

# Studies on the influence of heparin and heparin derivatives on the generation of thrombin

## Citation for published version (APA):

Baruch, D. (1986). *Studies on the influence of heparin and heparin derivatives on the generation of thrombin*. [Doctoral Thesis, Maastricht University]. Rijksuniversiteit Limburg. <https://doi.org/10.26481/dis.19860314db>

## Document status and date:

Published: 01/01/1986

## DOI:

[10.26481/dis.19860314db](https://doi.org/10.26481/dis.19860314db)

## Document Version:

Publisher's PDF, also known as Version of record

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Stellingen behorende bij het proefschrift van Dominique Baruch

1. It has not been proved that there exist heparin species which have exclusively an antithrombin III-independent action.

(This thesis)

2. Standardization of assays of low molecular weight heparin is required to warrant the clinical relevance of the findings that for equivalent antithrombotic effect these agents produce less hemorrhage than standard heparin in animal models.

3. The findings of Hoylaerts et al. support both an ordered or a random-order bireactant model for the kinetics of the heparin-catalyzed antithrombin III-thrombin reaction.

Hoylaerts, M., Owen, W.G., Collen, D.  
J. Biol. Chem. 259, 5670-5677 (1984)

4. The original findings of Tuczinski et al. do not support their model in which a specific transmembrane protein complex (thrombonexus) is responsible for the association of the prothrombinase complex to the cytoskeleton of platelets.

Tuczinski, G.P., Daniel, J.L., Stewart, G.  
Seminars in Hematology 22, 303-312 (1985)

5. In contrast with their conclusion, the experiments of Griep et al. do not exclude the possibility that during contact activation sulfatide-bound Factor XII is activated by sulfatide-bound kallikrein.

Griep, M.A., Fujikawa, K., Nelsestuen, G.L.  
Biochemistry 24, 4124-4130 (1985)

6. Studies differentiating type IIB- from pseudo-von Willebrand disease have shown the importance of a quantitatively and qualitatively normal balance between platelet receptors and plasma von Willebrand factor in the adhesion to the subendothelium.

Bryckaert, M.C., Pietu, G., Ruan, C. et al.

J. Lab. Clin. Med. 106, 393-400 (1985)

7. If one questions the importance of the renin-angiotensin system in the determinism of hypertension, the multiple implications obtained by studies on renin-secreting tumors should convince all those involved as clinicians, specialists or basic scientists.

8. If there is a general difference between women and men in their approach to science, it may lie in their different relationships to the concept and practice of control.

Ruth Bleier p. 202 in "Science and Gender".

Pergamon Press (1984)

9. The fact that a unique tradition of the Netherlands, home birth, is progressively being given up, cannot only be justified by the search for medical improvement.

10. Niettegenstaande hun bijzondere vaardigheid in het gebruik van vreemde talen is het te betreuren dat de Nederlanders niet zo aan hun eigen taal gehecht zijn als de Fransen.

11. Ce ne peut être qu'une coïncidence si, après avoir habité à Maastricht, ville où les cultures française et hollandaise cohabitent depuis des siècles, je soutiens ma thèse la veille d'élections dont l'issue prévisible est "la cohabitation".