Targeting GPVI

Citation for published version (APA):

Document status and date:
Published: 01/01/2023

DOI:
10.26481/dis.20230216nj

Document Version:
Publisher's PDF, also known as Version of record

Please check the document version of this publication:
• A submitted manuscript is the version of the article upon submission and before peer-review. There can be important differences between the submitted version and the official published version of record. People interested in the research are advised to contact the author for the final version of the publication, or visit the DOI to the publisher's website.
• The final author version and the galley proof are versions of the publication after peer review.
• The final published version features the final layout of the paper including the volume, issue and page numbers.

Link to publication

General rights
Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

• Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
• You may not further distribute the material or use it for any profit-making activity or commercial gain
• You may freely distribute the URL identifying the publication in the public portal.

If the publication is distributed under the terms of Article 25fa of the Dutch Copyright Act, indicated by the “Taverne” license above, please follow below link for the End User Agreement:
www.umlib.nl/taverne-license

Take down policy
If you believe that this document breaches copyright please contact us at:
repository@maastrichtuniversity.nl
providing details and we will investigate your claim.

Download date: 03 Nov. 2023
Propositions belonging to the dissertation:

**Targeting GPVI:**
impact of modulating platelet-collagen interactions on receptor signaling and thrombus formation

by Natalie J. Jooss

1. Platelet receptor engagements differ considerably between purified collagen preparations and atherosclerotic plaque homogenates. These differences affect study outcomes, aimed to investigate collagen-mediated platelet activation. (This thesis)

2. Regardless of the modes of action, drugs interfering in the collagen binding to glycoprotein VI (GPVI) decrease platelet activation and subsequent thrombus formation. (This thesis)

3. Anti-GPVI nanobodies are promising tools to both inhibit and visualize platelet GPVI. (This thesis)

4. The clustering of GPVI is related to an increased flow-dependent thrombus formation and platelet procoagulant activity, thus adding more evidence to the notion that GPVI cluster formation is of significance in vivo. (This thesis)


6. Since the loss of platelet GPVI associates with only minor bleeding events, the receptor is a promising target for the development of novel anti-thrombotic medication. (Jandrot-Perrus et al. 2019 and Lockyer et al. 2006)

7. Collagen-like peptides are reliable tools to investigate the roles of platelet collagen receptors GPVI and α2β1 in a controlled way. (Munnix et al. 2008, de Witt et al. 2014 and Pugh et al. 2017)

8. The bleeding side effects of current anti-thrombotics warrant further clinical investigations of GPVI inhibition to combat (athero)thrombosis. (This thesis, valorization)

9. Science is never done, but this thesis is! (A good friend)

10. Normality is a paved road: it’s comfortable to walk, but no flowers grow. (Vincent van Gogh)

11. Do the little things right, and the big ones take care of themselves. (Emily Dickinson)

Natalie J. Jooss, 16th of February 2023