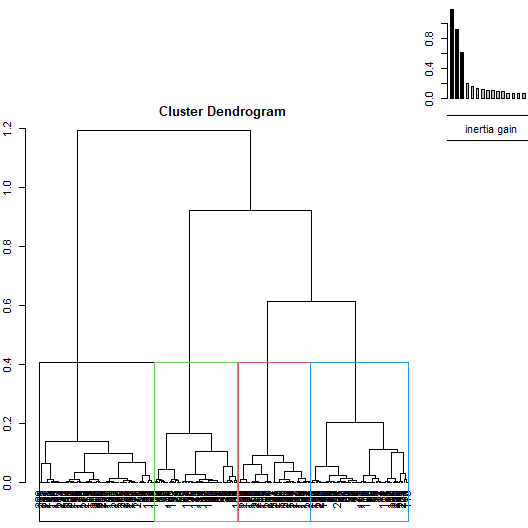
Classification

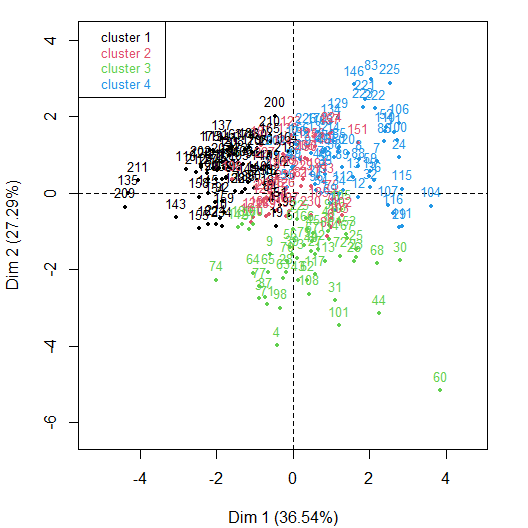
Dataset res.PCA

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**Figure 1.1 - Hierarchical tree.**

The classification made on individuals reveals 4 clusters.



**Figure 1.2 - Ascending Hierarchical Classification of the individuals.**

The **cluster 1** is made of individuals such as *209*. This group is characterized by :

* high values for the variables *Cell\_Number*, *Proliferation\_DMSO*, *CollagenIV* and *CollagenI* (variables are sorted from the strongest).
* low values for the variables *Mean\_PXR*, *Survival\_20µM*, *Mean\_Ecad*, *Survival\_10µM*, *Mean\_Vimentin* and *Proliferation\_20µM* (variables are sorted from the weakest).

The **cluster 2** is made of individuals sharing :

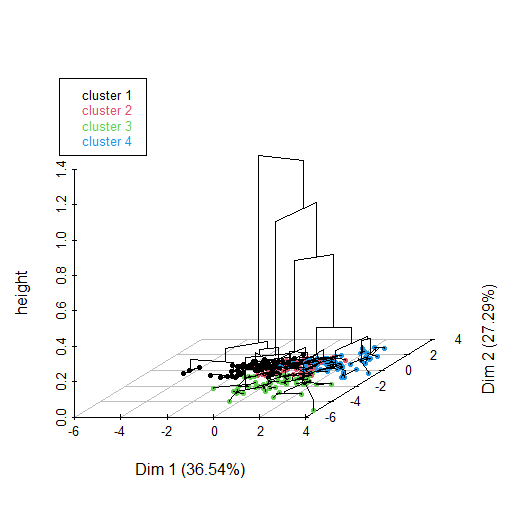
* high values for the variables *Mean\_Vimentin*, *Osteopontin* and *Hyaluronic\_Acid* (variables are sorted from the strongest).
* low values for the variables *Cell\_Number*, *Mean\_Ecad*, *CollagenIV* and *CollagenI* (variables are sorted from the weakest).

The **cluster 3** is made of individuals such as *4* and *60*. This group is characterized by :

* high values for the variables *Survival\_20µM*, *Proliferation\_20µM*, *Survival\_10µM* and *Fibronectin* (variables are sorted from the strongest).
* low values for the variables *Proliferation\_DMSO*, *Mean\_Vimentin*, *CollagenI*, *Cell\_Number*, *Mean\_PXR*, *Mean\_Ecad* and *CollagenIV* (variables are sorted from the weakest).

The **cluster 4** is made of individuals sharing :

* high values for the variables *Mean\_Ecad*, *Mean\_PXR*, *CollagenI* and *Laminin* (variables are sorted from the strongest).
* low values for the variable *Cell\_Number*.



**Figure 1.3 - Hierarchical tree on the factorial map.**

The hierarchical tree can be drawn on the factorial map with the individuals colored according to their clusters.