

# Metabolic phenotyping of the pressure-overloaded heart

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# Metabolic phenotyping of the pressure-overloaded heart

## Focus on model development

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Maastricht, 24 januari 2020

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1. Sarcolemmal substrate transporters are the key limiting steps in cardiac substrate utilization. *(Dit proefschrift)*
2. Adult rat cardiomyocytes treated with phenylephrine is a representative model to mimic pressure overload-induced heart failure. *(Dit proefschrift)*
3. Pharmacological interventions that force cardiac metabolism towards fatty acid utilization will prevent contractile dysfunction. *(Dit proefschrift)*
4. The use of stem cell-derived cardiomyocytes as a powerful tool to study cardiac disease requires a metabolic profile that reflects the adult human heart. *(Dit proefschrift)*
5. The treatment of heart failure requires more than just reducing its symptoms.
6. The human body is a network of multiple organs that each actively communicate with the heart.
7. Non-invasive metabolic imaging provides a novel approach to guide treatment of patients with pressure overload-induced heart failure.
8. Research is like a box of chocolate; you never know what you're gonna get. *(Adapted from Forrest Gump)*
9. Teamwork makes the Dream work. *(John C. Maxwell)*