

The transcriptomics of the ever-changing heart

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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