Stellingen behorende bij het proefschrift

Dr. Jekyll and Mr. Hyde - Distinctiveness and plasticity of mononuclear phagocytes in the mouse skin

Rotterdam, 20 november 2008

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1. The majority of interstitial cells in the mouse dermis are mononuclear phagocytes.
   This thesis.

2. The transitional expression of the dermal marker mMGL observed in Langerhans cells emigrating from the skin implies a dominant effect of the dermal micro-environment on dendritic cell maturation.
   This thesis.

3. Dermal macrophages develop under inflammatory conditions into potent antigen-presenting cells with a phenotype and function of typical lymph node dendritic cells.
   This thesis.

4. UV-irradiation of isolated skin biopsies counteracts the stimulatory effect of skin explant cultures on LC emigration.
   This thesis.

5. High dose cutaneous UV-irradiation does not necessarily lead to immunosuppression.
   This thesis.

6. Although we take high temperature superconductivity for granted these days and use its applications extensively, we still do not understand the physics of this phenomenon.
   *Bednorz JG and Müller KA. (1986) Possible high T_c superconductivity in the Ba–La–Cu–O system. Z. Phys. B - Condensed Matter. **64**, 189-193.*

7. At our night sky, we see now mostly stars that belong to the third generation of star formation in the universe.
   *Kashlinsky A, et al. (2005) Tracing the first stars with fluctuations of the cosmic infrared background. Nature. **438**, 45-50.*

8. The light of the most distant galaxy seen so far is almost as old as the universe itself (13.4 billion years vs. 14 billion years).
   *Kneib J-P, et al. (2004) A probable z~7 galaxy strongly lensed by the rich cluster Abell 2218: Exploring the Dark Ages. Astrophys. J. **607**, 697-703.*

9. Climate changes can have detrimental consequences, as impressively exemplified by the Sahara, which once consisted of savannas, wetlands and lakes that harbored human settlements on their shores.
   *Sereno PC, et al. (2008) Lakeside cemeteries in the Sahara: 5000 years of holocene population and environmental change. PLoS ONE. **3**, e2995.*

10. The late colonization of Easter Island (Raga Nui), around 1200 A.D. instead of the previously assumed 400 to 800 A.D., implies that the construction of statues and the consequent human destruction of the environment began almost immediately after human inhabitation of the island.
    *Hunt TL and Lipo CP. (2006) Late colonization of Easter Island. Science. **311**, 1603-1606.*

11. Extrapolation of the disparate growth in number of scientific publications compared to the number of people reading these indicates that at a certain time in the future, individual scientific papers will not be read by anybody anymore.