

The transcriptomics of the ever-changing heart

Citation for published version (APA):

Hegenbarth, J. (2023). The transcriptomics of the ever-changing heart: From development to senescence. [Doctoral Thesis, Maastricht University]. Maastricht University. https://doi.org/10.26481/dis.20230201jh

Document status and date:

Published: 01/01/2023

DOI:

10.26481/dis.20230201jh

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

- 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: 23 Apr. 2024

The Transcriptomics of the ever-changing Heart From Development to Senescence

Propositions

- 1. I solemnly swear that I am up to no good. (*The Marauder's Map J. K. Rowling*)
- 2. The heart is surprisingly unaffected by aging, expressing a high immune response at the gene level. (*This thesis*)
- From the perceptive of their transcriptomes, each accelerated aging murine model manifests a pathway specific modification rather than a phenotypical change. (This thesis)
- 4. We must continue to challenge generally accepted but unproven principles. (This thesis)
- 5. Human induced pluropotent stem cell differentiation show expression patterns of major cardiomyocytes populations of the adult human heart. (*This thesis*)
- Bioinfromatics including machine learning approaches can help to decipher patterns with promising insights not detectable by the "human eye" in large datasets. (This thesis)
- 7. Science needs to continuously adapt and improve the management of overhelming information gathered over decades of research. (This thesis)
- 8. We are only as strong as we are united, as weak as we are divided. (Albus Dumbledore in *Harry Potter and the Goblet of Fire* J. K. Rowling)
- Success in research needs four Gs: Glück, Geduld, Geschick und Geld. ("Luck, patience, skill and money", Paul Ehrlich)
- 10. I think everybody in this country should learn how to program a computer because it teaches you how to think. (Steve Jobs)
- 11. Tudo o que acontece uma vez pode nunca mais acontecer, mas tudo o que acontece duas vezes, acontecerá certamente uma terceira. ("Everything that happens [only] once can never happen again. But everything that happens twice will surely happen a third time." The Alchemist Paulo Coelho)

Jana-Ch. Hegenbarth February 1st, 2022