Achieve Discovery and Biomarker Analysis Simultaneously

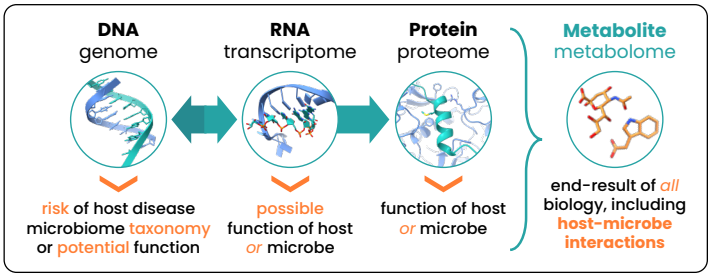
with Semi-Targeted Metabolomics

AROME

Access biological function by profiling metabolites: don't settle for possible

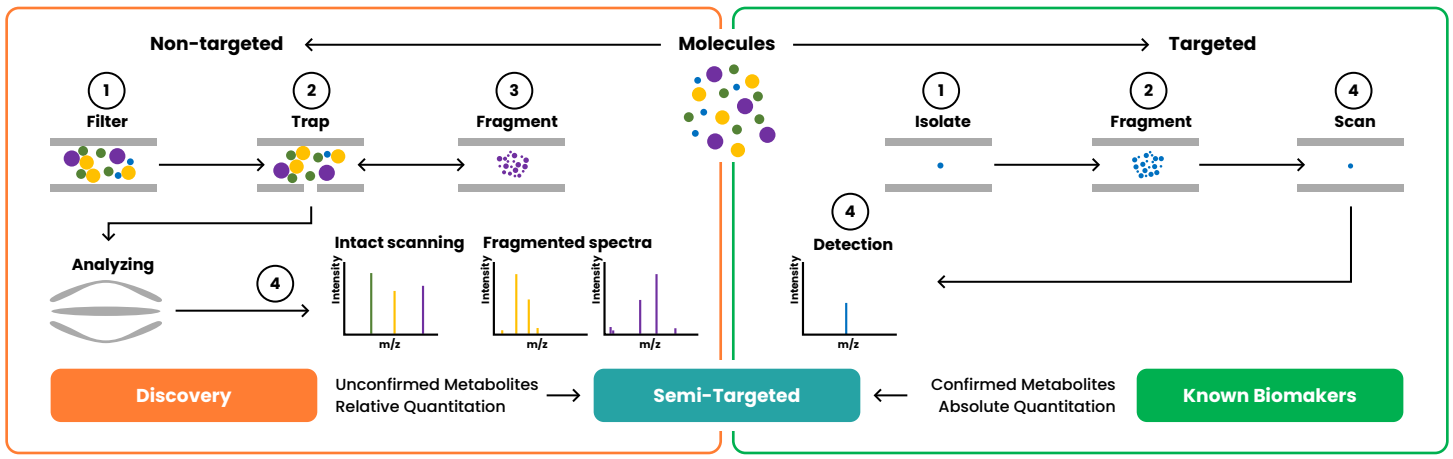
To identify biological mechanisms of action or elucidate biomarkers, you can't afford to settle for risk scores or potential functionality. You need a technology that integrates genetics, lifestyle, and environment in any sample type, while offering the ability to make discoveries and measure quantitative biomarkers.

Across any application area or disease indication, semi-targeted metabolomics and multiomic data integration solutions from Arome Sciences will provide you with the data you need to bring your product to market.

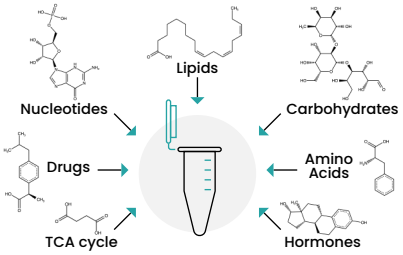


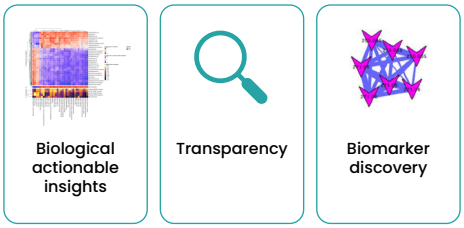
Semi-targeted metabolomics combines discovery and biomarker capabilities into one powerful technology for multiomic integration and clinical development

When designing a metabolomics study, scientists typically decide between platforms that enable discovery and those that quantitatively measure biomarkers. Arome has pioneered a unique semi-targeted approach, offering both discovery and biomarker analysis in the same experiment.



Let Arome help you turn specimens into insights





Up to 1250 microbiome and human-related metabolites (Level 1)
Up to 6500 IDs (Level 2)

State-of-the-art metabolomics
Biomarker elucidation, analysis, & microbiome multiomics integration bioinformatics

Drug & consumer product development and clinical biomarkers

frontiers in Pediatrics — Bajorek (2022) *Front Pediatr.* 9:795970.

Absolute quantitation of primary HMOs in infant stool demonstrated that their complete metabolism only occurs in the presence of an administered probiotic.

frontiers in Medicine — Li (2023) *Front Med.* 10:1165980.

Metabolites correlated strongly with microbiome sequencing and clinical outcomes to explain how prebiotic skincare products improved dry skin.

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Discover and validate metabolomic biomarkers with a customizable data and analysis package that meets your needs and budget

We recognize that every study is different. Choose the metabolite coverage, specimen type, study design, and bioinformatics analysis you need to succeed. Costs are approximate, and the offerings list is not exhaustive. Metabolite annotations include:

- Known molecules (Level 1; mass, retention time, MS/MS): 1250 compound authentic standard library
- Known molecules (Level 2; mass, MS/MS match to spectral library) typically IDs ≤10% of the 1000s of detected features
- Known and novel molecules (Level 3 & 4; propagated libraries and in silico prediction of MS/MS) typically IDs ≤30% and ≤80% of features with proposed structures and chemical class, respectively

Discuss a study design

	Explorer	Explorer Plus	Pathfinder	Cartographer
MS Methods				
LC-MS	1 (Positive or Negative)	1 (Positive & Negative)	2 (Positive & Negative)	3 (Positive & Negative)
GC-MS		1 (Derivitized)	1 (Derivitized or Non-Derivitized)	2 (Derivitized & Non-Derivitized)
Metabolite Classes				
Steroids & Bile Acids Nucleic Acids Vitamins & Cofactors Xenobiotics Polar Lipids Peptides & Analogues	✓	✓	✓	✓
Fatty Acids Amino Acids & Amines Small Saccharides & Alcohols Short-Chain Fatty Acids		✓	✓	✓
Larger Lipids Polysaccharides & Polyalcohols Energetics			✓	✓
Volatiles Terpenes & Terpenoids Esters Phenols, Benzyls, & Naphthalenes Thiols				✓
Sample Types				
Whole Blood Serum/Plasma Feces Skin Urine	✓	✓	✓	✓
Cell Culture			✓	✓
Any MS-Compatible				✓
Study Design, Data, & Interpretation				
Pilot Study			✓	✓
Raw Data Feature Table with Annotations Molecular Network PCoA Publication-Ready Methods	✓	✓	✓	✓
Statistical Analysis (e.g., Supervised Learning & Multivariate)			✓	✓
In Silico Metabolite Prediction				✓
Pathway Analysis				✓
Additional Bioinformatics			✓	✓
Multiomics Integration Analysis			✓	✓
Approximate Cost (per Sample)	**$200–$300**	**$500**	**$600**	**$800**

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