

# QMDB – Quantitative metabolomics database

Linking biological information to standardized metabolomics data

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## Standardizing study design



Normal ranges  
for metabolites



Reference  
control groups



In silico  
studies



Global data  
network

# QMDB advances metabolomics research

Accessing control groups or selecting samples of an appropriate healthy population is often challenging. The QMDB combines sample metadata with quantitative reference ranges based on standardized biocrates technology. Whether saving valuable resources by reducing the need for additional control samples, or confirming metabolomics hypotheses, the QMDB resolves questions about normal metabolite ranges and advances metabolomics research.



## Normal ranges for metabolites

- ▶ Ranges for over 620 metabolites providing insights into metabolomes of healthy subgroups
- ▶ Characterize your own control groups by comparing them to the QMDB and identify outliers



## Reference control groups

- ▶ Include reference ranges into your data analysis and interpretation
- ▶ Achieve greater insight, without the need for additional controls



## In silico studies

- ▶ Identify novel metabolic signatures within QMDB subgroups
- ▶ Formulate and test metabolomic hypotheses before starting experiments

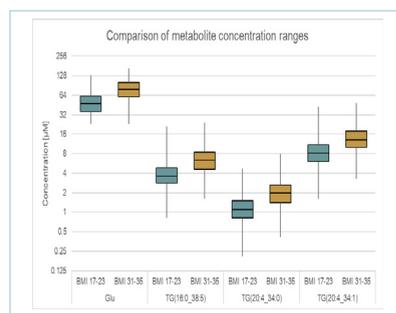


## Global data network

- ▶ Compare own results with data generated in the community
- ▶ Contribute to the growing database

## QMDB offers flexible selection criteria

The QMDB contains metabolite concentration ranges detected in human plasma samples from healthy individuals using the MxP® Quant 500 and the AbsoluteIDQ® p180 assays. Included subjects were undiagnosed of any diseases and therefore are considered a healthy reference. Many filter options are available (including demographics, BMI, lifestyle choices, etc.) to precisely match your reference group of interest.



Restriction to own samples  
Restrict assay Search...  
Use samples present at date  
Sex  
Age (years) between 20 and 65  
BMI between 20 and 25  
Fasting status: fasted  
Ethnicity/race Search...  
Fitness Search... American Indian or Alaska Native  
Alcoholic drink Search... Asian  
Black or African American  
Hispanic or Latino  
Smoking Search... Native Hawaiian or Other Pacific Islander  
White or Caucasian  
Nutrition Search...



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