

The background features a network of blue spheres connected by white rods. Each sphere contains a different image: a globe, a building, a man's face, a DNA helix, a chemical structure, a woman in a lab coat, and a classical building. The text is overlaid on a semi-transparent white box in the center.

tranSMART Demonstration

Peter Rice, i2b2 tranSMART Foundation

Overview

- Brief history of tranSMART
- Precision Medicine: The Role of i2b2 and tranSMART
- What does the i2b2 tranSMART Foundation do?
- The importance and role of an Open Source “Community”
- i2b2 tranSMART Governance model
 - Board of Directors
 - Project Management Committees (PMC)
 - Partnership Program
 - Membership Program
- PMC Roadmaps
 - tranSMART – Peter Rice
 - i2b2 – Shawn Murphy
 - i2b2 tranSMART – Paul Avillach

The History of tranSMART

- In 2008: J&J saw a significant challenge in the lack of translatability of preclinical models into meaningful biological knowledge
- They created tranSMART – “a knowledge management platform that would provide access to all R&D data as well as advanced analytics”
- It utilized components of the i2b2 (Informatics for Integrating Biology and the Bedside; <http://www.i2b2.org>) and incorporated search capabilities
- A goal was to release the software as open source to encourage precompetitive data sharing among pharmaceutical entities and academic institutions



tranSMART Architecture

Data Sources



Relational Databases



Flat Files



Spreadsheets

ETL



Data Extraction



Data Curation



Data Transformation



Data Integration

Databases



Relational Datawarehouse



Genome Datawarehouse



Clinical Datawarehouse



Imaging Datawarehouse

tranSMART API Layer

Data Analytics



Data Exploration



Data Visualization

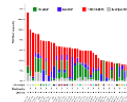


Data Mining

Applications



Cohort Selection and Analysis



Mutation Analysis



Biomarker Discovery

tranSMART: More than just a Platform

an approach to enable translational science

Databases



Relational
Datawarehouse



Genome
Datawarehouse



Clinical
Datawarehouse



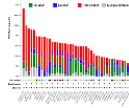
Imaging
Datawarehouse

tranSMART API Layer

Applications



Cohort
Selection and
Analysis



Mutation
Analysis



Biomarker
Discovery

tranSMART – A platform and Community

- Open-source and open-data translational biomedical research community
- Scientists, Developers, Service Providers, Clinicians



Community

File Edit View History Bookmarks Tools Help

transSMART v16.2

postgres-test.transmartfoundation.org/transmart/RWG/index

Search

Export Cart

Browse Analyze Sample Explorer Gene Signature/Lists GWAS Upload Data Utilities

Active Filters: [Filter] [Clear]


Program Explorer

- Etirik Asthma
- Etirik Rheumatoid Arthritis
- Public Studies
- Test Studies

Welcome to transSMART for the transSMART Foundation demo and test site.

The Browse window lets you search and dive into the information contained in transSMART, including Programs, Studies, Assays and the associated Analyses Results, Subject Level Data and Raw Files. This is also the location to export files stored in transSMART. Note: to edit the Program, Study, or Assay information, you must be logged in as an Administrator.

The Analyze window lets you perform a number of analyses either on studies selected in the Browse window, or from the global search box located in the top ribbon of your screen. More information about the analyses you can perform is available in the "Help" section of the "Utilities" menu.

 + transSMART Foundation

Report a problem

File Edit View History Bookmarks Tools Help

Dataset Explorer

postgres-test.transmartfoundation.org/transmart/datasetExplorer/index

Search

Active Filters Filter Clear

Comparison Summary Statistics Grid View Advanced Workflow SmartR Data Export Export Jobs Workspace Image View MetaCore Genome Browser

Subst 1 Subst 2

Include Exclude Clear Panel

DRAG YOUR CONCEPTS HERE

DRAG YOUR CONCEPTS HERE

Save Comparison Clear All Panels and Analysis

transSMART + transSMART Foundation

Report a problem

Navigate Terms

- Across Trials
- eTRIKS Asthma
- eTRIKS Rheumatoid Arthritis
 - Andreas(2008) GSE10024 (6)
 - Yarilina(2008) GSE10500 (8)
- Private Studies
- Public Studies
- TCGA Studies
 - BRCA Breast Invasive Carcinoma (1098)
 - LUAD Lung Adenocarcinoma (568)
 - OV Ovarian Cancer (606)
- Test Studies
 - test_GSE4382_incremental (167)
 - test_mannheim_with_samples (30)
 - test_mass_spec_proteomics (17)
 - test_metabolomics (24)
 - test_miRNAseq_Witten_et_al_2010 (31)
 - test_qPCR_miRNA_GSE37424 (4)
 - test_qPCR_miRNA_GSE37425 (0)
 - test_qPCR_miRNA_GSE42468 (2)
 - test_qPCR_miRNA_GSE49520 (4)
 - test_rbm_adni (327)
 - test_RNAseq_GSE48213 (86)
 - test_serial_high_dim (2)
 - test_serial_high_dim_licerca (22)

File Edit View History Bookmarks Tools Help

Dataset Explorer

postgres-test.transmartfoundation.org/transmart/datasetExplorer/index

Search

Comparison Summary Statistics Grid View Advanced Workflow SmartR Data Export Export Jobs Workspace Image View MetaCore Genome Browser

Browse Analyze Sample Explorer Gene Signature/Lists GWAS Upload Data Utilities

Active Filters

Navigate Terms

- Across Trials
- eTRIKS Asthma
- eTRIKS Rheumatoid Arthritis
- Private Studies
- Public Studies
 - Acute Lymphoblastic Leukemia_Kirschner_Schwabe_GSE4...
 - Asthma_Berczek_GSE34466 (62)
 - Asthma_Msior_GSE13168 (54)
 - Asthma_Tatsiou_GSE31773 (20)
 - Brain Cancer_Phillips_GSE4271 (80)
 - Breast Cancer_Ivshina_GSE4922 (289)
 - Breast Cancer_Minu_GSE5327 (58)
 - Breast Cancer_Pawitan_GSE1456 (159)
 - Breast Cancer_Sorlie_GSE4382 (167)
 - Complete Genomics_Breast Cancer Blood Pair (2)
 - COPD_Bhattacharya_GSE8581 (58)
 - Biomarker Data (58)
 - AllyMetric Human Genome U133 Plus 2.0 Array (58)
 - Lung (58)
 - Endpoints (58)
 - Diagnosis (58)
 - FEV1 (58)
 - Forced Expiratory Volume Ratio (58)
 - Subjects (58)
 - Lung Disease (58)
 - chronic obstructive pulmonary disease (17)
 - control (9)
 - not specified (22)
 - Organism (58)
 - Race (58)
 - Sex (58)
 - female (30)
 - male (28)
 - Age (58)
 - Height (inch) (58)
- HAPMAP (670)
 - Melanoma_Uveal_Ganglion_GSE27831 (29)
 - Pсориаз_Zaba_GSE11903 (89)
 - Pulmonary Sarcoidosis_Ho_GSE19976 (15)
 - Rheumatoid Arthritis_Takeuchi_GSE20690 (68)

Subset 1


Include Exclude

DRAG YOUR CONCEPTS HERE

Subset 2

Include Exclude

DRAG YOUR CONCEPTS HERE

 + transSMART Foundation

Report a problem

File Edit View History Bookmarks Tools Help

Dataset Explorer

postgres-test.transmartfoundation.org/transmart/datasetExplorer/index

Search


Active Filters **Grid** Filter Clear

Comparison Summary Statistics Grid View Advanced Workflow Smart Data Export Export Jobs Workspace Image View MetaCore Genome Browser

Subset 1
 Include Exclude Clear Panel
 chronic obstructive pulmonary disease
 AND
 Include Exclude Clear Panel
 DRAG YOUR CONCEPTS HERE

Subset 2
 Include Exclude Clear Panel
 control
 AND
 Include Exclude Clear Panel
 DRAG YOUR CONCEPTS HERE

Save Comparison Clear All Panels and Analysis

 + transSMART Foundation

Navigate Terms
 Across Trials
 eTRIKS Asthma
 eTRIKS Rheumatoid Arthritis
 Private Studies
 Public Studies
 Acute Lymphoblastic Leukemia_Kirschner_Schwabe_GSE41
 Asthma_Barczak_GSE34466 (63)
 Asthma_Misior_GSE13168 (54)
 Asthma_Tetsiou_GSE1773 (20)
 Brain Cancer_Philips_GSE4271 (80)
 Breast Cancer_Ivshina_GSE4922 (209)
 Breast Cancer_Minn_GSE5327 (58)
 Breast Cancer_Pawitan_GSE1456 (159)
 Breast Cancer_Sorlie_GSE4382 (167)
 Complete Genomics_Breast Cancer Blood Pair (2)
 COPD_Shattacharya_GSE581 (58)
 Biomarker Data (53)
 Affymetrix Human Genome U133 Plus 2.0 Array (58)
 Lung (58)
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 Melanoma Uveal_Gangemi_GSE27831 (29)
 Psoriasis_Zaba_GSE11903 (89)
 Pulmonary Sarcoidosis_Ho_GSE19976 (15)
 Rheumatoid Arthritis_Takeuchi_GSE20690 (68)

Report a problem

Dataset Explorer

postgres-test.transmartfoundation.org/transmart/datasetExplorer/index

Active Filters: **SPD** Filter Clear

Navigation Terms

- Across Trials
- eTRIKS Asthma
- eTRIKS Rheumatoid Arthritis
- Private Studies
- Public Studies
 - Acute Lymphoblastic Leukemia_Kirschner_Schwabe_GSE4
 - Asthma_Barczak_GSE34466 (63)
 - Asthma_Misior_GSE13168 (54)
 - Asthma_Titsiou_GSE31773 (20)
 - Brain Cancer_Phillips_GSE4271 (80)
 - Breast Cancer_Yehina_GSE4922 (289)
 - Breast Cancer_Minm_GSE527 (58)
 - Breast Cancer_Pawitan_GSE1456 (159)
 - Breast Cancer_Sorlie_GSE4382 (167)
 - Complete Genomics_Breast Cancer Blood Pair (2)
 - COPO_Bhattacharya_GSE8581 (58)
 - Biomarker Data (36)
 - Affymetrix Human Genome U133 Plus 2.0 Array (58)
 - Lung (58)
 - Endpoints (58)
 - Diagnosis (58)
 - 123 FEV1 (58)
 - 123 Forced Expiratory Volume Ratio (58)
 - Subjects (56)
 - Lung Disease (58)
 - chronic obstructive pulmonary disease (17)
 - abc control (19)
 - abc not specified (22)
 - Organism (58)
 - Race (58)
 - Sex (58)
 - abc female (30)
 - abc male (28)
 - 123 Age (58)
 - 123 Height (inch) (58)
 - HAPMAP (670)
 - Melanoma_Overal_Cangemi_GSE27831 (29)
 - Prioritis_Zaba_GSE11903 (99)
 - Pulmonary Sarcoidosis_Ho_GSE19976 (15)
 - Rheumatoid Arthritis_Takeuchi_GSE20690 (68)

Comparison Summary Statistics Grid View Advanced Workflow SmartR Data Export Export Jobs Workspace Image View MetaCore Genome Browser

Summary Statistics

Query Summary for Subset 1
(Public Studies|Public Studies|COPO_Bhattacharya_GSE8581|Subjects|Lung Disease|chronic obstructive pulmonary disease)

| Subject Totals | | |
|----------------|------|----------|
| Subset 1 | Both | Subset 2 |
| 17 | 0 | 19 |

Age

Sex

Query Summary for Subset 2
(Public Studies|Public Studies|COPO_Bhattacharya_GSE8581|Subjects|Lung Disease|control)

| Subject Totals | | |
|----------------|------|----------|
| Subset 1 | Both | Subset 2 |
| 17 | 0 | 19 |

Age

Sex

Report a problem



Dataset Explorer

postgres-test.transmartfoundation.org/transmart/datasetExplorer/index

Active Filters: [lung](#) [Filter](#) [Clear](#)

Comparison Summary Statistics Grid View Advanced Workflow SmartR Data Export Export Jobs Workspace Image View MetaCore Genome Browser

Analysis of Lung Disease

No χ^2 test calculated: subsets are disjoint

| Category | Subset 1 (n) | Subset 1 (%) |
|---------------------------------------|--------------|--------------|
| chronic obstructive pulmonary disease | 17 | 100.0 % |
| control | 0 | 0.0 % |
| not specified | 0 | 0.0 % |

| Category | Subset 2 (n) | Subset 2 (%) |
|---------------------------------------|--------------|--------------|
| chronic obstructive pulmonary disease | 0 | 0.0 % |
| control | 19 | 100.0 % |
| not specified | 0 | 0.0 % |

Analysis of chronic obstructive pulmonary disease

*Public Studies*COPD_Bhattacharya_GSE8581/Subjects/Lung Disease/chronic obstructive pulmonary disease/

No χ^2 test calculated: subsets are disjoint

| Category | Subset 1 (n) | Subset 1 (%) |
|---------------------------------------|--------------|--------------|
| chronic obstructive pulmonary disease | 17 | 100.0 % |
| control | 0 | 0.0 % |
| not specified | 0 | 0.0 % |

| Category | Subset 2 (n) | Subset 2 (%) |
|---------------------------------------|--------------|--------------|
| chronic obstructive pulmonary disease | 0 | 0.0 % |
| control | 19 | 100.0 % |
| not specified | 0 | 0.0 % |

Analysis of control

*Public Studies*COPD_Bhattacharya_GSE8581/Subjects/Lung Disease/control/

No χ^2 test calculated: subsets are disjoint.

Report a problem

Dataset Explorer

postgres-test.transmartfoundation.org/transmart/datasetExplorer/index

Search

Comparison Summary Statistics Grid View Advanced Workflow SmartR Data Export Export Jobs Workspace Image View MetaCore Genome Browser

Active Filters: Filter Clear

Save to PDF

Analysis

- aCGH Survival Analysis
- Box Plot with ANOVA
- Correlation Analysis
- Frequency Plot for aCGH
- Group Test for aCGH
- Group Test for RNASeq
- Heatmap
- Hierarchical Clustering
- IC50
- K-Means Clustering
- Line Graph
- Logistic Regression
- Marker Selection
- PCA
- Scatter Plot with Linear Regression
- Survival Analysis
- Table with Fisher Test
- Waterfall
- GWAS Plot

attacharya_GSE858 (Subjects/Lung Disease (chronic obstructive pulmonary disease))
attacharya_GSE858 (Subjects/Lung Disease (control))

Navigate Terms

- Across Trials
- eTRIKS Asthma
- eTRIKS Rheumatoid Arthritis
- Private Studies
- Public Studies
- Acute Lymphoblastic Leukemia_Kirschner_Schwabe_GSE4
- Asthma_Barczak_GSE34466 (63)
- Asthma_Misior_GSE13168 (54)
- Asthma_Tatsiou_GSE31773 (20)
- Brain Cancer_Phillips_GSE4271 (80)
- Breast Cancer_Iyushina_GSE4922 (289)
- Breast Cancer_Minn_GSE5327 (58)
- Breast Cancer_Pewitan_GSE1456 (159)
- Breast Cancer_Sorlie_GSE4382 (167)
- Complete Genomics_Breast Cancer Blood Pair (2)
- COXP_ghattacharya_GSE8581 (58)
 - Biomarker Data (58)
 - Affymetrix Human Genome U133 Plus 2.0 Array (58)
 - Lung (58)
 - Endpoints (58)
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 - male (28)
 - Age (58)
 - Height (inch) (58)
 - HAPMAP (670)
 - Melanoma_Uveal_Gangemi_GSE27831 (29)
 - Psoriasis_Zaba_GSE11903 (89)
 - Pulmonary Sarcoidosis_Ho_GSE19976 (15)
 - Rheumatoid Arthritis_Takeuchi_GSE20690 (68)

Report a problem

Dataset Explorer

postges-test.transmartfoundation.org/transmart/datasetExplorer/index

Search

Active Filters: **uncd** Filter Clear

Comparison Summary Statistics Grid View Advanced Workflow SmartR Data Export Export Jobs Workspace Image View MetaCore Genome Browser

Save to PDF

Navigate Terms

- Across Trials
- eTRIKS Asthma
- eTRIKS Rheumatoid Arthritis
- Private Studies
- Public Studies
- Acute Lymphoblastic Leukemia_Kirschner_Schwabe_GSE4698
- Asthma_Barczak_GSE34466 (63)
- Asthma_Misior_GSE13168 (94)
- Asthma_Talasila_GSE31773 (20)
- Brain Cancer_Phillips_GSE4271 (40)
- Breast Cancer_Ivahina_GSE4922 (289)
- Breast Cancer_Minm_GSE5327 (58)
- Breast Cancer_Pawitan_GSE1456 (159)
- Breast Cancer_Sorlie_GSE4382 (167)
- Complete Genomics_Breast Cancer Blood Pair (2)
- COPO_Shattacharya_GSE5581 (56)
- Biomarker Data (58)
 - Affymetrix Human Genome U133 Plus 2.0 Array (58)
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 - Lung Disease (58)
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 - control (13)
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 - male (28)
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 - Height (inch) (58)
 - HAPMAP (670)
 - Melanoma Uveal_Gangemi_GSE27831 (29)
 - Psoriasis_Zaba_GSE11903 (89)
 - Pulmonary Sarcoidosis_Ho_GSE19976 (15)
 - Rheumatoid Arthritis_Takeuchi_GSE20690 (68)

FEV1

ANOVA Result

| | |
|---------|----------|
| p-value | 8.29e-07 |
| F value | 36.2 |

| Group | Mean | n |
|---------------------------------------|------|----|
| chronic obstructive pulmonary disease | 1.27 | 17 |
| control | 2.62 | 19 |

Report a problem

Dataset Explorer

postgres-test.transmartfoundation.org/transmart/datasetExplorer/index

Search

Active Filters: 0/11 Filter Clear

Comparison Summary Statistics Grid View Advanced Workflow **SmartR** Data Export Export Jobs Workspace Image View MetaCore Genome Browser

SmartR - Dynamic Data Visualization and Interaction

Please select a workflow

Please select a workflow

Boxplot Workflow
Correlation Workflow
Heatmap Workflow
Icaconnector Workflow
Linegraph Workflow
Pathmapper Workflow
Volcanoplot Workflow

WARNING: No subsets have been selected Please go to the "Comparison" tab and select your subsets

Navigate Terms

- Across Trials
- eTRINIS Asthma
- eTRINIS Rheumatoid Arthritis
- Private Studies
- Public Studies
- Acute Lymphoblastic Leukemia_Kirschner_Schwabe_GSE4698
- Asthma_Barczak_GSE34466 (63)
- Asthma_Misior_GSE13168 (54)
- Asthma_Tajiri_GSE31773 (20)
- Brain Cancer_Phillips_GSE4271 (80)
- Breast Cancer_Ivshina_GSE4922 (289)
- Breast Cancer_Minn_GSE5327 (58)
- Breast Cancer_Pawitan_GSE1456 (159)
- Breast Cancer_Sorlie_GSE4382 (167)
- Complete Genomics_Breast Cancer Blood Pair (2)
- COPO_Shattacherya_GSE5581 (58)
- Biomarker Data (58)
 - Affymetrix Human Genome U133 Plus 2.0 Array (58)
 - Lung (58)
 - Endpoints (58)
 - Diagnosis (58)
 - 123 FEV1 (58)
 - 123 Forced Expiratory Volume Ratio (58)
 - Subjects (58)
 - Lung Disease (58)
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 - control (19)
 - not specified (22)
 - Organism (58)
 - Race (58)
 - Sex (58)
 - female (30)
 - male (28)
 - Age (58)
 - 123 Height (inch) (58)
 - HADM4P (70)
 - Melanoma_Uveal_Gangemi_GSE27831 (29)
 - Pneumonia_Zaba_GSE11903 (89)
 - Pulmonary Sarcoidosis_Ho_GSE19976 (15)
 - Rheumatoid Arthritis_Takeuchi_GSE20690 (68)

Report a problem



Dataset Explorer

postgres-test.transmartfoundation.org/transmart/datasetExplorer/index

File Edit View History Bookmarks Tools Help

Search

Active Filters: **and** Filter Clear

Comparison Summary Statistics Grid View Advanced Workflow SmartR Data Export Export Jobs Workspace Image View MetaCore Genome Browser

SmartR - Dynamic Data Visualization and Interaction

Subset 1:
INCLUDE (Public Studies\COPD_Bhattacharya_GSE8581\Subjects\Lung Disease\chronic obstructive pulmonary disease)

Subset 2:
INCLUDE (Public Studies\COPD_Bhattacharya_GSE8581\Subjects\Lung Disease\control)

Fetch Data Run Analysis

High Dimensional Variables Numerical Variables (optional) Categorical Variables

123 FEV1

Clear Window Clear Window Clear Window

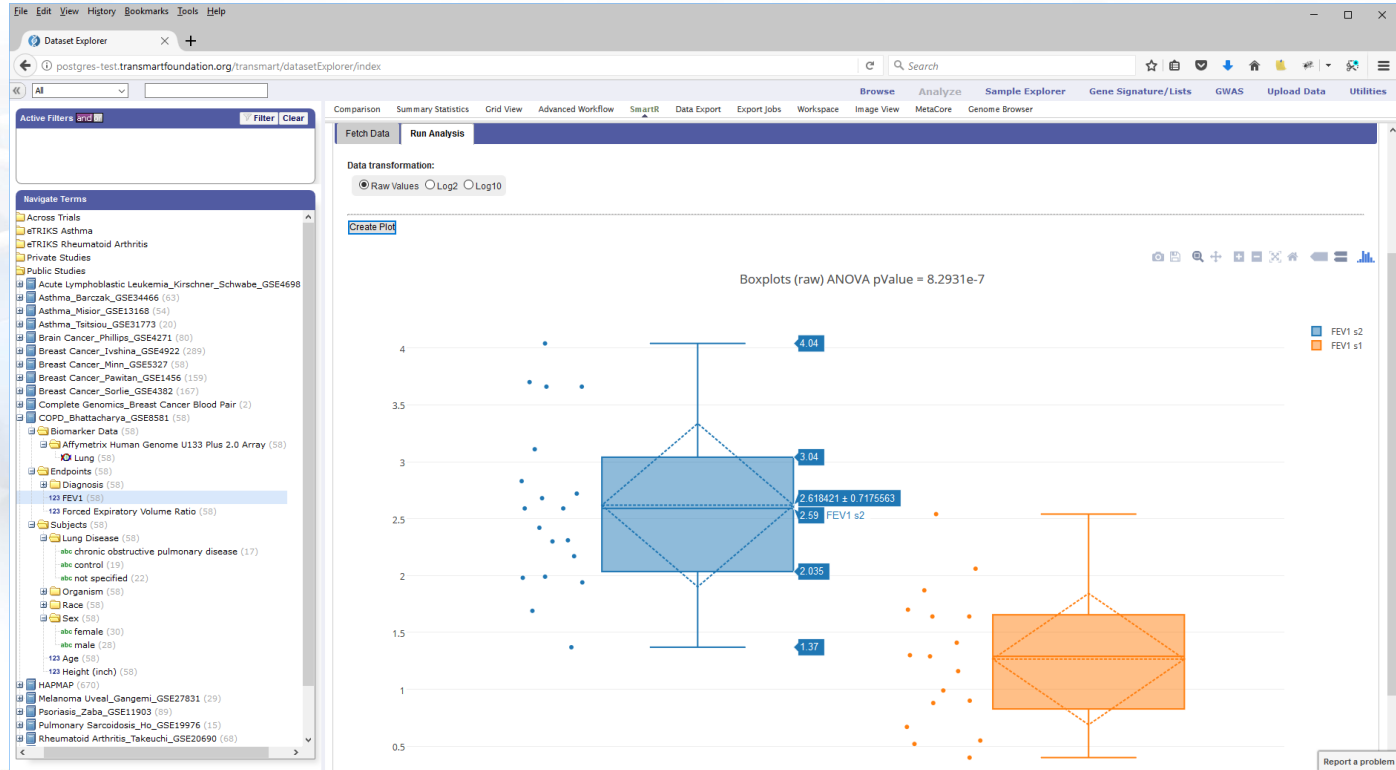
Select a biomarker: Biomarker can be a gene, pathway, miRD or UniProtID.

Fetch Data Error: No concepts selected!

Report a problem

Navigate Terms

- Across Trials
 - eTRJKS Asthma
 - eTRJKS Rheumatoid Arthritis
 - Private Studies
 - Public Studies
 - Acute Lymphoblastic Leukemia_Kirschner_Schwabe_GSE4698
 - Asthma_Barczak_GSE34466 (63)
 - Asthma_Misior_GSE13168 (54)
 - Asthma_Teplov_GSE31773 (30)
 - Brain Cancer_Phillips_GSE4271 (80)
 - Breast Cancer_Ivshina_GSE4922 (289)
 - Breast Cancer_Minu_GSE5327 (58)
 - Breast Cancer_Pawitan_GSE1456 (159)
 - Breast Cancer_Sorlie_GSE4382 (167)
 - Complete Genomics_Breast Cancer Blood Pair (2)
 - COPD_Bhattacharya_GSE8581 (58)
 - Biomarker Data (58)
 - Affymetrix Human Genome U133 Plus 2.0 Array (58)
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 - Age (58)
 - Height (inch) (58)
 - HAPMAP (670)
 - Melanoma Liveal_Gangemi_GSE27831 (29)
 - Psoriasis_Zaba_GSE11903 (89)
 - Pulmonary Sarcoidosis_Ho_GSE19976 (15)
 - Rheumatoid Arthritis_Takeuchi_GSE20690 (68)



Dataset Explorer

postgres-test.transmartfoundation.org/transmart/datasetExplorer/index

Active Filters: **58** Filter Clear

Navigation Terms

- Across Trials
- eTRIKS Asthma
- eTRIKS Rheumatoid Arthritis
- Private Studies
- Public Studies
 - Acute lymphoblastic Leukemia_Kirschner_Schwabe_GSE41
 - Asthma_Barczak_GSE34466 (63)
 - Asthma_Misior_GSE13168 (54)
 - Asthma_Tsitsiou_GSE1773 (20)
 - Brain Cancer_Phillips_GSE4271 (80)
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 - Breast Cancer_Sorlie_GSE4382 (167)
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 - Affymetrix Human Genome U133 Plus 2.0 Array (58)
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 - Endpoints (58)
 - Diagnosis (58)
 - 123 FEV1 (58)
 - 123 Forced Expiratory Volume Ratio (58)
 - Subjects (53)
 - Lung Disease (58)
 - abc chronic obstructive pulmonary disease (17)
 - abc control (19)
 - abc not specified (22)
 - Organism (58)
 - Race (58)
 - Sex (58)
 - abc female (30)
 - abc male (28)
 - 123 Age (58)
 - 123 Height (inch) (58)
 - HAPMAP (70)
 - Melanoma_Uveel_Gangemi_GSE27831 (29)
 - Psoriasis_Zaba_GSE11903 (89)
 - Pulmonary Sarcoidosis_Ho_GSE19976 (15)
 - Rheumatoid Arthritis_Takeuchi_GSE20690 (68)

SmartR - Dynamic Data Visualization and Interaction

Heatmap Workflow Reset SmartR

Subset 1:
INCLUDE (Public Studies|COPD_Bhattacharya_GSE8591|Subjects|Lung Disease|chronic obstructive pulmonary disease)

Subset 2:
INCLUDE (Public Studies|COPD_Bhattacharya_GSE8591|Subjects|Lung Disease|control)

Fetch Data Preprocess Run Analysis

High Dimensional Variables (optional) Numerical Variables (optional) Categorical Variables

Drag at least 1 node(s) into the box

Clear Window Clear Window Clear Window

Select a biomarker: Biomarker can be a gene, pathway, miRD or UniProtID.

Fetch Data

Report a problem

Dataset Explorer

postgres-test.transmartfoundation.org/transmart/datasetExplorer/index

Search

Active Filters: **grid** Filter Clear

Comparison Summary Statistics Grid View Advanced Workflow SmartR Data Export Export Jobs Workspace Image View MetaCore Genome Browser

Subset 1:
INCLUDE (Public Studies/COPD_Bhattacharya_GSE8581/Subjects/Lung Disease/chronic obstructive pulmonary disease)

Subset 2:
INCLUDE (Public Studies/COPD_Bhattacharya_GSE8581/Subjects/Lung Disease/control)

Fetch Data Preprocess Run Analysis

High Dimensional Variables (optional) Numerical Variables (optional) Categorical Variables (optional)

Lung

Select a biomarker: Biomarker can be a gene, pathway, miRNA or UniProt.

Fetch Data Task complete! Go to the "Preprocess" or "Run Analysis" tab to continue.

| Plot | Labels | Subset 1 | Subset 2 |
|----------------------------|--|--|--|
| <p>Box plot node: Lung</p> | variableLabel:
node:
subset:
totalNumberOfValuesIncludingMissing:
numberOfMissingValues:
numberOfSamples:
min:
max:
mean:
standardDeviation:
q1:
median:
q3: | Affymetrix Human Genome U133 Plus 2.0 ArrayLung_s1
highDimensional_n0
s1
929458
0
17
-6.02506311950027
13.7585251320743
4.30012987800031
2.7538729129844
2.418514404607382
4.36853090836029
6.18013741567314 | Affymetrix Human Genome U133 Plus 2.0 ArrayLung_s2
highDimensional_n0
s2
1038806
0
19
-5.78450538825484
13.8686034817377
4.65571390088658
2.6390060184098
2.92379162576576
4.67153965141209
6.48222793924208 |

Report a problem

Dataset Explorer

postgres-test.transmartfoundation.org/transmart/datasetExplorer/index

Search

Active Filters: **And** Filter Clear

Comparison Summary Statistics Grid View Advanced Workflow SmartR Data Export Export Jobs Workspace Image View MetaCore Genome Browser

SmartR - Dynamic Data Visualization and Interaction

Heatmap Workflow Reset SmartR

Subset 1:
INCLUDE (Public Studies/COPD_Bhattacharya_GSE5581/Subjects/Lung Disease/chronic obstructive pulmonary disease)

Subset 2:
INCLUDE (Public Studies/COPD_Bhattacharya_GSE5581/Subjects/Lung Disease/control)

Fetch Data Preprocess Run Analysis

Show 100 of 54574 rows in total. (< 1000 is preferable)

Group columns by:
 Node Order Subject ID

I have read and accept the [GeneCards TOU](#)
 yes (use GeneCards) no (use EMBL EBI)

Ranking Criteria:

| | |
|---|---|
| <p>Expression variability</p> <input type="radio"/> Coefficient of variation
<input type="radio"/> Variance
<input type="radio"/> Range between max and min after excluding outliers | <p>Differential expression</p> <input type="radio"/> B-value/odds ratio
<input type="radio"/> p-value
<input checked="" type="radio"/> Adjusted p-value (method 'fdr')
<input type="radio"/> log fold-change
<input type="radio"/> T-statistic |
|---|---|

Expression level

Mean
 Median

Create Plot Capture SVG Download

Report a problem

Navigate Terms

- Across Trials
- eTRIKS Asthma
- eTRIKS Rheumatoid Arthritis
- Private Studies
- Public Studies
 - Acute Lymphoblastic Leukemia_Kirschner_Schwabe_GSE4
 - Asthma_Barczak_GSE34466 (63)
 - Asthma_Misior_GSE13168 (54)
 - Asthma_Tatsiou_GSE31773 (20)
 - Brain Cancer_Phillips_GSE4271 (20)
 - Breast Cancer_Ivchyna_GSE4922 (289)
 - Breast Cancer_Minn_GSE5327 (58)
 - Breast Cancer_Pawitan_GSE1456 (159)
 - Breast Cancer_Sorlie_GSE4382 (167)
 - Complete Genomics_Breast Cancer Blood Pair (2)
 - COPD_Bhattacharya_GSE5581 (58)
 - Biomarker Data (58)
 - Affymetrix Human Genome U133 Plus 2.0 Array (58)
 - Lung (58)
 - Endpoints (58)
 - Diagnosis (58)
 - 123 FEV1 (58)
 - 123 Forced Expiratory Volume Ratio (58)
 - Subjects (58)
 - Lung Disease (58)
 - abc chronic obstructive pulmonary disease (17)
 - abc control (19)
 - abc not specified (22)
 - Organism (58)
 - Race (58)
 - Sex (58)
 - abc Female (30)
 - abc male (28)
 - Age (58)
 - 123 Height (inch) (58)
 - HAPMAP (676)
 - Melanoma_Uveal_Gangemi_GSE27831 (29)
 - Psonasis_Zaba_GSE11903 (89)
 - Pulmonary Sarcoidosis_Ho_GSE19976 (15)
 - Rheumatoid Arthritis_Takeuchi_GSE20690 (68)

Dataset Explorer

postgres-test.transmartfoundation.org/transmart/datasetExplorer/index

Search

Browse Analyze Sample Explorer Gene Signature/Lists GWAS Upload Data Utilities

Comparison Summary Statistics Grid View Advanced Workflow SmartR Data Export Export Jobs Workspace Image View MetaCore Genome Browser

Active Filters: **Grid** Filter Clear

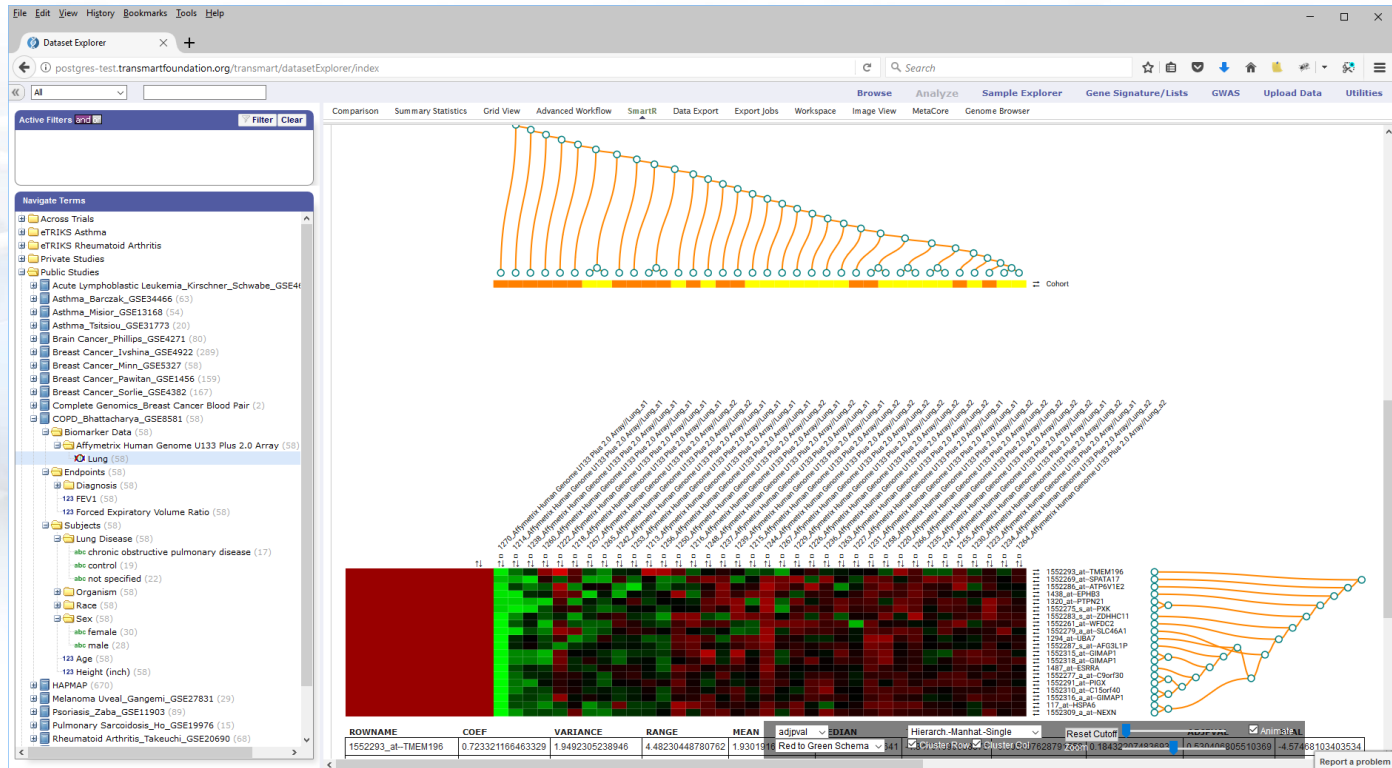
Navigate Terms

- Across Trials
- eTRIKS Asthma
- eTRIKS Rheumatoid Arthritis
- Private Studies
- Public Studies
 - Acute Lymphoblastic Leukemia_Kirschner_Schwabe_GSE4
 - Asthma_Barczak_GSE34466 (63)
 - Asthma_Misior_GSE13168 (54)
 - Asthma_Talbot_GSE31773 (50)
 - Brain Cancer_Phillips_GSE4071 (90)
 - Breast Cancer_Ivshina_GSE4922 (289)
 - Breast Cancer_Minn_GSE5327 (58)
 - Breast Cancer_Pawitan_GSE1456 (159)
 - Breast Cancer_Sorlie_GSE4382 (167)
 - Complete Genomics_Breast Cancer Blood Pair (2)
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 - FEV1 (58)
 - Forced Expiratory Volume Ratio (58)
 - Subjects (58)
 - Lung Disease (58)
 - chronic obstructive pulmonary disease (17)
 - not control (13)
 - not specified (22)
 - Organism (58)
 - Race (58)
 - Sex (58)
 - female (30)
 - male (28)
 - Age (58)
 - Height (inch) (58)

Log2: 5.51276312091736
z-Score: 2.558093391372
Column: 1222_Affymetrix Human Genome U133 Plus 2.0 Array/Lung_s1
Row: 1552293_at-TMEM196
PatientID: 1222
Subset: 1

| ROWNAME | COEF | VARIANCE | RANGE | MEAN | MEDIAN | TTEST | LOGFOLD | PVAL | ADJPVAL | BVAL |
|----------------------|-------------------|-------------------|-------------------|-------------------|---------------------|------------------|---------------------------|--------------------|-------------------|-------------------|
| 117_at-HSPA6 | 0.223096346396873 | 1.59373964487183 | 3.396784598628357 | 5.63822346423828 | 5.86199179557964 | 1.5550337915813 | 0.645003435501708 | 0.126528332272493 | 0.530406805510369 | -4.55941514648876 |
| 1294_at-LIBA7 | 0.138173761214897 | 0.981063382088515 | 2.66331865117386 | 7.16841192123455 | 7.24967087217577 | 1.76251912438889 | 0.61767899793334 | 0.0843684741411906 | 0.530406805510369 | -4.54243879537436 |
| 1320_at-PTPN21 | 0.319384122010144 | 1.99088295828737 | 4.44322498421356 | 4.41811218694862 | 4.75440204429711 | 1.53931135199038 | 0.693852966381118 | 0.130316125216508 | 0.530406805510369 | -4.56063215472244 |
| 1438_at-EPHB3 | 0.345873462319704 | 1.70575097404986 | 2.91401045169503 | 3.77607466406206 | 4.06051560748405 | 1.6066356810799 | 0.68192931546811 | 0.114714525425268 | 0.530406805510369 | -4.55535065712062 |
| 1487_at-ESRRA | 0.20078310550204 | 1.87230947244449 | 1.85229581641663 | 6.450140849856919 | 6.63274742578087 | 1.41117539339371 | 0.598800593444881 | 0.164662439860983 | 0.530406805510369 | -4.57016837914037 |
| 1552261_at-WFDC2 | 0.235097881201241 | 0.831722841867064 | 2.62867755124312 | 3.87918590387825 | 4.1321181460949 | 1.49221965285838 | 0.502370985069106 | 0.142206225936598 | 0.530406805510369 | -4.56421682893766 |
| 1552269_at-SPNKA17 | 0.727425849885381 | 3.34636433490861 | 7.227857941928 | 2.51476740930764 | 3.1053516020359 | 1.86402483277676 | 1.02389021844254 | 0.068466100834991 | 0.530406805510369 | 4.5334229241438 |
| 1552275_s_at-SPNKA17 | 0.727425849885381 | 3.34636433490861 | 7.227857941928 | 2.51476740930764 | 3.1053516020359 | 1.86402483277676 | 1.02389021844254 | 0.068466100834991 | 0.530406805510369 | 4.5334229241438 |
| 1552275_s_at-PKX | 0.221045561817067 | 1.36783633711506 | 2.70094804018154 | 5.2909898 | adpval | 979059/946243 | -- select a clustering -- | 0.0424444444444444 | 0.030406805510369 | 1.9652558621 |
| 1552277_a_at-C1orf30 | 0.248800276785497 | 2.30458358421564 | 2.23700527755627 | 8.1016238 | Red to Green Schema | 89 | Cluster Row | Cluster Col | 0.030406805510369 | 4.57238093869102 |

Report a problem



Dataset Explorer

postgres-test.transmartfoundation.org/transmart/datasetExplorer/index

Search

Active Filters: **AND** Filter Clear

Compare Summary Statistics Grid View Advanced Workflow SmartR Data Export Export Jobs Workspace Image View MetaCore Genome Browser

Browse Analyze Sample Explorer Gene Signature/Lists GWAS Upload Data Utilities

Subst 1

Include Exclude Clear Panel

Lung

Subst 2

Include Exclude Clear Panel

DRAG YOUR CONCEPTS HERE

Gene Expression

Platform GPL570

Search in Gene Symbol

Search term PTPN21

Query on

No filter

PTPN1

PTPN11

PTPN12

PTPN13

PTPN14

PTPN16

PTPN2

PTPN20A

PTPN21

PTPN22

PTPN23

PTPN3

PTPN4

PTPN6

SMART Foundation

Report a problem

Navigate Terms

- Across Trials
- eTRIKS Asthma
- eTRIKS Rheumatoid Arthritis
- Private Studies
- Public Studies
 - Acute Lymphoblastic Leukemia_Kirschner_Schwabe_GSE44
 - Asthma_Barczak_GSE34466 (63)
 - Asthma_Minor_GSE13168 (54)
 - Asthma_Tsitsiou_GSE31773 (20)
 - Brain Cancer_Phillips_GSE4271 (80)
 - Breast Cancer_Ivshina_GSE4922 (289)
 - Breast Cancer_Min_GSE5327 (58)
 - Breast Cancer_Pawitan_GSE1456 (159)
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 - AFymetrix Human Genome U133 Plus 2.0 Array (58)
 - Lung (58)
 - Endpoints (58)
 - Diagnosis (58)
 - 123 FEV1 (58)
 - 123 Forced Expiratory Volume Ratio (58)
 - Subjects (58)
 - Lung Disease (58)
 - aka chronic obstructive pulmonary disease (17)
 - aka control (15)
 - aka not-specified (22)
 - Organism (58)
 - Race (58)
 - Sex (58)
 - aka female (30)
 - aka male (28)
 - 123 Age (58)
 - 123 Height (inch) (58)
 - HAPMAP (670)
 - Melanoma_Uveal_Gangem_GSE27831 (29)
 - Psoriasis_Zaba_GSE11903 (89)
 - Pulmonary Sarcoidosis_Ho_GSE19976 (16)
 - Rheumatoid Arthritis_Takeuchi_GSE20690 (68)

Dataset Explorer

postgres-test.transmartfoundation.org/transmart/datasetExplorer/index

Search

Active Filters: Grid Filter Clear

Comparison Summary Statistics Grid View Advanced Workflow SmartR Data Export Export Jobs Workspace Image View MetaCore Genome Browser

Subset 1

Include Exclude Clear Panel

Lung

AND

Subset 2

Include Exclude Clear Panel

DROP YOUR CONCEPTS HERE

Gene Expression

Platform: GPL570

Search in: Gene Symbol

Search term: PTPN21

Query on: Log Intensity

Number of subjects selected: 16

Select the range for expression values:

0.905 4.504

Histogram:

Log Intensity

Bins: 10

No filter OK Cancel

SMART Foundation

Report a problem

Navigation Terms:

- Across Trials
- etRIKS Asthma
- etRIKS Rheumatoid Arthritis
- Private Studies
- Public Studies
 - Acute Lymphoblastic Leukemia_Kirschner_Schwabe_GSE4
 - Asthma_Barczak_GSE34466 (53)
 - Asthma_Major_GSE13168 (54)
 - Asthma_Talziou_GSE1773 (100)
 - Brain Cancer_Phillips_GSE4271 (80)
 - Breast Cancer_Ivshina_GSE4922 (289)
 - Breast Cancer_Min_GSE5327 (38)
 - Breast Cancer_Pawitan_GSE1458 (159)
 - Breast Cancer_Serlie_GSE4382 (167)
 - Complete Genomes_Breast Cancer Blood Pair (2)
 - COPD_Bhattacharya_GSE581 (58)
 - Biomarker Data (58)
 - Affymetrix Human Genome U133 Plus 2.0 Array (58)
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 - Lung Disease (58)
 - chronic obstructive pulmonary disease (17)
 - control (1)
 - not specified (22)
 - Organism (58)
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 - Sex (58)
 - female (30)
 - male (28)
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 - HAPMAP (670)
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 - Pсориаis_Zaba_GSE11903 (85)
 - Pulmonary_Sarcoidosis_Ho_GSE19976 (11)
 - Rheumatoid Arthritis_Takeuchi_GSE20690 (68)

Dataset Explorer

postgres-test.transmartfoundation.org/transmart/datasetExplorer/index

Search

Browser Analyze Sample Explorer Gene Signature/Lists GWAS Upload Data Utilities

Comparison Summary Statistics Grid View Advanced Workflow SmartR Data Export Export Jobs Workspace Image View MetaCore Genome Browser

Active Filters **urlid** Filter Clear

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 - Asthma_Misor_GSE13168 (54)
 - Asthma_Tetsuo_GSE13173 (20)
 - Brain Cancer_Phillips_GSE4271 (80)
 - Breast Cancer_Ivshina_GSE4922 (289)
 - Breast Cancer_Minn_GSE5327 (58)
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 - Breast Cancer_Sorlie_GSE4382 (167)
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 - Melanoma_Uveal_Gangemi_GSE27831 (29)
 - Psoriasis_Zaba_GSE11903 (89)
 - Pulmonary Sarcoidosis_Ho_GSE19976 (15)
 - Rheumatoid Arthritis_Takeuchi_GSE20690 (68)

Subset 1

Include Exclude Clear Panel

Lung 0.905 <=> Log Intensity for PTPN21 <=> 4.504

Subset 2

Include Exclude Clear Panel

Lung 4.505 <=> Log Intensity for PTPN21 <=> 6.326

AND

Include Exclude Clear Panel

DRAG YOUR CONCEPTS HERE

Save Comparison Clear All Panels and Analysis

transSMART + transSMART Foundation

Report a problem

Dataset Explorer

postgres-test.transmartfoundation.org/transmart/datasetExplorer/index

Search

Active Filters: Filter Clear

Comparison Summary Statistics Grid View Advanced Workflow SmartR Data Export Export Jobs Workspace Image View MetaCore Genome Browser

Compare

| Category | Subset 1 (n) | Subset 1 (%) |
|---------------|--------------|--------------|
| AFRO AMERICAN | 2 | 12.5 % |
| CAUCASIAN | 14 | 87.5 % |

| Category | Subset 2 (n) | Subset 2 (%) |
|---------------|--------------|--------------|
| AFRO AMERICAN | 1 | 2.38 % |
| CAUCASIAN | 41 | 97.62 % |

Analysis of PTPN21 in Lung

Public Studies | COPD_Bhattacharya_GSE8581 | Biomarker Data | Affymetrix Human Genome U133 Plus 2.0 Array | Lung

Test demonstrated results are significant at a 95% confidence level with a p-value of 0.0 for a T-test at -7.33107

| Subset 1 |
|-----------------|
| Mean: 3.68 |
| Median: 4.04 |
| IQR: 0.92 |
| SD: 0.9 |
| Data Points: 16 |

| Subset 2 |
|-----------------|
| Mean: 5.4 |
| Median: 5.41 |
| IQR: 0.64 |
| SD: 0.44 |
| Data Points: 42 |

Report a problem

Dataset Explorer

postgres-test.transmartfoundation.org/transmart/datasetExplorer/index

Search

Active Filters: **Grid** Filter Clear

Navigate Terms

- Across Trials
- ERIKS Asthma
- ERIKS Rheumatoid Arthritis
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- Public Studies
 - Acute Lymphoblastic Leukemia_Kirschner_Schwabe_GSE4
 - Asthma_Barczak_GSE34466 (63)
 - Asthma_Major_GSE13168 (14)
 - Asthma_Tobias_GSE13173 (20)
 - Brain Cancer_Phillips_GSE4271 (80)
 - Breast Cancer_Ivshina_GSE4922 (289)
 - Breast Cancer_Min_GSE5327 (58)
 - Breast Cancer_Pawitan_GSE1456 (159)
 - Breast Cancer_Sorlie_GSE4382 (167)
 - Complete Genomics_Breast Cancer Blood Pair (2)
 - COPO_Bhattacharya_GSE8581 (58)
 - Biomarker Data (58)
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 - Organism (58)
 - Race (58)
 - Sex (58)
 - female (30)
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 - Age (58)
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 - Pneumonia_Zaba_GSE11903 (89)
 - Pulmonary Sarcoidosis_Ho_GSE19976 (15)
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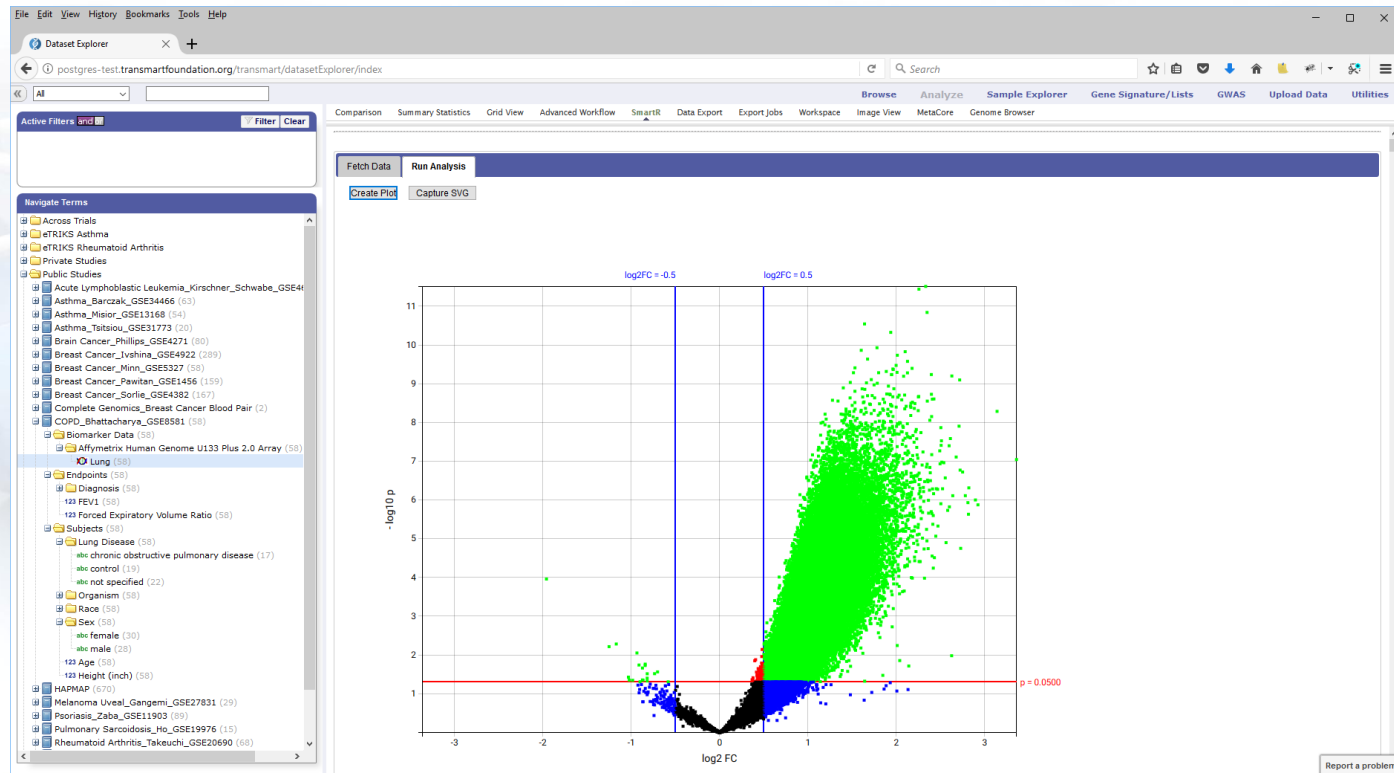
Comparison Summary Statistics Grid View Advanced Workflow SmartR Data Export Export Jobs Workspace Image View MetaCore Genom e Browser

Grid View

| Subject | Patient | Samples | Subset | Trial | Sex | Age | Race | PTPR21 in UPublic StudiesP... |
|---------|------------------|-----------|---------|---------|--------|-----|---------------|-------------------------------|
| 1213 | GSE8581GSM210006 | GSM210006 | subset1 | GSE8581 | female | 65 | afro american | 4.070242109599654 |
| 1214 | GSE8581GSM212788 | GSM212788 | subset1 | GSE8581 | female | 77 | caucasian | 3.518015083323717 |
| 1218 | GSE8581GSM210993 | GSM210993 | subset1 | GSE8581 | male | 61 | caucasian | 4.05701995365272 |
| 1219 | GSE8581GSM210012 | GSM210012 | subset1 | GSE8581 | male | 61 | caucasian | 3.811117625737859 |
| 1225 | GSE8581GSM212649 | GSM212649 | subset1 | GSE8581 | male | 59 | caucasian | 4.277906016896006 |
| 1238 | GSE8581GSM212648 | GSM212648 | subset1 | GSE8581 | female | 39 | caucasian | 2.9225134205800943 |
| 1240 | GSE8581GSM212855 | GSM212855 | subset1 | GSE8581 | male | 73 | caucasian | 4.494299404048102 |
| 1242 | GSE8581GSM210911 | GSM210911 | subset1 | GSE8581 | male | 56 | caucasian | 4.46756573102267 |
| 1245 | GSE8581GSM212069 | GSM212069 | subset1 | GSE8581 | female | 81 | caucasian | 4.254643870677165 |
| 1256 | GSE8581GSM210071 | GSM210071 | subset1 | GSE8581 | male | 68 | caucasian | 4.0184402947384025 |
| 1257 | GSE8581GSM210005 | GSM210005 | subset1 | GSE8581 | female | 84 | afro american | 4.054734202776936 |
| 1260 | GSE8581GSM210004 | GSM210004 | subset1 | GSE8581 | male | 63 | caucasian | 3.164785369647186 |
| 1262 | GSE8581GSM212809 | GSM212809 | subset1 | GSE8581 | female | 61 | caucasian | 4.408945825337417 |
| 1265 | GSE8581GSM212787 | GSM212787 | subset1 | GSE8581 | male | 78 | caucasian | 3.7749189542375574 |
| 1267 | GSE8581GSM212811 | GSM212811 | subset1 | GSE8581 | female | 77 | caucasian | 2.897596423894188 |
| 1270 | GSE8581GSM212810 | GSM212810 | subset1 | GSE8581 | female | 52 | caucasian | 0.92606812514857 |
| 1215 | GSE8581GSM212067 | GSM212067 | subset2 | GSE8581 | male | 55 | caucasian | 5.055809709321612 |
| 1216 | GSE8581GSM212074 | GSM212074 | subset2 | GSE8581 | male | 64 | caucasian | 5.209386865672714 |
| 1217 | GSE8581GSM213037 | GSM213037 | subset2 | GSE8581 | male | 77 | caucasian | 5.81626231750587 |
| 1220 | GSE8581GSM210087 | GSM210087 | subset2 | GSE8581 | female | 68 | caucasian | 5.602113124704513 |
| 1221 | GSE8581GSM210010 | GSM210010 | subset2 | GSE8581 | female | 77 | caucasian | 5.0488742830373557 |
| 1222 | GSE8581GSM210992 | GSM210992 | subset2 | GSE8581 | male | 70 | caucasian | 4.905119637030977 |
| 1223 | GSE8581GSM212852 | GSM212852 | subset2 | GSE8581 | female | 72 | caucasian | 5.936703689435597 |
| 1224 | GSE8581GSM213019 | GSM213019 | subset2 | GSE8581 | female | 71 | caucasian | 5.491621647823186 |
| 1226 | GSE8581GSM211008 | GSM211008 | subset2 | GSE8581 | male | 71 | caucasian | 4.602497987258089 |
| 1227 | GSE8581GSM210194 | GSM210194 | subset2 | GSE8581 | female | 56 | caucasian | 5.7214938995824 |
| 1228 | GSE8581GSM211872 | GSM211872 | subset2 | GSE8581 | male | 74 | caucasian | 5.673899778807948 |
| 1229 | GSE8581GSM213036 | GSM213036 | subset2 | GSE8581 | female | 59 | caucasian | 4.468876811452126 |
| 1230 | GSE8581GSM210014 | GSM210014 | subset2 | GSE8581 | female | 71 | caucasian | 6.62518885633059 |
| 1231 | GSE8581GSM212075 | GSM212075 | subset2 | GSE8581 | female | 79 | afro american | 5.28894989458576 |
| 1232 | GSE8581GSM211865 | GSM211865 | subset2 | GSE8581 | male | 69 | caucasian | 6.24283365519022 |
| 1233 | GSE8581GSM210994 | GSM210994 | subset2 | GSE8581 | female | 64 | caucasian | 5.8573861934558 |
| 1234 | GSE8581GSM210192 | GSM210192 | subset2 | GSE8581 | female | 50 | caucasian | 5.080964680181901 |
| 1235 | GSE8581GSM210015 | GSM210015 | subset2 | GSE8581 | male | 68 | caucasian | 4.720347725427414 |
| 1236 | GSE8581GSM210979 | GSM210979 | subset2 | GSE8581 | female | 55 | caucasian | 5.780950285286185 |
| 1237 | GSE8581GSM211007 | GSM211007 | subset2 | GSE8581 | male | 61 | caucasian | 6.30420565558829 |
| 1239 | GSE8581GSM213020 | GSM213020 | subset2 | GSE8581 | male | 75 | caucasian | 5.704818102096182 |
| 1241 | GSE8581GSM210009 | GSM210009 | subset2 | GSE8581 | female | 53 | caucasian | 5.065076714408467 |

Export to Excel Get patient IDs

Report a problem



Dataset Explorer

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Search

Active Filters Filter Clear

Navigate Terms

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- eTRIKS Asthma
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- Public Studies
 - Acute Lymphoblastic Leukemia_Kirschner_Schwabe_GSE44
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 - Asthma_Misor_GSE13168 (54)
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 - Breast Cancer_Ivshina_GSE4922 (289)
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 - Melanoma_Uveal_Gangemi_GSE27831 (29)
 - Psooriasis_Zaba_GSE11903 (89)
 - Pulmonary Sarcoidosis_Ho_GSE19976 (15)
 - Rheumatoid Arthritis_Takeuch_GSE20690 (68)

Instructions:

- Select the check boxes for the data types and file formats that are desired for export.
- Optionally you can filter the data by dragging and dropping some criteria onto each data type row.
- Click on the "Export Data" button at the bottom of the screen to initiate an asynchronous data download job.
- To download your data navigate to the "Export Jobs" tab.

Note: Metadata will be downloaded in a separate file.

| | Subset 1 | Subset 2 |
|---|--|--|
| Selected Cohort | INCLUDE (Public Studies/COPD_Bhattacharya_GSE8581Biomarker Data/Affymetrix Human G... | INCLUDE (Public Studies/COPD_Bhattacharya_GSE8581Biomarker Data/Affymetrix Human G... |
| Clinical & Low Dimensional Biomarker Data
<i>(Drag and drop low dimensional nodes here to filter the exported data.)</i> | 16 patients
<input type="checkbox"/> TSV | 42 patients
<input type="checkbox"/> TSV |
| Messenger RNA data (Microarray)
<i>(Drag and drop high dimensional nodes here to filter the exported data.)</i> | 16 patients
<input type="checkbox"/> TSV | 42 patients
<input type="checkbox"/> TSV |

Export Data

Report a problem



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Questions?