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Universiteit Leiden



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Title: Understanding the biological mechanisms underlying acquired risk factors for venous thrombosis : studies in mice

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Propositions accompanying the PhD thesis
“Understanding the biological mechanisms underlying acquired
risk factors for venous thrombosis: studies in mice’

- 1) Oral ethinylestradiol administration induces changes in the murine coagulation profile, but this does not result in a thrombotic phenotype. (*this thesis*)
- 2) Modulation of hepatic coagulation gene transcription is a shared mechanism by which several acquired risk factors for venous thrombosis impact the hemostatic balance. (*this thesis*)
- 3) Microarray analysis does not allow detection of transcriptional changes for pathways that, like coagulation, are regulated within a narrow window. (*this thesis*)
- 4) The more pronounced anticoagulant activity in the mouse as compared to humans questions whether mice are a suitable model organism to study quantitative effects of acquired risk factors on the hemostatic balance, although they have proven to be a valuable tool for mechanistic studies. (*this thesis*)
- 5) Factor V Leiden hemizygosity shows that the combination of oppositely altered biological functions have to be carefully considered. (*this thesis and Simioni P et al. Blood 2005;106:2363-2365*)
- 6) Unprovoked bleeding and thrombotic episodes can be secondary to endocrine disorders. (*Squizzato A, et al. Intern Emerg Med 2007;2:76-83*)
- 7) Although platelets are critical to formation of the primary hemostatic plug, an effective clot cannot be formed without adequate levels of procoagulant factors. (*Monroe DM et al. Arterioscler Thromb Vasc Biol 2006; 26:41-48*)
- 8) Humans and mice have about the same number of genes, with similar sequences, and we both like cheese. So why aren't mice more like us? The answer probably lies in the regulation of those genes. (*Gunter C et al. Nature 2002:450;509*)
- 9) Everything changes but not every change is an improvement.
- 10) Things we have in common far outnumber and outweigh those that divide us. (*Walt Disney*)
- 11) The greatest adventure is there if you are bold, let go the moment that life makes you hold. (*from "The greatest adventures" by G Yarborough*)
- 12) Absence makes the heart grow fonder. (*adapted from SA Propertius*)