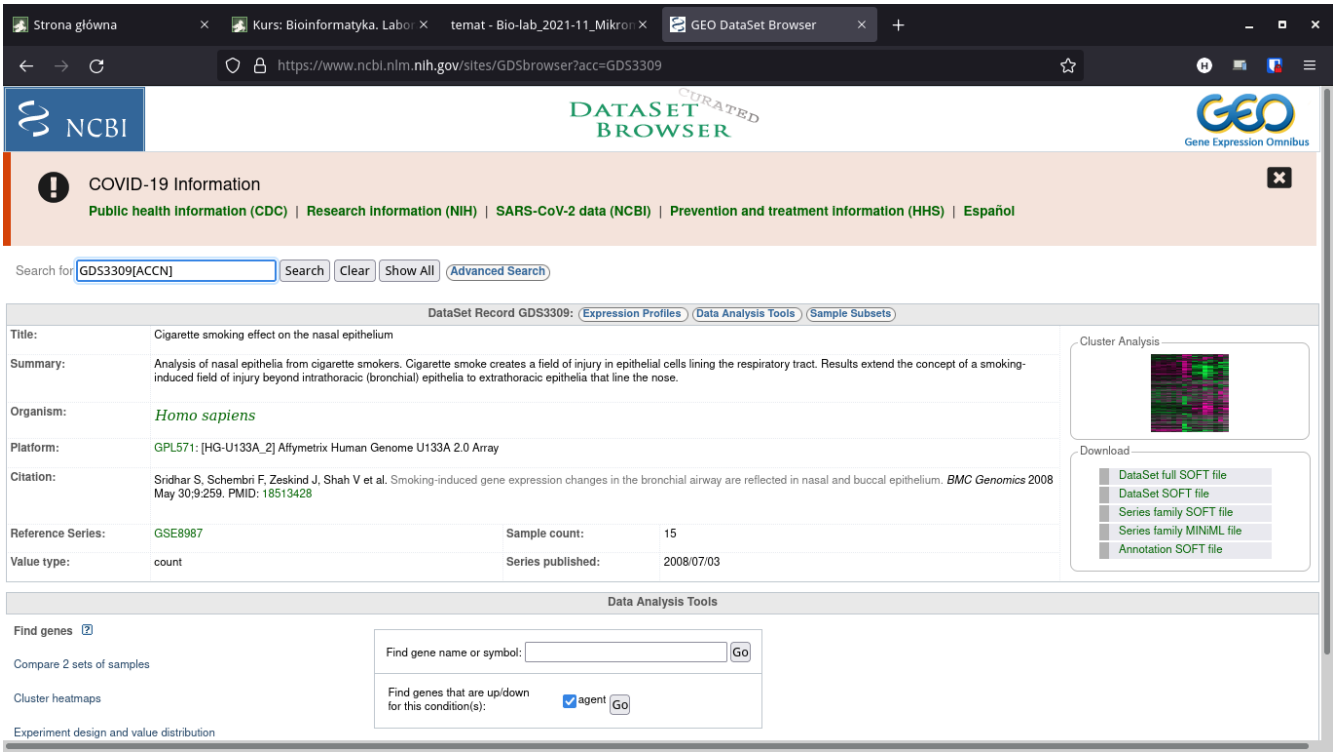
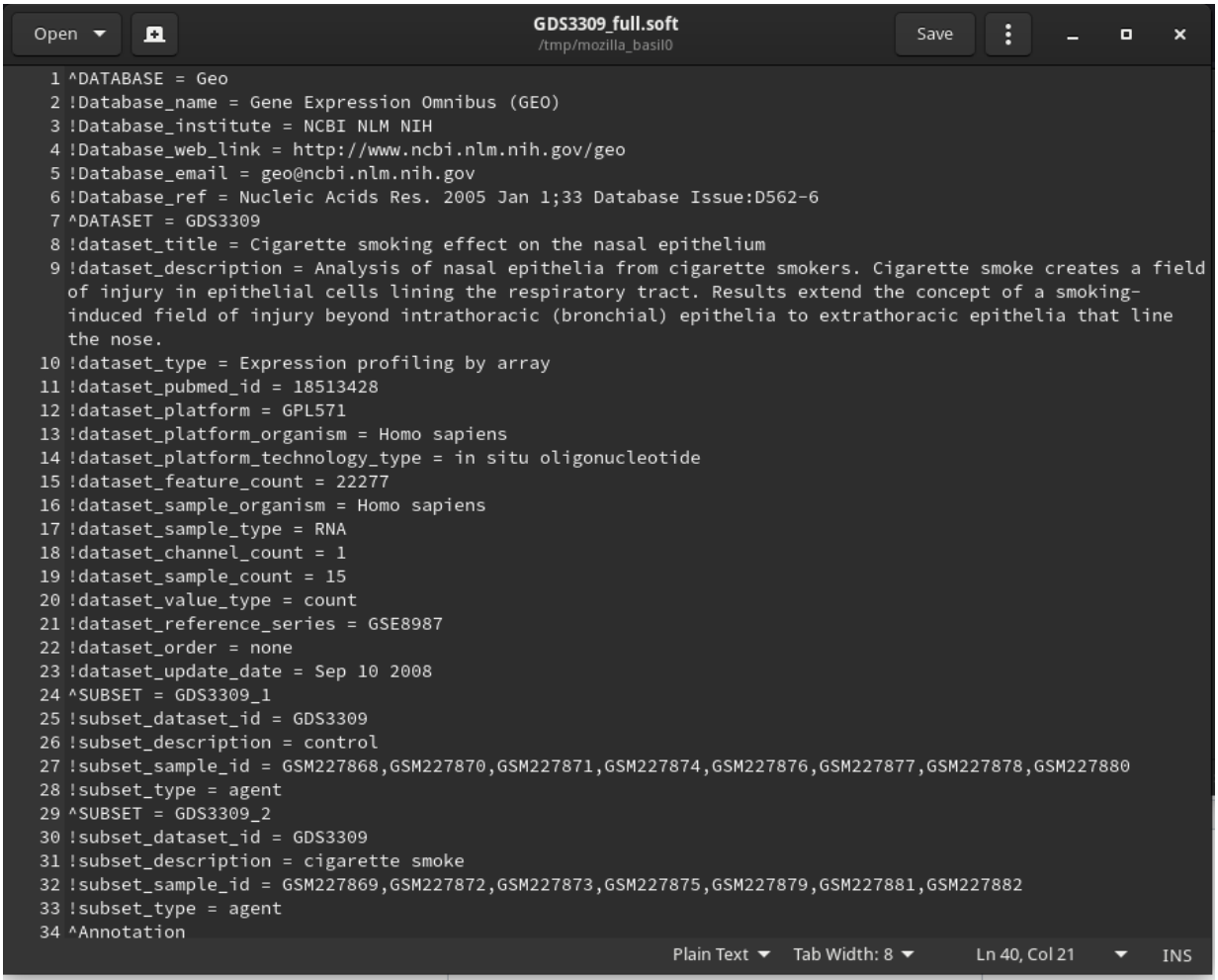
1. 2.



Tytuł: Cigarette smoking effect on the nasal epithelium

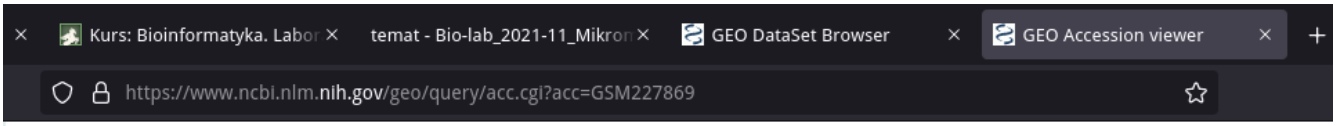
3.
Analyzes the expression level of 18,400 transcripts and variants, including 14,500 well-characterized human genes.
Sekwencje pochodziły z organizmu czlowieka.
Tabela **Data table** zawiera odnośniki do stron NCBI sekwencji.

4.



5.
Mamy 15 eksperymentów. Część dotyczy osób niepalących, część aktywnych palaczy.

6.



Platform ID GPL571
Series (1) GSE8987 Expression data from buccal and nasal epithelium of current and never smokers

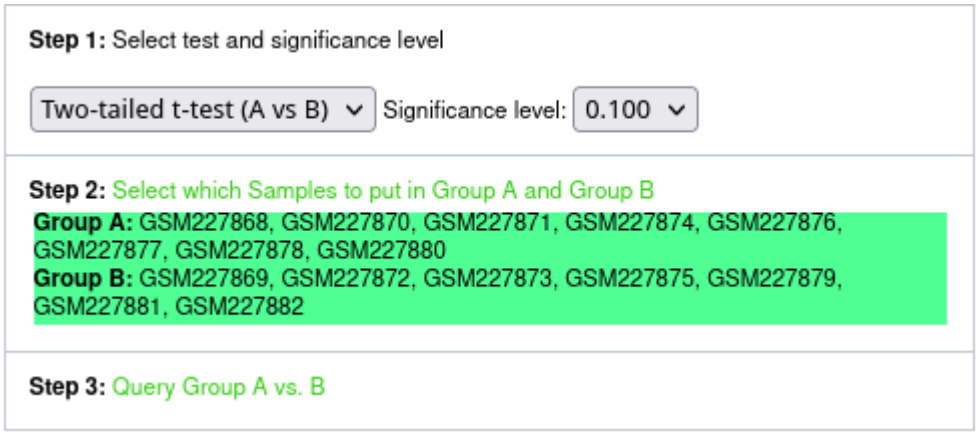
Data table header descriptions

ID_REF	
VALUE	Signal
ABS_CALL	indicating whether the transcript was present (P), absent (A), or marginal (M)
DETECTION P-VALUE	

Data table

ID_REF	VALUE	ABS_CALL	DETECTION P-VALUE
AFFX-BioB-5_at	219.508	P	0.000972149
AFFX-BioB-M_at	275.697	P	0.00159257
AFFX-BioB-3_at	108.475	P	0.026111
AFFX-BioC-5_at	483.965	P	0.000856509
AFFX-BioC-3_at	551.319	P	7.00668e-05
AFFX-BioDn-5_at	795.63	P	9.4506e-05
AFFX-BioDn-3_at	3354.97	P	0.000340305
AFFX-CreX-5_at	6408.26	P	5.16732e-05
AFFX-CreX-3_at	8016.55	P	4.42873e-05
AFFX-DapX-5_at	29.4455	A	0.175328
AFFX-DapX-M_at	44.2461	A	0.313723
AFFX-DapX-3_at	5.82879	A	0.960339
AFFX-LysX-5_at	21.9814	A	0.262827
AFFX-LysX-M_at	25.5152	A	0.737173
AFFX-LysX-3_at	13.0402	A	0.368438
AFFX-PheX-5_at	3.19525	A	0.876428
AFFX-PheX-M_at	4.5567	A	0.9273
AFFX-PheX-3_at	31.4524	A	0.672921
AFFX-ThrX-5_at	2.56848	A	0.910522
AFFX-ThrX-M_at	6.80782	A	0.699394

7.



Selected items

Items: 1 to 20 of 1473

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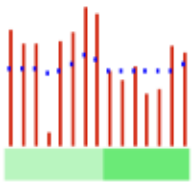
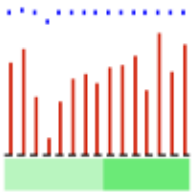
☐ RFC2 - Cigarette smoking effect on the nasal epithelium

1. Annotation: RFC2, replication factor C subunit 2
   Organism: Homo sapiens
   Reporter: GPL571, 1053_at (ID_REF), GDS3309, 5982 (Gene ID), M87338
   DataSet type: Expression profiling by array, count, 15 samples
   ID: 53928502
   GEO DataSets Gene Profile neighbors Chromosome neighbors Homologene neighbors



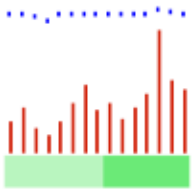
☐ CAPNS1 - Cigarette smoking effect on the nasal epithelium

2. Annotation: CAPNS1, calpain small subunit 1
   Organism: Homo sapiens
   Reporter: GPL571, 200001_at (ID_REF), GDS3309, 826 (Gene ID), NM_001749
   DataSet type: Expression profiling by array, count, 15 samples
   ID: 53928522
   GEO DataSets Gene Profile neighbors Chromosome neighbors Homologene neighbors



☐ TAF10 - Cigarette smoking effect on the nasal epithelium

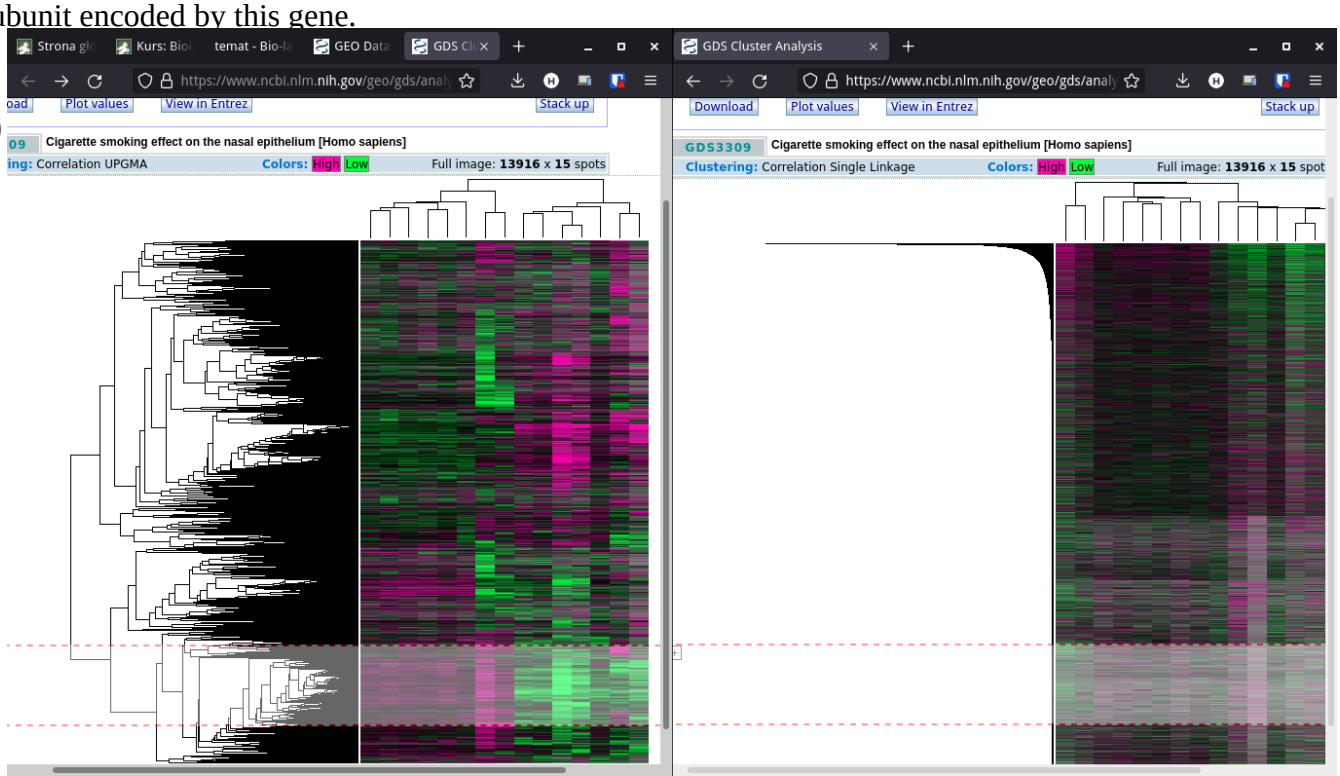
3. Annotation: TAF10, TATA-box binding protein associated factor 10
   Organism: Homo sapiens
   Reporter: GPL571, 200055_at (ID_REF), GDS3309, 6881 (Gene ID), NM_006284
   DataSet type: Expression profiling by array, count, 15 samples
   ID: 53928576
   GEO DataSets Gene Profile neighbors Chromosome neighbors Homologene neighbors



☐ LOC101929240 - Cigarette smoking effect on the nasal epithelium

RFC2 replication factor C subunit 2 [Homo sapiens (human)] - This gene encodes a member of the activator 1 small subunits family.
CAPNS1 calpain small subunit 1 [Homo sapiens (human)] - This gene is a member of the calpain small subunit family. Calpains are calcium-dependent cysteine proteinases that are widely distributed in mammalian cells. Calpains operate as heterodimers, comprising a specific large catalytic subunit (calpain 1 subunit in Calpain I, and calpain 2 subunit in Calpain II), and a common small regulatory subunit encoded by this gene.

8.
a)



b)

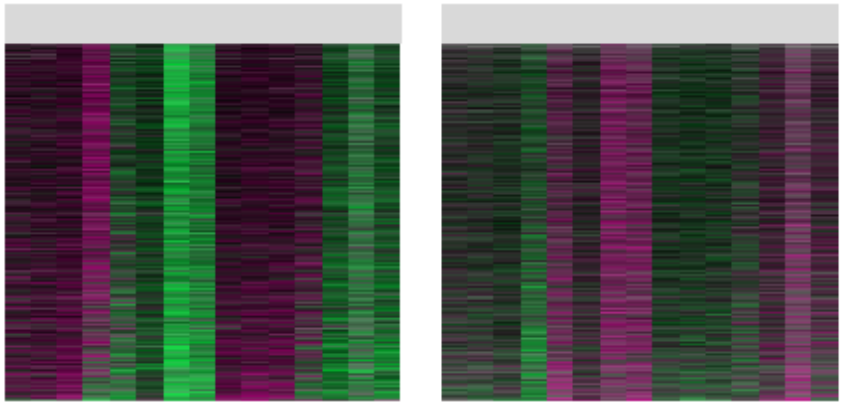
K-means/K-medians clustering divide genes into k partitions. The best solution in 3 trials is reported.

Color Options		Clustering Options	
High expression level:	Magenta	Distance:	Euclidean
Low expression level:	Green	K-method:	Mean
		Clusters, k (2-15):	2

Display

GDS3309 **Cigarette smoking effect on the nasal epithelium [Homo sapiens]**

Clustering: Euclidean K-means **Colors:** High Low Full image: **13916** x **15** spots



K-means/K-medians clustering divide genes into k partitions. The best solution in 3 trials is reported.

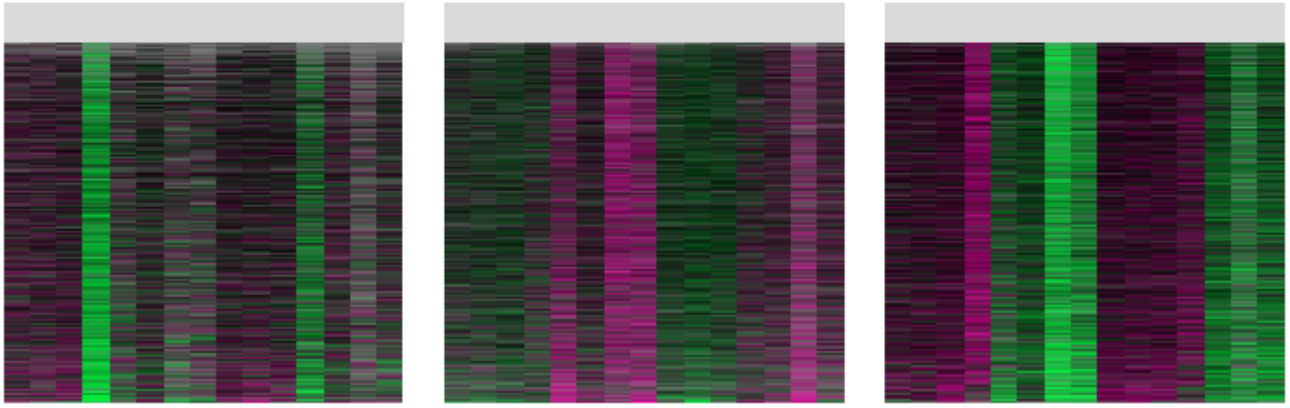
Color Options	
High expression level:	Magenta
Low expression level:	Green

Display

Clustering Options	
Distance:	Euclidean
K-method:	Mean
Clusters, k (2-15):	3

GDS3309 **Cigarette smoking effect on the nasal epithelium [Homo sapiens]**

Clustering: Euclidean K-means **Colors:** High Low Full image: **13916** x **15** spots



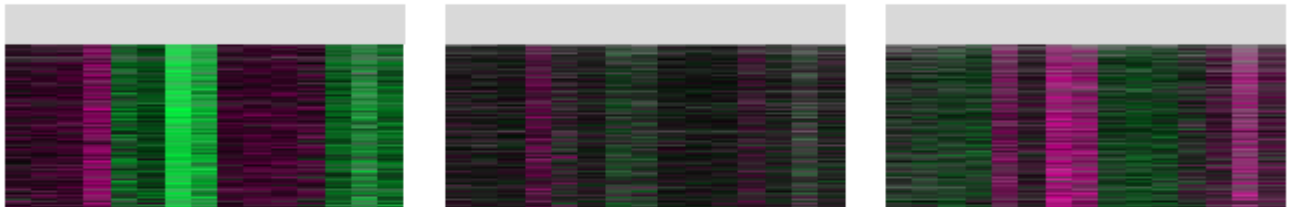
K-means/K-medians clustering divide genes into k partitions. The best solution in 3 trials is reported.

Color Options		Clustering Options	
High expression level:	Magenta	Distance:	Euclidean
Low expression level:	Green	K-method:	Mean
		Clusters, k (2-15):	4

Display

GDS3309 **Cigarette smoking effect on the nasal epithelium [Homo sapiens]**

Clustering: Euclidean K-means **Colors:** High Low Full image: **13916** x **15** spots



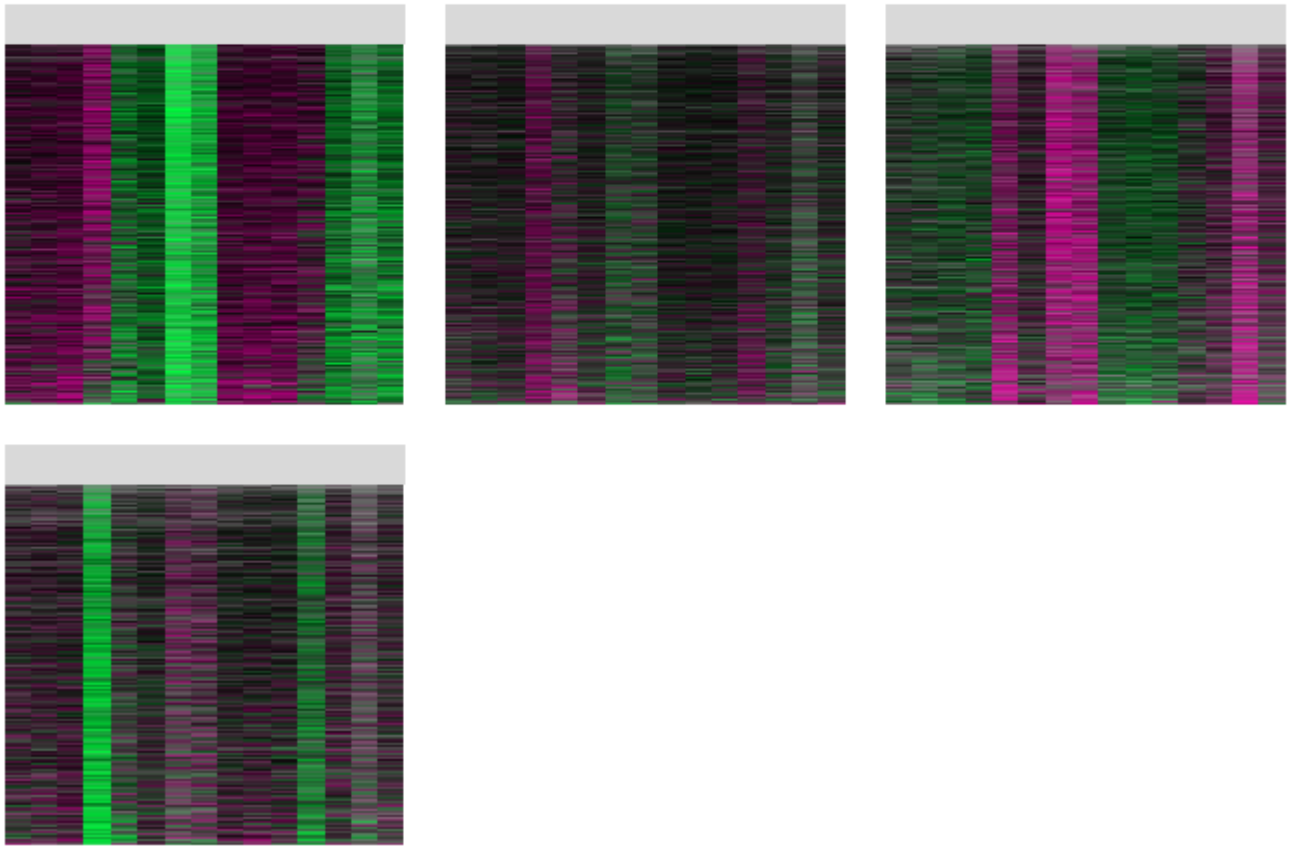
K-means/K-medians clustering divide genes into k partitions. The best solution in 3 trials is reported.

Color Options		Clustering Options	
High expression level:	Magenta	Distance:	Euclidean
Low expression level:	Green	K-method:	Mean
		Clusters, k (2-15):	4

Display

GDS3309 **Cigarette smoking effect on the nasal epithelium [Homo sapiens]**

Clustering: Euclidean K-means **Colors:** High Low Full image: **13916** x **15** spots



c)

GDS3309 **Cigarette smoking effect on the nasal epithelium [Homo sapiens]**

Clustering: Chromosome Position Ordering **Colors:** High Low Full image: **13916** x **15** spots