UNIVERSITY OF COPENHAGEN

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My collaboration with Jakub began when he was a visiting scholar at the Harvard T.H. Chan School of Public Health. From the outset, it was clear that Jakub possessed a unique combination of qualities that would make him excel in research. His interests in heart failure and metabolomics were not only academically focused but also deeply personal, reflecting a genuine commitment to advancing our understanding of this complex disease. His motivation was unflagging, driving him to delve into unexplored territories that could hold potential for groundbreaking discoveries.

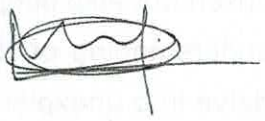
The thesis Jakub has completed is nothing short of a remarkable contribution to the field of cardiovascular diseases, particularly in the subdomain of heart failure. His decision to integrate metabolomics, a rapidly evolving field, into the complex milieu of heart failure was both innovative and brave. The approach of using Nightingale Health's nuclear magnetic resonance platform to quantify a wide array of metabolites exemplifies Jakub's dedication to rigor and detail. This tool allowed for an expansive and in-depth view, which substantially advances our understanding beyond what traditional markers can offer.

One of the highlights of Jakub's thesis is its prospective design. Instead of limiting the study to cross-sectional observations, he made sure to establish prospective links between metabolite levels and the incidence of heart failure. This design adds a predictive dimension to the study that could inform both early diagnosis and potential treatment modalities.

Jakub's identification of specific metabolites that are inversely or positively associated with heart failure risk not only enriches our scientific understanding but also opens up potential avenues for therapeutic intervention. While the study remains observational, its robustness sets a solid foundation for future experimental studies, which could establish causality and validate these metabolites as effective biomarkers or treatment targets.

Collaborating with Mr. Morze has been an intellectually rewarding experience. His meticulous approach, combined with an indefatigable passion for the subject, has

resulted in a thesis that sets a high standard for future research in this area. I am confident that his work will serve as a significant stepping stone in the ongoing efforts to understand, diagnose, and manage heart failure more effectively. This thesis is a testament not only to the current state of cardiovascular diseases research but also to Jakub's exceptional capabilities as a researcher. It has been an absolute pleasure to work with him I look forward to continued collaboration with him and have no doubt that he will continue to make impactful contributions to medical science and be an excellent doctor and researcher.



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