PROPOSITIONS ~ STELLINGEN

THE ORIGIN OF BLOOD STEM CELLS JEAN-CHARLES BOISSET

- It is possible to time-lapse image the deep mouse embryonic structures with single cell resolution (This thesis)
- Hematopoietic stem/progenitor cells emerge from the embryonic hemogenic endothelium and bud into the lumen of the aorta (This thesis)
- Intra-Aortic Hematopoietic Clusters (IAHCs) contain Hematopoietic Stem Cells (HSCs) not capable of reconstituting adult recipients, therefore termed pre-HSCs (This thesis)
- IAHCs contain few hematopoietic progenitor cells (This thesis)
- IAHCs and the first HSCs found in the aorta express the integrins α IIbβ3 and α vβ3 (This thesis)
- αIIb integrin sub-unit participates in the maintenance of HSC activity in the aorta but not in the yolk-sac and fetal liver (This thesis)
- English is an optimist language (Kloumann I. M. et al., PLoS ONE 7(1): e29484.)
- « That we have found the tendency to conformity in our society so strong that reasonably intelligent and well-meaning young people are willing to call White Black is a matter of concern. » (Asch, S. E. (1955). Opinions and social pressure. Scientific American, 193, 33-35.)
- Groups perform better than individuals, although it depends on the group. (Williams Woolley A. Science 330, 686, 2010)
- The rating of an instructor by his/her college students after a semester can be predicted by his/her body language in a 30 sec soundless video. (Ambady N. and Rosenthal R. J. Pers. Soc. Psychol. 64, 431–441; 1993)
- « Pour célébrer la fin de ses travaux, et surtout pour obtenir d'autre félicitations que les siennes propres, [il l'] invita à boire un verre de champagne. » (Jean de Florette, Marcel Pagnol) To celebrate the end of his work, but above all to obtain other congratulations than his own, [he] invited [him] to drink a glass of champagne.