

# Molecular signatures of myocardial infarction

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Propositions accompanying the dissertation

**Molecular signatures of myocardial infarction:  
a multidisciplinary analytical approach**

1. For the field of cardiovascular diseases the use of mass spectrometry imaging will remain a tool for fundamental and clinical research, as it is an ex-vivo analysis more efforts are needed for the integration with the clinic. *(this thesis)*
2. With a proper setup it is possible to obtain multiple datasets from one single tissue section using spatial-omics workflows. *(this thesis)*
3. Having insight in the molecular responses of the cardiac tissue after a myocardial infarction is crucial for the development of novel treatment strategies. *(this thesis)*
4. Unlike cardiac troponin T, the levels and composition of cardiac troponin I in the blood do not show a clear distinction between myocardial infarction patients and other non-cardiac conditions, like ESRD and marathon. *(this thesis)*
5. "Diagnosis is not the end, but the beginning of practice." - *Martin H. Fisher*
6. "When you want to know how things really work, study them when they're coming apart." - *William Gibson*
7. Collaboration and discussion between the experimental field and clinicians, from bench to bedside, is a fundamental part of medical research.
8. New and more specific cardiac troponin assays will improve healthcare once they are properly implemented as part of the diagnostic workflow. *(this thesis – impact chapter)*
9. "There will always be rocks in the road ahead of us. They will be stumbling blocks or stepping stones. It all depends on how you use them." - *Friedrich Nietzsche*
10. "Tell me and I forget. Teach me and I remember. Involve me and I learn." - *Benjamin Franklin*

**Stephanie T.P. Mezger**, 12th July 2022