ImmPort Galaxy
Facilitating analysis and meta-analysis of flow cytometry data

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ImmPort Team
NGC
Special Thank you

Galaxy Team
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What is ImmPort?

ImmPort is funded by the NIH, NIAID and DAIT in support of the NIH mission to share data with the public. Data shared through ImmPort has been provided by NIH-funded programs, other research organizations and individual scientists ensuring these discoveries will be the foundation of future research.
What is ImmPort?
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Shared Data **publicly available** for data (re-)analysis

318 Studies released
50,422 Subjects
1,398 Experiments

- Clinical trials
- Transplantation studies
- Microbiome study data
- HIPC data
- Response to vaccination studies
- and many, many more.

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Flow Cytometry Data
Flow Cytometry – Typical analysis workflow

- QC
- Compensation
- Transformation
- Gating
- Clustering
- Population identification
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FlowJo

Cytobank

Easy GUI

FREE!

(needz skillz)
Welcome to ImmPort Galaxy!

Welcome to a new release of ImmPort Galaxy!
The Galaxy framework was upgraded to 18.05! You might notice some changes in how things look.
Highlights:
- You can now tag your data with propagating hashtags - check out these two videos (both under a minute) explaining how to do this with datasets and with collections.
- There's also a new set of visualizations, including Cytoscape that you can check out by clicking on 'Visualize' on the top navigation bar.
- A new series of tools has been added to support meta-analysis of FCS files with MetaCyto. A few tools have been upgraded as well. Please make sure to update your workflows!
ImmPort Galaxy

Introduced at GCC2016

16.07 framework

15 tools

QC

Compensation / Transformation

Gating

Clustering

Population identification

Phenotype Correlation Analysis
Introduced at GCC2016
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GCCBOSC 2018
18.05 framework
39 tools

ImmPort Galaxy

QC

Compensation / Transformation

Gating
Clustering

Population identification

Phenotype Correlation Analysis
This Galaxy instance has been configured such that only users who are logged in may use it. If you don’t already have an account, you may create one.

Please enter your credentials to access ImmPort Galaxy resources.

Note these are specific to ImmPort Galaxy and do not grant access to other ImmPort resources or Galaxy instances.

User Name / Email Address

Password

By checking the “I Accept” box below, you confirm that you have read and accept all the terms and conditions without limitation of the User Agreement for the NIAID Immunology Database and Analysis Portal.

I Accept

Log in

Forgot password?
Reset here
MetaCyto

Pre-processing
- Check Marker Panels
- Update Panels
- Clustering
- Phenotype Correlation analysis

Harmonize FCS files
- MetaCyto Pre-processing
- Check Marker Panels
- Auto-Clustering
- Guided Search

Plot Histograms
- Phenotype Correlation Analysis
  - All Clusters
- Phenotype Correlation Analysis
  - Individual Clusters

FlowSOM

ImmPort Galaxy main updates – analysis tools