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## **T and NK cell immunity after hematopoietic stem cell transplantation**

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## T and NK cell Immunity after Hematopoietic Stem Cell Transplantation

1. Cytomegalovirus reactivation early after hematopoietic stem cell transplantation leads to a massive CD8<sup>+</sup> memory T cell expansion but does not negatively affect the reconstitution of naive CD4<sup>+</sup> and CD8<sup>+</sup> T cells. (this thesis)
2. In patients with both primary and secondary T cell deficiency, a unique cytotoxic CD56<sup>bright</sup> NK cell population appears as a quick reaction force. (this thesis & K. Dobbs et al., *Front. Immunology* 2017;8:798)
3. In the study of human lymphocyte trafficking by evaluation of chemokine receptor expression on circulating lymphocytes, the cells expressing these receptors that actually migrated to their target tissues would be missed. (this thesis)
4. The identification of CD69<sup>+</sup>CXCR6<sup>+</sup> lymphoid tissue NK cells invites for a re-assessment of the developmental relationship between the different human NK cell populations. (this thesis)
5. Brincidofovir brings new hope for pediatric hematopoietic stem cell transplantation recipients: in contrast to Cidofovir, it has a good safety profile and excellent anti-adenoviral activity, even during the lymphopenic period after HSCT. (P. Hiwarkar et al., *Blood* 2017;129:2033-2037 & this thesis)
6. Use of serotherapy may not only delay T cell reconstitution resulting in viral reactivations, but also prohibit effective adoptive immunotherapy early after hematopoietic stem cell transplantation. (Adapted from J Feucht et al., *Blood* 2015;125:1986-1994)
7. The absolute count for each white blood cell population in peripheral blood has clinical significance and is more informative than the relative count given in percentages. (S Leclair in: *Hematology: Clinical Principles and Applications* 2002)
8. Cancer immunotherapy marks a turning point in cancer, as long-sought efforts to unleash the immune system against tumors are paying off — even if the future remains a question mark. (Science breakthrough of the year 2013)
9. Statistical illiteracy is common to patients, journalists, and physicians; it leads to non-transparent framing of information, which is sometimes the result of lack of understanding, but can also be used intentionally to manipulate or persuade people. (G. Gigerenzer et al, *Psychol Sci Public Interest*. 2007;8(2):53-96)
10. It is the set of the sails, not the direction of the wind that determines which way we will go. (J. Rohn, 1930-2009) *When you experience headwind, you need to beat to reach your destiny.*
11. It is the duty of the human understanding to understand that there are things which it cannot understand. (S.A. Kierkegaard, 1813-1855) *Not everything can be explained by logic.*
12. First keep the peace within yourself, then you can also bring peace to others. (T. á Kempis, 1380-1471) *Your state of mind is reflected on the people you encounter.*