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Immunotherapeutic strategies in patients with solid malignancies

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Document Version

Publisher's PDF, also known as Version of record

Publication date:

2012

[Link to publication in University of Groningen/UMCG research database](#)

Citation for published version (APA):

Voskens, C. J. (2012). *Immunotherapeutic strategies in patients with solid malignancies: crossing the line between scientific possibility and clinical reality.* [s.n.].

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Stellingen behorend bij het proefschrift

Immunotherapeutic strategies in patients with solid malignancies **„Crossing the line between scientific possibility and clinical reality“**

Caroline J. Voskens

1. Immobilized Fc enhances the expression of CD137 on IL-2 stimulated human NK cells and expression levels are dependent on patterns of Fc glycosylation (this thesis)
2. CD137 expressing human NK cells play a role in immunomodulation rather than exhibiting direct cytotoxic functions (this thesis)
3. CD137-CD137L interactions promote human B cell proliferation and survival (this thesis)
4. *Ex vivo* NK cell expansion in the presence of exogenous IL-2 and CD137L/IL-15 expressing K562 cells turns the NK receptor balance towards activation resulting in natural cytotoxicity and ADCC against autologous gastric tumor cells (this thesis)
5. Polymorphisms at amino acid position 158 of the Fc receptor are associated with antigen-dependent and antigen-independent NK cell mediated cytotoxicity (this thesis)
6. The disparity of CD137 expression and function between human and murine NK and B cells challenges the use of murine-based disease models for the evaluation of CD137 mediated immune regulation (this thesis)
7. Applying immune-related response criteria on previously conducted clinical studies will likely re-identify various immunotherapeutic strategies with proven favorable toxicity profiles and potential benefit for patients with solid tumors
8. „It is not the strongest of the species that survive, nor the most intelligent, but the one most responsive to change“
Attributed to Charles R. Darwin
9. “Pride: Having it makes giving anything less than your best an impossibility. Conversely, knowing you have given your best makes the failure bearable”
Marshall Strome
10. Vasthouden betekent loslaten
11. “The future belongs to those who can see opportunities before they get obvious”
Oscar Wilde