

The MacroScreen Platform

Citation for published version (APA):

Fontaine, M. A. C. (2020). *The MacroScreen Platform: Capturing Cardiovascular Disease Inflammation In Vitro*. [Doctoral Thesis, Maastricht University]. Maastricht University.
<https://doi.org/10.26481/dis.20200514mf>

Document status and date:

Published: 01/01/2020

DOI:

[10.26481/dis.20200514mf](https://doi.org/10.26481/dis.20200514mf)

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.

Propositions

Belonging to the thesis

The MacroScreen Platform: Capturing Cardiovascular Disease Inflammation In Vitro

1. Macrophage's transcriptional plasticity is directly linked to its functional profile (this thesis).
2. Systemic changes following acute myocardial infarction induce reprogramming of human macrophages by adapting their functional and transcriptional profile (this thesis).
3. In obesity, lipid patterns hold promise as biomarkers and potential therapeutic targets for cardiovascular disease risk, as they are involved in many biological processes (this thesis).
4. Murine myeloid Mcl-1 deficiency can serve as a model of neutropenia or giant cell-enriched atherosclerosis (this thesis).
5. The multiparametric MacroScreen platform is a cheap and quick way to measure 19 distinct macrophage functions in parallel and in high-throughput, in contrast to most platforms that can only measure a single output in high-throughput.
6. Environment-derived cues should be integrated with genetics to achieve better disease risk stratification.
7. With rapid advances in artificial intelligence, the greatest challenge for biomedical researchers is communication with data scientists.
8. Ce qui n'est pas publié, n'a pas été fait!
“What hasn't been published hasn't been done!”.
9. Good science comes in threes.
10. When the PhD trajectory gives you lemons, grab tequila and salt!