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Title: Cellular trafficking in haematological and immunological disorders
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1. Tissue-specific cellular trafficking is a complex process which is directed by more than one single chemokine – chemokine receptor pair. (this thesis)

2. The composition of (malignant) immune cells in the circulation expressing a chemokine receptor specific for a distinct tissue does not necessarily reflect the composition of the cells infiltrating that tissue. (this thesis)

3. The interaction between CCL27 and CCR10 is clearly involved in the recruitment of activated CD4+ T cells to the skin in acute Graft-versus-Host Disease. (this thesis)

4. Chemokine receptor expression by leukaemic blasts not only contributes to the migration of these cells to extramedullary sites, but also to their retention and survival at these sites. (this thesis)

5. HY-specific CD8+ T cells are actively involved in the development of acute Graft-versus-Host Disease after gender mismatched haematopoietic stem cell transplantation. (this thesis) Accumulation of HY-specific CD8+ T cells in acute GVHD-affected skin is the missing piece of evidence for understanding why gender mismatching is an established risk factor affecting hematopoietic stem cell transplantation outcome

6. Dermal macrophages outlive by far all other cutaneous antigen-presenting cells of host origin after allogeneic haematopoietic stem cell transplantation and may promote acute Graft-versus-Host Disease through their innate inflammatory properties and their capacity to activate allogeneic T cell responses. (Haniffa et al. Journal of Experimental Medicine, 2009)


8. The involvement of chemokine receptors in migration and homing of malignant cells provides a clear rationale for the development of chemokine receptor antagonist-based therapies. (Zlotnik et al. Nature Reviews Immunology, 2011)


10. Although strong evidence exists that metastasis of (breast) cancer is dependent on chemokine-chemokine receptor interactions, treatment is still based on the idea that cancer cells will first seed to regional lymph nodes before invading other organs.

11. The correct application of treatment protocols does not necessarily imply that the sampling schemes from these protocols are also applied correctly.

12. He who laughs most, learns best. (John Cleese)

13. The beginning of knowledge is the discovery of something we do not understand. (Frank Herbert)