

Propositions accompanying this thesis

Unravelling Obesity and Fatty Liver Disease Mechanisms; Insights from Population-Based Omics Studies

- 1- Plasma levels of circulatory microRNAs associated with obesity-related traits may help in a better understanding of the underlying mechanisms and could serve as biomarker potential for obesity-related diseases (this thesis)
- 2- Circulatory microRNAs may serve as promising biomarkers for fatty liver diseases in population-based study (this thesis)
- 3- Epigenetic could provide insights into the mechanism of action involved between alcohol consumption and alterations in gene expression in alcohol-related diseases (this thesis)
- 4- Plasma proteomic levels help better understanding of the pathophysiology of FLD and the disease progression into fibrosis (this thesis)
- 5- Circulatory metabolites may help to elucidate metabolic pathways involved in fatty liver disease pathogenesis and might be considered as potential biomarkers for disease diagnosis (this thesis)
- 6- As a central secretory organ of the human body, the liver produces the majority of plasma proteins with a direct function in the circulation, which is why many of the classical biomarkers for liver dysfunction are in this category (Niu, L et al., Molecular systems biology. 2019)
- 7- Fat mass particularly android-fat-to-gynoid-fat is a better predictor for NAFLD probability in both sexes in the general population, which is strongly associated with NAFLD (Alferink, L.J.M et al., J bone and mineral research. 2019)
- 8- The rapid advancement of high-throughput technologies and computational tools is poised to revolutionize medicine by enabling in-depth analysis of biological systems at multiple omics levels, offering new possibilities for personalized and preventive healthcare (Babu, M et al, Molecular & Cellular Proteomics, 2023)
- 9- Health is not valued till sickness comes. (Thomas Fuller)
- 10- In the middle of every difficulty lies opportunity. (Albert Einstein)
- 11- Never give up on your dreams, no matter how painful and difficult your journey is.

Yasir Jameel Abozaid, 2024