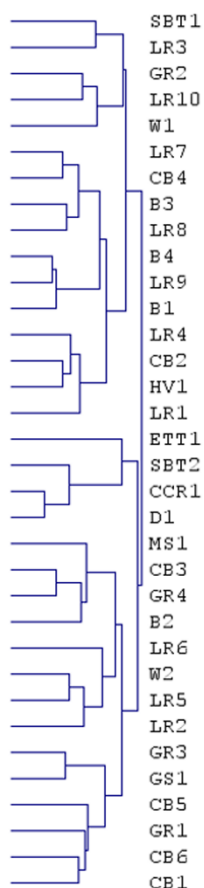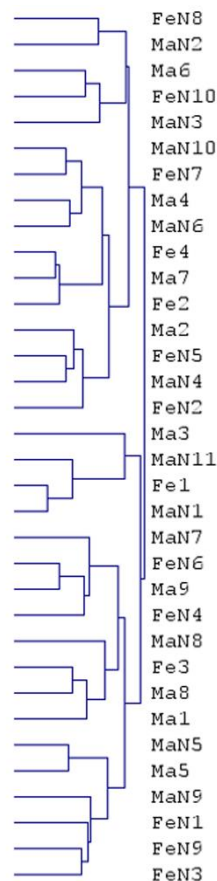**Figure S1. Unsupervised hierarchical clustering of 34 MCTs on the basis of the expression values of the 20% of Transcript clusters (1,041) with the highest variance in expression signal**
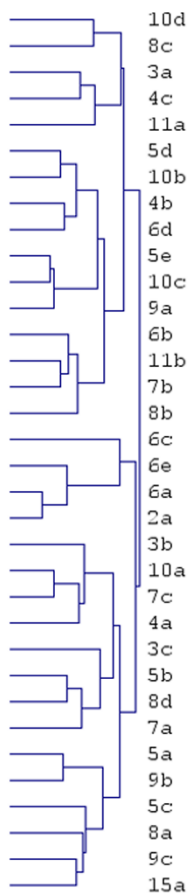
A. MCTs labelled according to breed.

B. MCTs labelled according to sex.

B - Boxer; CB - Cross breed, CCR - Curly Coated Retriever,
D - Dogue de Bordeaux, ETT - English Toy Terrier,
GS- German Shepherd, HV - Hungarian Vizsla,
LR - Labrador Retriever, MS - Miniature Schnauzer,
SBT - Staffordshire Bull Terrier, W - Whippet.

Fe - Female, FeN - Neutered female,
Ma - Male, MaN - Neutered male.

C. MCTs labelled according to age.


```
10d
8c
3a
4c
11a
5d
10b
4b
6d
5e
10c
9a
6b
11b
7b
8b
6c
6e
6a
2a
3b
10a
7c
4a
3c
5b
8d
7a
5a
9b
5c
8a
9c
15a
```

Numbers indicate age in years.