MASS/FLOW CYTOMETRY DATA ANALYSIS

AltraBio offers comprehensive services for flow and mass cytometry data analysis from gating to cross-sample analysis. To maximise the value of your experimental results and to speed up your process, AltraBio’s offer covers the entire data analysis workflow from discovery and diagnostic studies to optimization of population identification processes.

Too much data to deal with?

- Immunophenotyping
- Identification of cell populations to diagnose a disease and/or its evolution
- Identification & description of populations responding to a therapy
- Identification of therapeutic targets

Too many samples to gate?

- Gating by clustering & dimension reduction
  
  SPADE  
  ViSNE  
  FlowSOM

Advantages:

- Time saving (fast, 24/7)
- Standardisation of the gating process
- Improved reliability (reproducibility & accuracy) by removing the variability of manual gating
- Adapted to deep and complex gating strategies
- Automation of quality controls and outlier identification

www.altrabio.com
ContactUs@altrabio.com
OMICS DATA ANALYSIS

AltraBio’s team implements and develops state-of-the-art and innovative methods for all kinds of omics studies (genomics, transcriptomics, proteomics, …) in both preclinical and clinical contexts with the aim of characterizing new models, molecular mechanisms/markers of pathology, biological ways of interest (oxydative stress, immune response,…), effect of treatments at different doses, microbiotes.

AltraBio’s workflow

Generated Data
From your own providers or from our partners

Biological questions

What we need

What we do

What we deliver

Implementation of biostatistical and biomathematical methods
State-of-the-art methods/Customized statistical models/Classifier analyses

AltraBio’s added value

• Cutting-edge data analysis methodologies
• Extensive quality controls
• Tailor-made statistical analyses
• Functional analysis / pathway identification
• Biological interpretation
• Comprehensive report
• Visualisation tool to interact with your results

Comprehensive report
Analysis methods & results/Publication quality images/Oral presentation of the reports

Access to WikiBioPath
Web interface for visualization of the results

www.altrabio.com
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Subcontracts
Hundreds of analyses performed with major pharmaceutical, biotechnology & cosmetics companies

Collaborative projects
SME partner for your grant applications (ANR, La Ligue, FUI, H2020, …)
- PREDIVAC & MEMOIRE Consortia -

Why AltraBio?

• 12 years of expertise in the implementation and development of bioinformatic tools (hundreds analyses performed) for:
  • life science data analysis/mining in immunology, oncology, dermo-cosmetology
  • biological interpretation of results
  • databases generation

• A multidisciplinary team (bioinformaticians/mathematicians and biologists/physicians)

• A step-by-step approach with unsupervised and supervised analysis to adapt the analysis process to your problem

• WikiBioPath & Cytautomaton, proprietary tools allowing you to interact with your results & automate the application of your gating strategies

• Time & cost effective services

• Our disponibility and flexibility

They already trust us

Recent publications...


MMP-7 is a predictive biomarker of disease progression in patients with idiopathic pulmonary fibrosis. Bauer Y, White ES, de Bernard S, … ERJ Open Res. 2017 Mar; 3(1).