Figures for supplement to Wan and Pavlidis **Data re-use walk-through**

- Each figure is numbered at the lower right-hand corner.
- In many figures, a red arrow is used to help indicate the point of most interest.
- In some figures, the URL is printed at the bottom, if a fixed URL was available.
- Please refer to the text of the supplement for an explanation of each figure.

GEMMA

Quick search Gemma

Coexpression query took: 5.447

Results for Dcx (doublecortin)
with 368 GO Terms

(Bookmarkable link)

Gene Name: Dcx Exact search

Experiment keywords:

Species: Mus musculus

Stringency: 3

Search

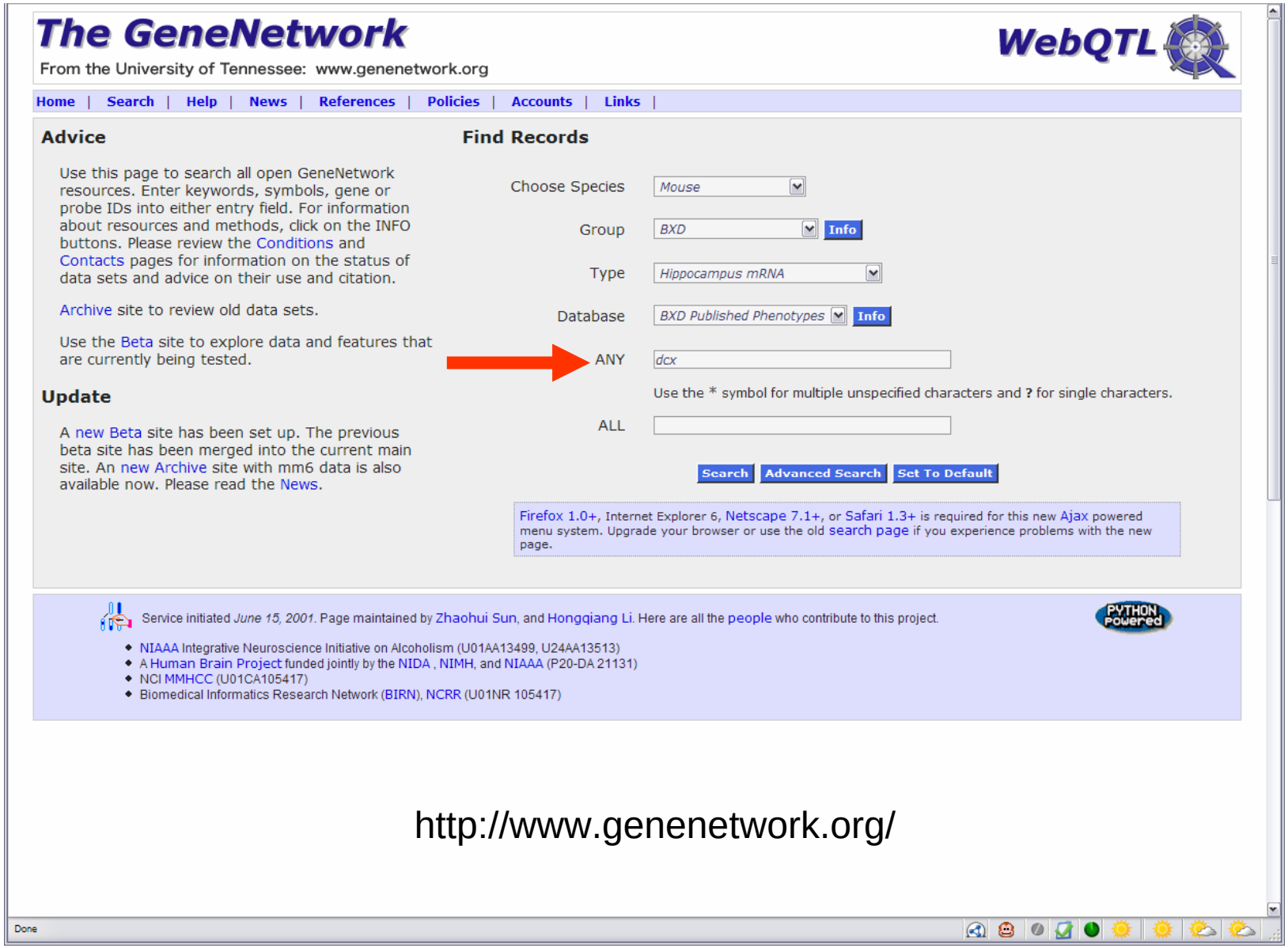
Search Summary	
Datasets searched	167
Links	
Found	5166
Met stringency (+)	274
Met stringency (-)	96

40 datasets had relevent coexpression data
40 datasets probes for Dcx without detected cross-hybridization potential. (details)

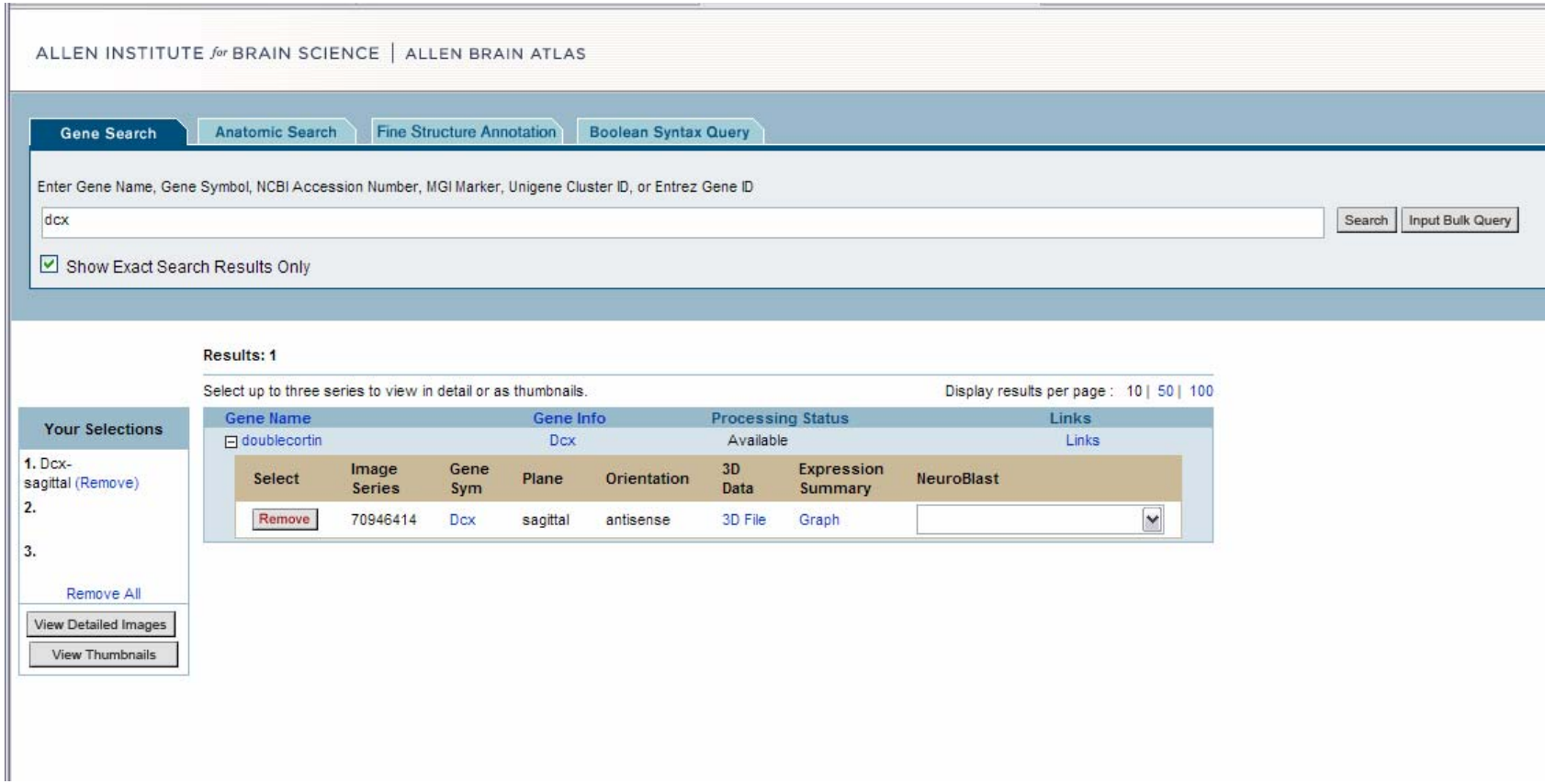
[First/Prev] **1**, 2 [Next/Last]

Name	Official Name	Support	GO overlap	exps
Hn1	hematological and neurological expressed sequence ...	8	114/368	

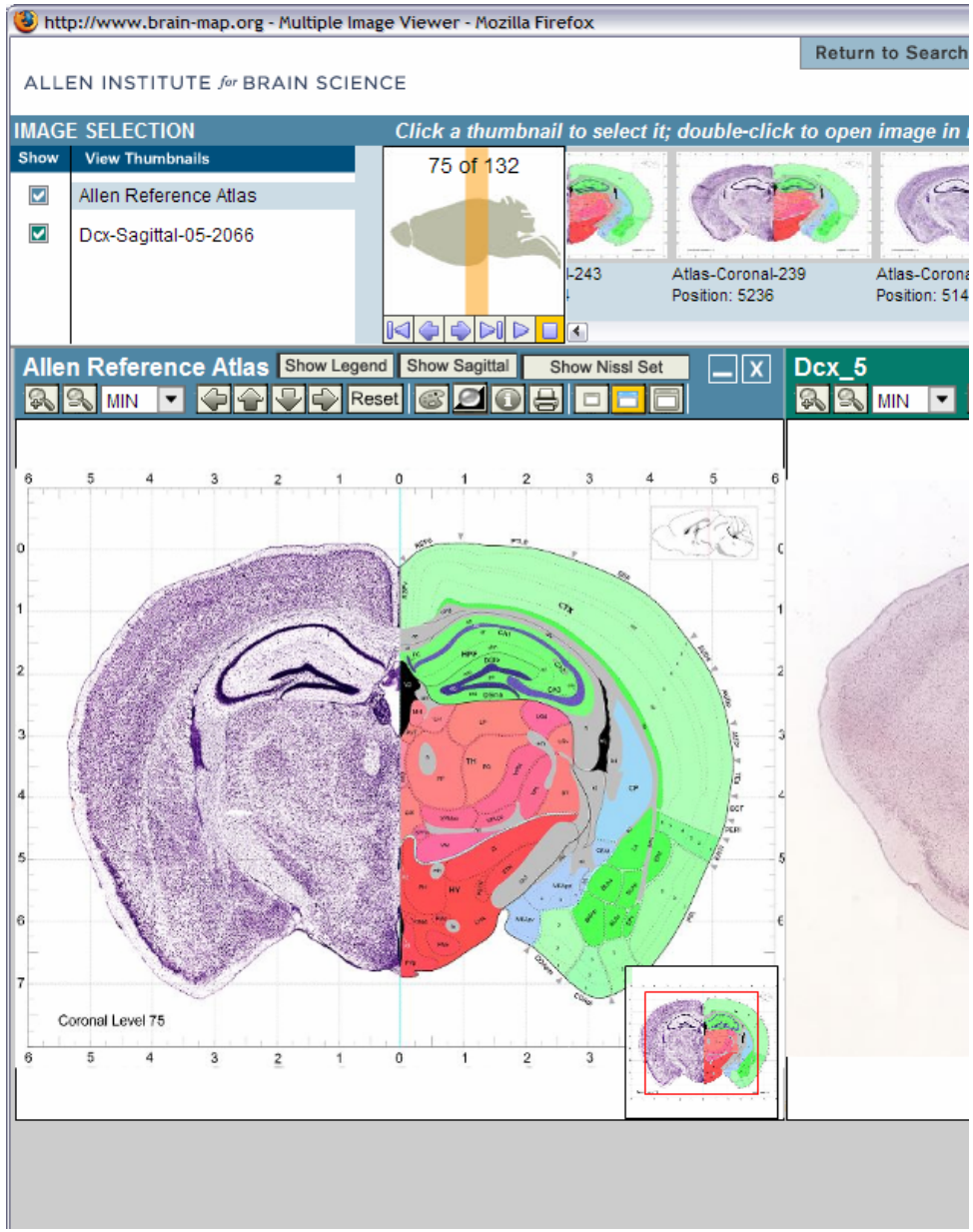
http://www.bioinformatics.ubc.ca/Gemma/searchCoexpression.html?searchString=Dcx&stringency=3&taxon=2&eeSearchString=&exactSearch=on



http://www.genenetwork.org/



http://www.brain-map.org/


http://www.brain-map.org - Multiple Image Viewer - Mozilla Firefox
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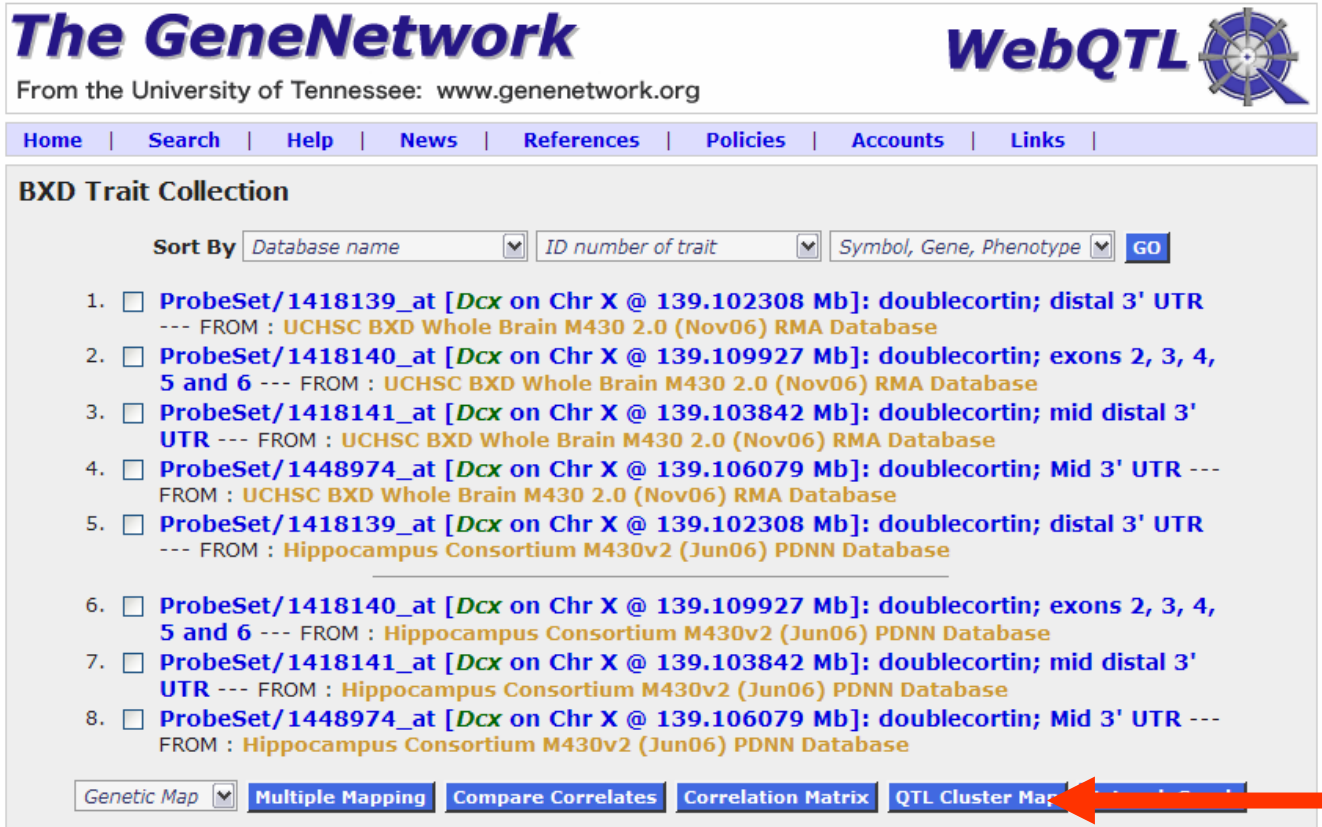
Allen Reference Atlas
Dcx-Sagittal-05-2066
75 of 132
Atlas-Coronal-239
Position: 5236
Allen Reference Atlas
Show Legend
Show Sagittal
Show Nissl Set
MIN
Reset
Dcx_5
MIN
Coronal Level 75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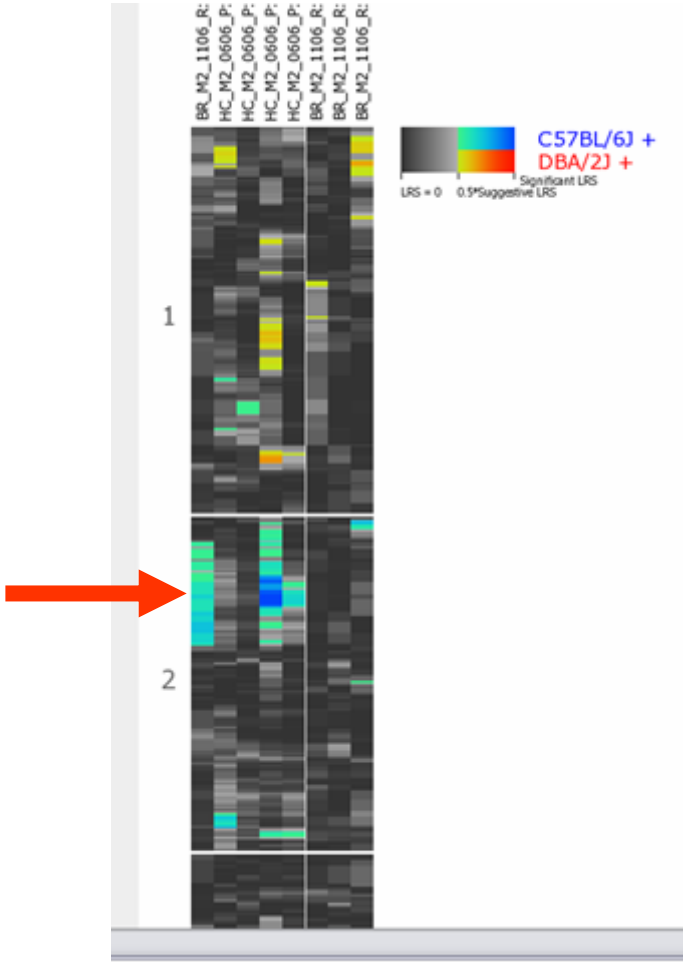
BXD Trait Collection
Sort By Database name ID number of trait Symbol, Gene, Phenotype GO
1. ProbeSet/1418139_at [Dcx on Chr X @ 139.102308 Mb]: doublecortin; distal 3' UTR --- FROM : UCHSC BXD Whole Brain M430 2.0 (Nov06) RMA Database
2. ProbeSet/1418140_at [Dcx on Chr X @ 139.109927 Mb]: doublecortin; exons 2, 3, 4, 5 and 6 --- FROM : UCHSC BXD Whole Brain M430 2.0 (Nov06) RMA Database
3. ProbeSet/1418141_at [Dcx on Chr X @ 139.103842 Mb]: doublecortin; mid distal 3' UTR --- FROM : UCHSC BXD Whole Brain M430 2.0 (Nov06) RMA Database
4. ProbeSet/1448974_at [Dcx on Chr X @ 139.106079 Mb]: doublecortin; Mid 3' UTR --- FROM : UCHSC BXD Whole Brain M430 2.0 (Nov06) RMA Database
5. ProbeSet/1418139_at [Dcx on Chr X @ 139.102308 Mb]: doublecortin; distal 3' UTR --- FROM : Hippocampus Consortium M430v2 (Jun06) PDNN Database
6. ProbeSet/1418140_at [Dcx on Chr X @ 139.109927 Mb]: doublecortin; exons 2, 3, 4, 5 and 6 --- FROM : Hippocampus Consortium M430v2 (Jun06) PDNN Database
7. ProbeSet/1418141_at [Dcx on Chr X @ 139.103842 Mb]: doublecortin; mid distal 3' UTR --- FROM : Hippocampus Consortium M430v2 (Jun06) PDNN Database
8. ProbeSet/1448974_at [Dcx on Chr X @ 139.106079 Mb]: doublecortin; Mid 3' UTR --- FROM : Hippocampus Consortium M430v2 (Jun06) PDNN Database
Genetic Map Multiple Mapping Compare Correlates Correlation Matrix QTL Cluster Ma
Select All Select Invert Remove Selection Select None Export Traits
WebGestalt Gene Ontology WebGestalt help
Browse... append Load Collection Save Collection
Service initiated June 15, 2001. Page maintained by Zhaohui Sun, and Hongqiang Li. Here are all the people who contribute to this project.
PYTHON Powered
NIAAA Integrative Neuroscience Initiative on Alcoholism (U01AA13499, U24AA13513)
A Human Brain Project funded jointly by the NIMH, NIDA , and NIAAA (P20-DA 21131).
NCI MMHCC (U01CA105417)
Biomedical Informatics Research Network (BIRN), NCRR (U01NR 105417)
It took 0.224 second(s) for node3 to generate this page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HC_M2_0606_P:
HC_M2_0606_P:
HC_M2_0606_P:
HC_M2_0606_P:
BR_M2_1106_R:
BR_M2_1106_R:
BR_M2_1106_R:
C57BL/6J +
DBA/2J +
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Significant LRS
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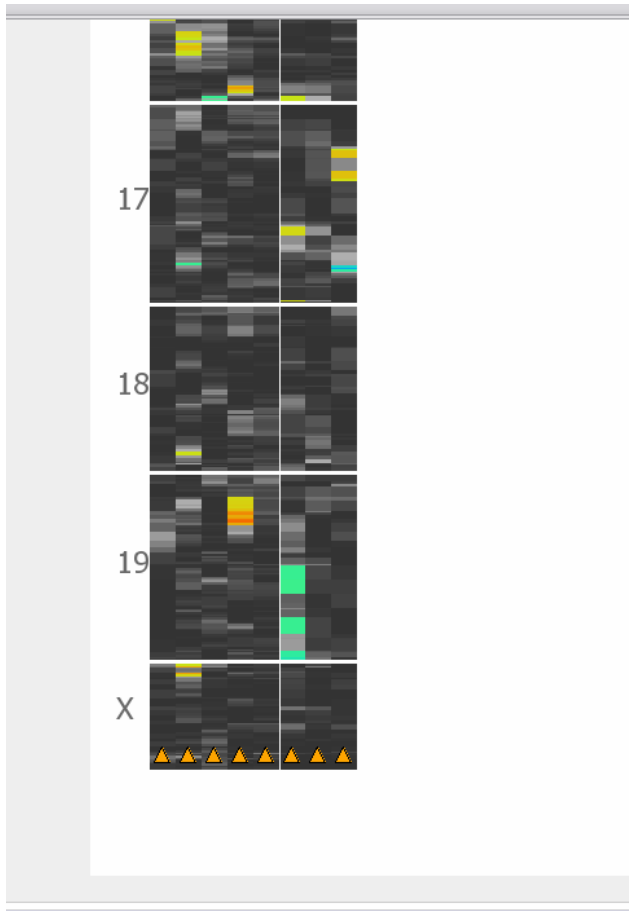
2


17
18
19
X

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Trait Data and Analysis Form

Trait ID 1418141_at from Hippocampus Consortium M430v2 (Jun06) PDNN

Gene Symbol: *Dcx* SNP Browser GeneWiki
Gene Alias: *Dbct*
Description: doublecortin; mid distal 3' UTR
Location: Chr X @ 139.103842 Mb on the minus strand
BLAT Score: 224 BLAT Specificity: 11.2 Verify Location Info

IDs: Gene 13193 OMIM 300121 UniGene Mm.12871 GenBank BB418548

Resource Links: UCSC SymAtlas STRING PANTHER SynDB ABA

Analysis Tools:

To analyze a trait, select appropriate options and one or more function buttons (Basic Statisics, Trait Correlations, Pair-Scan, etc.). New windows will open to display results and provide you access to a series of additional analysis tools. To review and edit data, scroll down to the Trait Data section.

Basic Statistics | Similar Traits | Probe Tool | Add to Collection | Reset

Trait Correlations

Trait Correlations compares the values listed below with those of all other records in the database that you select to the right. You can edit values before initiating the analysis.

Choose Database: Hippocampus Consortium M430v2 (Jun06) PDNN
Calculate: Pearson's Product-Moment | **Cases:** All Cases | **Return:** top 500

Interval Mapping

Interval Mapping computes linkage maps for the entire genome or single chromosomes. Use permutation and bootstrap tests to assess strength and consistency of linkage for single traits.

Chromosome: All
Mapping Scale: Physical
Options:
☑ Permutation test
☐ Bootstrap test

Marker Regression

Marker Regression plots permutation results, lists those markers linked to trait variation, and provides access to composite mapping functions.

Display LRS greater than
OR display all LRS ☐

Pair-Scan Sort by LRS Full Permutation test ☐

Pair-Scan searches for pairs of chromosomal regions that may be involved in two-locus epistatic interactions.

Generate Report

☑ Basic Statistics ☑ Trait Correlation ☑ Interval Mapping ☑ Marker Regression ☑ Pair-Scan

Trait Data:

Reset

Review the data in the edit boxes below. Scan for outliers with the help of the **Basic Statistics** analysis option above. Edit or delete values in the Trait Data boxes, and use the **Reset** option, as needed.

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Map Viewer: Chr 2

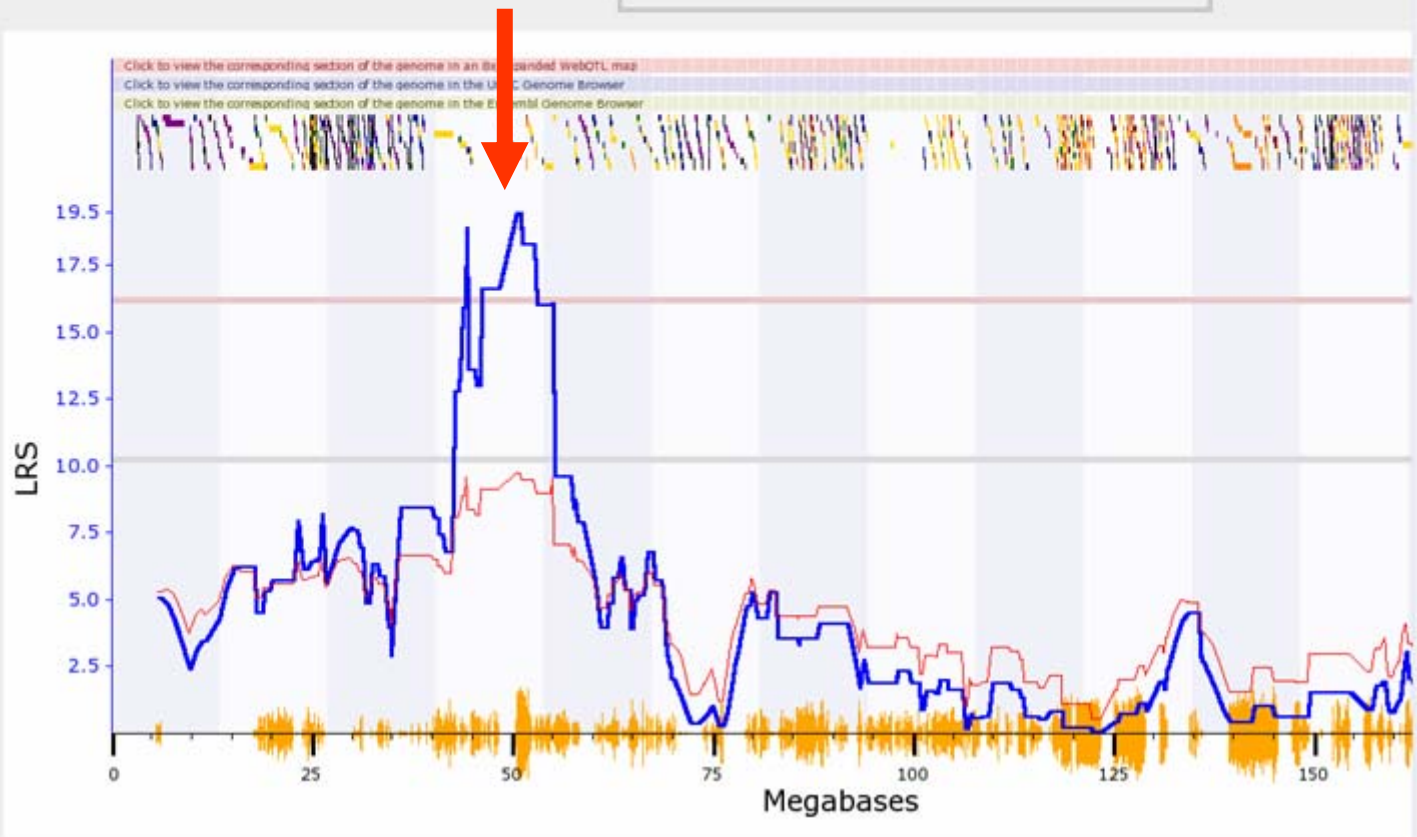
Population: Mouse BXD
Database: Hippocampus Consortium M430v2 (Jun06) PDNN
Trait ID: 1418141_at
Gene Symbol: *Dcx*
Location: Chr X @ 139.103842 Mb

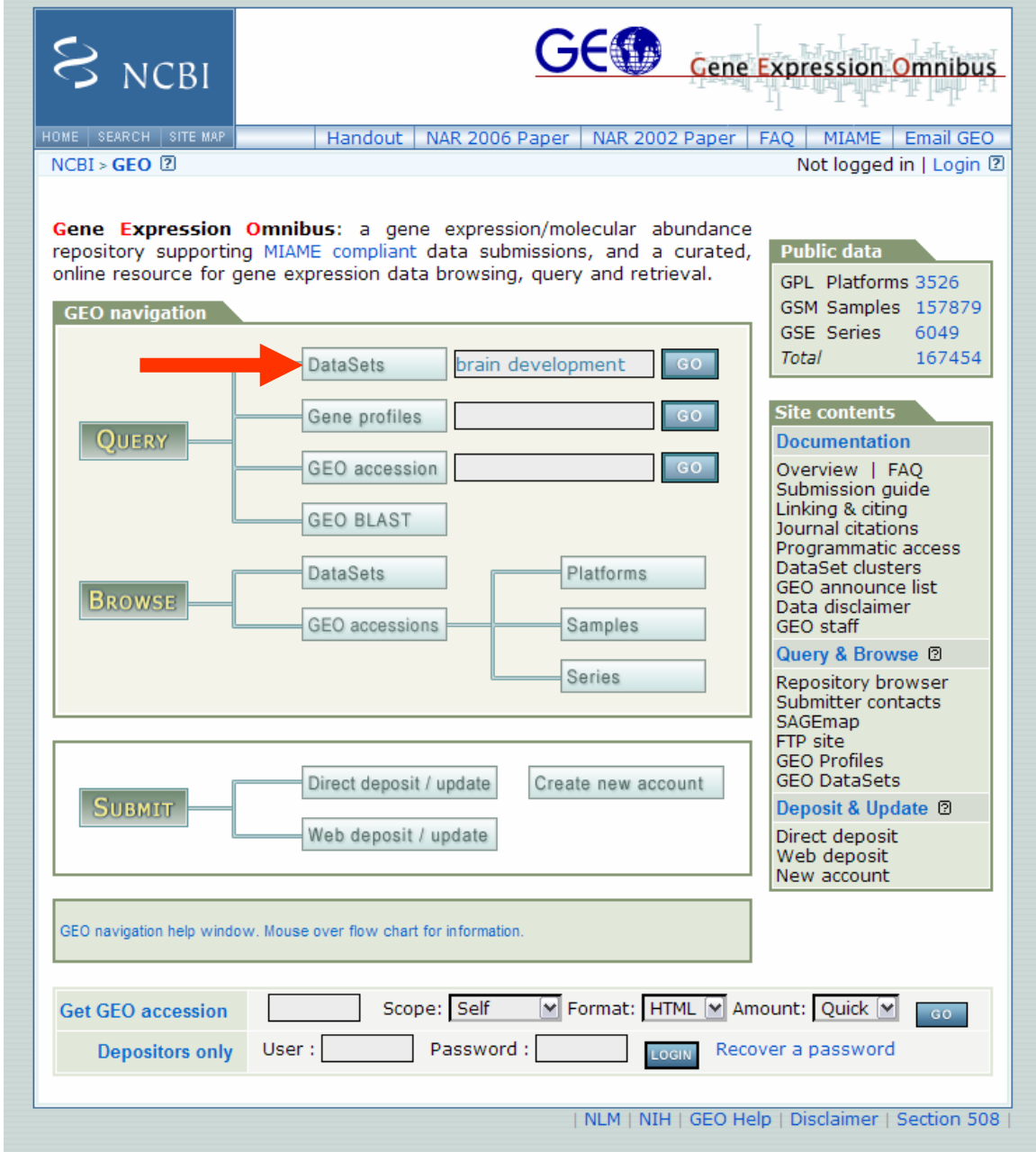
Download results in tab-delimited text format.

Chr: 2 Physical Remap
View: 0 to 181.976762 Mb *
Units: LRS LOD
0.0 units on Y-axis (0 for default)
Width: 1280 pixels (minimum=900)

Permutation Test
Bootstrap Test
Allele Effects
SNP Track *
Gene Track *
Interval Analyst *
Legend
2X Plot

* only apply to single chromosome physical mapping

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SEARCH
SITE MAP
Handout
NAR 2006 Paper
NAR 2002 Paper
FAQ
MIAME
Email GEO
NCBI › GEO
Not logged in | Login
Gene Expression Omnibus: a gene expression/molecular abundance repository supporting MIAME compliant data submissions, and a curated, online resource for gene expression data browsing, query and retrieval.
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QUERY
DataSets
brain development
GO
Gene profiles
GO
GEO accession
GO
GEO BLAST
BROWSE
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Samples
Series
SUBMIT
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Create new account
Web deposit / update
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Public data
GPL Platforms 3526
GSM Samples 157879
GSE Series 6049
Total 167454
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Documentation
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Submission guide
Linking & citing
Journal citations
Programmatic access
DataSet clusters
GEO announce list
Data disclaimer
GEO staff
Query & Browse
Repository browser
Submitter contacts
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Direct deposit
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Scope: Self
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Amount: Quick
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Interval Mapping | brain development - GEO DataSets Re...

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Display Summary Show 20 Send to

All: 122 | DataSets: 24 | Platforms: 14 | Series: 84

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1: GDS2215 record: **Insecticides chlorpyrifos and cyfluthrin effect on primary fetal astrocytes** [Homo sapiens] GEO Profiles, Links

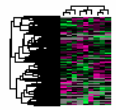
Summary: Analysis of primary fetal astrocytes following exposure to the insecticide chlorpyrifos, an organophosphate, or cyfluthrin, a pyrethroid. Results provide insight into the neurotoxicity of cyfluthrin compared to chlorpyrifos and the mechanisms underlying the neurotoxicity of both insecticides.
Parent Platform: GPL570
Reference Series: GSE5023

Type: gene expression array-based, count

Subsets: 3 agent sets.

Samples: 9

GSM113365: 1% dmso batch 1
GSM113366: 1% dmso batch 2
GSM113367: 1% dmso batch 3
GSM113371: 25 uM chlorpyrifos batch 1
GSM113372: 25 uM chlorpyrifos batch 2
GSM113373: 25 uM chlorpyrifos batch 3



2: GDS2135 record: **Prefrontal cortex postnatal development: time course** [Mus musculus] GEO Profiles, Links

Summary: Analysis of prefrontal cortex (PFC) of animals at 2 to 10 weeks of age. Although the basic laminar structure of the PFC is established in utero, extensive remodeling continues into adolescence. Results map the overall pattern of changes in cortical gene transcripts during postnatal development.
Parent Platform: GPL339
Reference Series: GSE4675

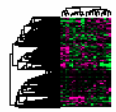
Type: gene expression array-based, transformed count

Subsets: 5 age sets.

Supplementary Files: CEL EXP download...

Samples: 23

GSM105450: Semeralul_PFC_Development_Week2_Batch2_Animal_1
GSM105451: Semeralul_PFC_Development_Week2_Batch2_Animal_2
GSM105452: Semeralul_PFC_Development_Week2_Batch1_Animal_3
GSM105453: Semeralul_PFC_Development_Week2_Batch1_Animal_4
GSM105454: Semeralul_PFC_Development_Week2_Batch1_Animal_5
GSM105455: Semeralul_PFC_Development_Week2_Batch1_Animal_6



3: GDS2125 record: **Methyl-CpG-binding protein 2 binding disruption during neuronal maturation** [Homo sapiens] GEO Profiles, Links

Summary: Analysis of SH-SY5Y cells undergoing PMA-induced neuronal maturational differentiation after transfection with a MeCP2 decoy to disrupt binding of MeCP2 to endogenous targets. Results provide insight into the pathogenesis of Rett syndrome, a neurodevelopmental disorder caused by mutations in MeCP2.
Parent Platform: GPL570
Reference Series: GSE4600

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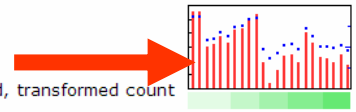
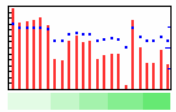
All: 4

Items 1 - 4 of 4 One page.

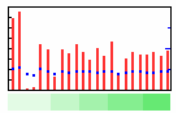
1: GDS2135 record | GPL339 1418141_at [Mus musculus] 23 samples Profile Neighbors, Sequence Neighbors, Homologs, Links
Annotation: Dcx: doublecortin RP23-462G16.2, Dbct
Reporter: NM_010025
Experiment: Prefrontal cortex postnatal development: time course, gene expression array-based, transformed count



2: GDS2135 record | GPL339 1418139_at [Mus musculus] 23 samples Profile Neighbors, Sequence Neighbors, Homologs, Links
Annotation: Dcx: doublecortin RP23-462G16.2, Dbct
Reporter: NM_010025
Experiment: Prefrontal cortex postnatal development: time course, gene expression array-based, transformed count



3: GDS2135 record | GPL339 1448974_at [Mus musculus] 23 samples Profile Neighbors, Sequence Neighbors, Homologs, Links
Annotation: Dcx: doublecortin RP23-462G16.2, Dbct
Reporter: NM_010025
Experiment: Prefrontal cortex postnatal development: time course, gene expression array-based, transformed count



4: GDS2135 record | GPL339 1418140_at [Mus musculus] 23 samples Profile Neighbors, Sequence Neighbors, Links
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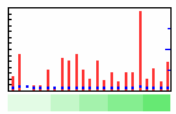
Reporter: NM_010025
Experiment: Prefrontal cortex postnatal development: time course, gene expression array-based, transformed count



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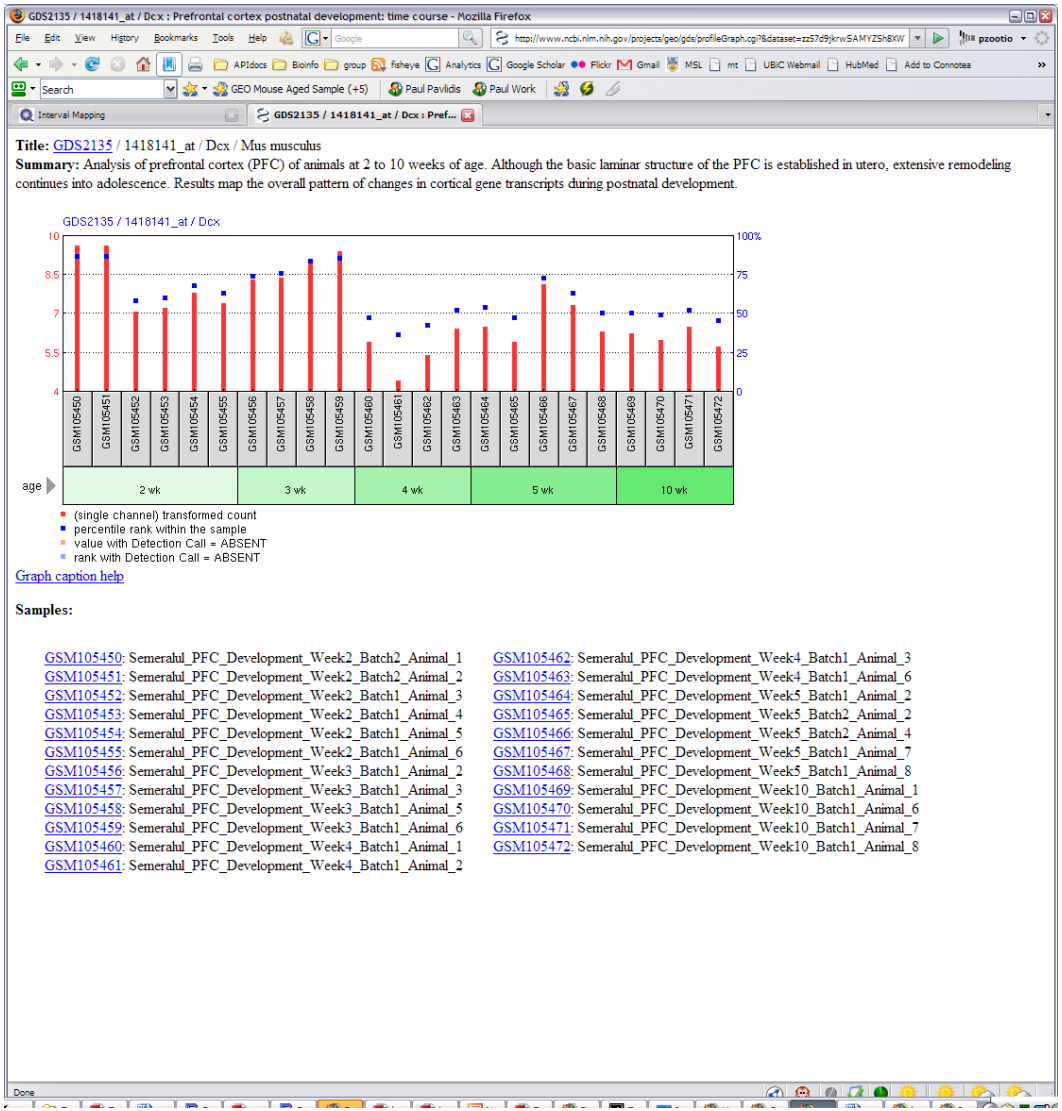
GDS2135 / 1418141_at / Dcx : Prefrontal cortex postnatal development: time course - Mozilla Firefox
Title: GDS2135 / 1418141_at / Dcx / Mus musculus
Summary: Analysis of prefrontal cortex (PFC) of animals at 2 to 10 weeks of age. Although the basic laminar structure of the PFC is established in utero, extensive remodeling continues into adolescence. Results map the overall pattern of changes in cortical gene transcripts during postnatal development.
GDS2135 / 1418141_at / Dcx
10
8.5
7
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GSM105450
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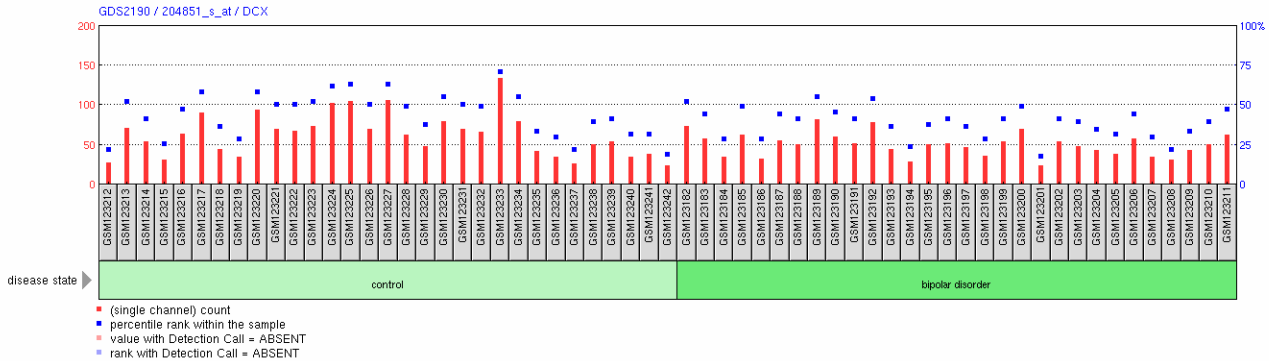
age
2 wk
3 wk
4 wk
5 wk
10 wk
(single channel) transformed count
percentile rank within the sample
value with Detection Call = ABSENT
rank with Detection Call = ABSENT
Graph caption help
Samples:
GSM105450: Semeralul_PFC_Development_Week2_Batch2_Animal_1
GSM105451: Semeralul_PFC_Development_Week2_Batch2_Animal_2
GSM105452: Semeralul_PFC_Development_Week2_Batch1_Animal_3
GSM105453: Semeralul_PFC_Development_Week2_Batch1_Animal_4
GSM105454: Semeralul_PFC_Development_Week2_Batch1_Animal_5
GSM105455: Semeralul_PFC_Development_Week2_Batch1_Animal_6
GSM105456: Semeralul_PFC_Development_Week3_Batch1_Animal_2
GSM105457: Semeralul_PFC_Development_Week3_Batch1_Animal_3
GSM105458: Semeralul_PFC_Development_Week3_Batch1_Animal_5
GSM105459: Semeralul_PFC_Development_Week3_Batch1_Animal_6
GSM105460: Semeralul_PFC_Development_Week4_Batch1_Animal_1
GSM105461: Semeralul_PFC_Development_Week4_Batch1_Animal_2
GSM105462: Semeralul_PFC_Development_Week4_Batch1_Animal_3
GSM105463: Semeralul_PFC_Development_Week4_Batch1_Animal_6
GSM105464: Semeralul_PFC_Development_Week5_Batch1_Animal_2
GSM105465: Semeralul_PFC_Development_Week5_Batch2_Animal_2
GSM105466: Semeralul_PFC_Development_Week5_Batch2_Animal_4
GSM105467: Semeralul_PFC_Development_Week5_Batch1_Animal_7
GSM105468: Semeralul_PFC_Development_Week5_Batch1_Animal_8
GSM105469: Semeralul_PFC_Development_Week10_Batch1_Animal_1
GSM105470: Semeralul_PFC_Development_Week10_Batch1_Animal_6
GSM105471: Semeralul_PFC_Development_Week10_Batch1_Animal_7
GSM105472: Semeralul_PFC_Development_Week10_Batch1_Animal_8

Title: GDS2190 / 204851_s_at / DCX / Homo sapiens

Summary: Analysis of postmortem dorsolateral prefrontal cortex from 30 adults with bipolar disorder. Results provide insight into the pathophysiology of the disease.



Graph caption help

Samples:

GSM123212: brain_DLPFC_bipolar C_mr275
GSM123213: brain_DLPFC_bipolar C_mr276
GSM123214: brain_DLPFC_bipolar C_mr283
GSM123215: brain_DLPFC_bipolar C_mr284
GSM123216: brain_DLPFC_bipolar C_mr404
GSM123217: brain_DLPFC_bipolar C_mr407
GSM123218: brain_DLPFC_bipolar C_mr418
GSM123219: brain_DLPFC_bipolar C_mr423
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GSM123237: brain_DLPFC_bipolar C_mr780
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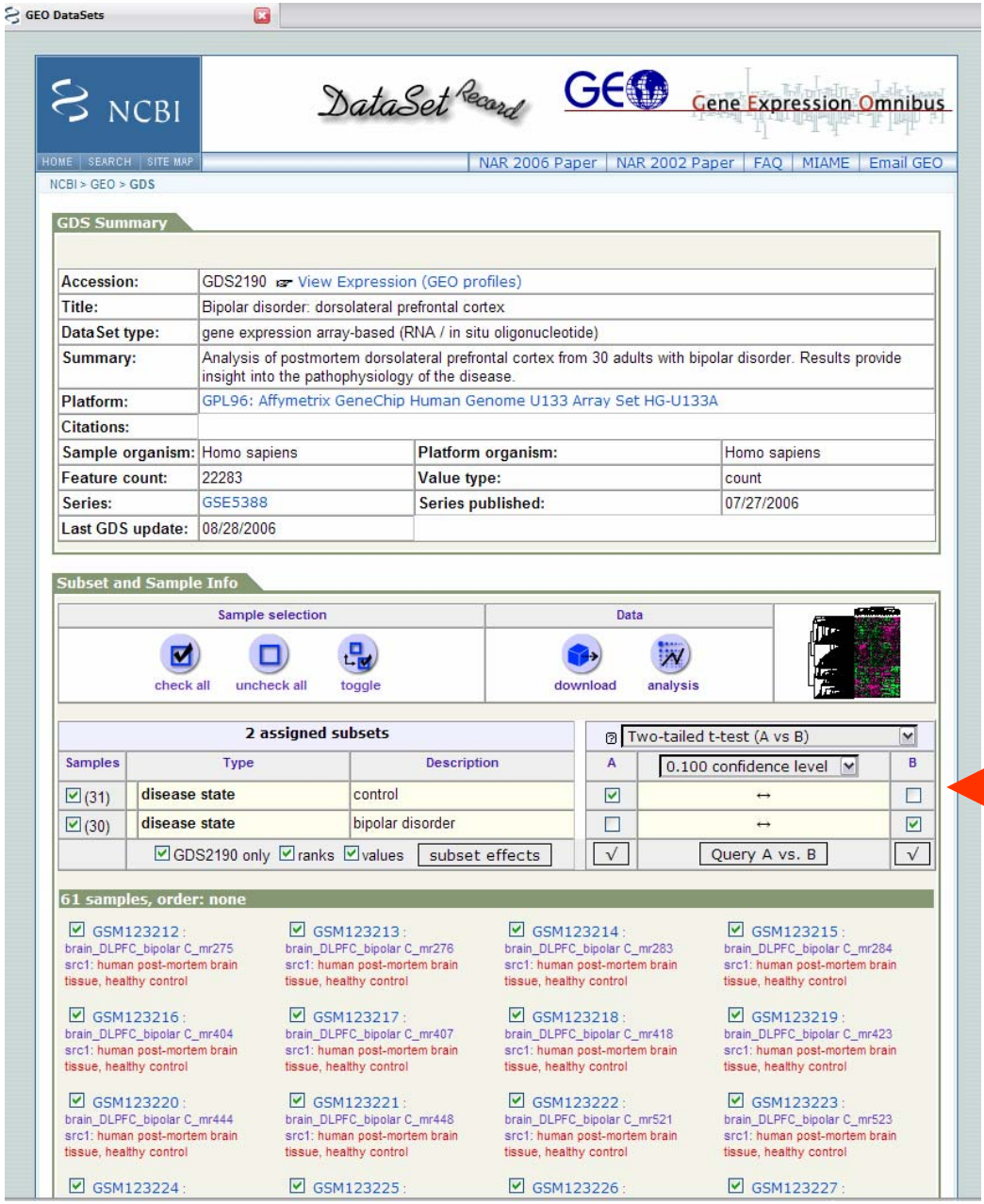
GSM123239: brain_DLPFC_bipolar C_mr869
GSM123240: brain_DLPFC_bipolar C_mr871
GSM123241: brain_DLPFC_bipolar C_mr945
GSM123242: brain_DLPFC_bipolar C_mr951
GSM123182: brain_DLPFC_bipolar B_mr279
GSM123183: brain_DLPFC_bipolar B_mr281
GSM123184: brain_DLPFC_bipolar B_mr282
GSM123185: brain_DLPFC_bipolar B_mr288
GSM123186: brain_DLPFC_bipolar B_mr304
GSM123187: brain_DLPFC_bipolar B_mr403
GSM123188: brain_DLPFC_bipolar B_mr409
GSM123189: brain_DLPFC_bipolar B_mr420
GSM123190: brain_DLPFC_bipolar B_mr425
GSM123191: brain_DLPFC_bipolar B_mr426
GSM123192: brain_DLPFC_bipolar B_mr427
GSM123193: brain_DLPFC_bipolar B_mr430
GSM123194: brain_DLPFC_bipolar B_mr446
GSM123195: brain_DLPFC_bipolar B_mr520
GSM123196: brain_DLPFC_bipolar B_mr547
GSM123197: brain_DLPFC_bipolar B_mr553
GSM123198: brain_DLPFC_bipolar B_mr613
GSM123199: brain_DLPFC_bipolar B_mr646
GSM123200: brain_DLPFC_bipolar B_mr648
GSM123201: brain_DLPFC_bipolar B_mr667
GSM123202: brain_DLPFC_bipolar B_mr676
GSM123203: brain_DLPFC_bipolar B_mr678
GSM123204: brain_DLPFC_bipolar B_mr697
GSM123205: brain_DLPFC_bipolar B_mr777
GSM123206: brain_DLPFC_bipolar B_mr781
GSM123207: brain_DLPFC_bipolar B_mr867
GSM123208: brain_DLPFC_bipolar B_mr943
GSM123209: brain_DLPFC_bipolar B_mr946
GSM123210: brain_DLPFC_bipolar B_mr950
GSM123211: brain_DLPFC_bipolar B_mr953



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component but unknown pathophysiology. We used microarray technology (Affymetrix HG-U133A GeneChips) to determine the expression of approximately 22 000 mRNA transcripts in post-mortem brain tissue (dorsolateral prefrontal cortex) from patients with bipolar disorder and matched healthy controls. A cohort of 70 subjects was investigated and the final analysis included 30 bipolar and 31 control subjects. Differences between disease and control groups were identified using a rigorous statistical analysis with correction for confounding variables and multiple testing.

Overall design	RNA extracted from human postmortem brain tissue from adult subjects with bipolar disorder and healthy controls was hybridised to Affymetrix HG-U133A GeneChips to identify differentially expressed genes in the disease state.
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Citation(s)	
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Country	United Kingdom
Platforms (1)	GPL96 Affymetrix GeneChip Human Genome U133 Array Set HG-U133A
Samples (61)	GSM123182 brain_DLPFC_bipolar B_mr279
⊞ Show all...	GSM123183 brain_DLPFC_bipolar B_mr281
	GSM123184 brain_DLPFC_bipolar B_mr282

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Supplementary files	File type
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Items 1 - 2 of 2
One page.
1: GDS2190 record | GPL96 204851_s_at [Homo sapiens]
61 samples Sequence Neighbors, Links
Annotation: DCX: doublecortex; lissencephaly, X-linked (doublecortin) RP5-914P14.1, DBCN, DC, LISX, SCLH, XLIS
Reporter: AF040254
Experiment: Bipolar disorder: dorsolateral prefrontal cortex , gene expression array-based, count
2: GDS2190 record | GPL96 204850_s_at [Homo sapiens]
61 samples Sequence Neighbors, Links
Annotation: DCX: doublecortex; lissencephaly, X-linked (doublecortin) RP5-914P14.1, DBCN, DC, LISX, SCLH, XLIS
Reporter: NM_000555
Experiment: Bipolar disorder: dorsolateral prefrontal cortex , gene expression array-based, count
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