail. Travel too fast and you miss all that you are traveling for. (Louis L'Amour)
9. Je bent pas echt gelukkig als je je hele leven een kind kunt blijven. (M. Rietra)
10. Everything should be made as simple as possible, but not simpler. (A. Einstein)
11. Our greatest glory is not in never falling, but in getting up every time we do. (Confucius)