Principal Component Analysis

Dataset tt

This dataset contains 232 individuals and 3524 variables.

1. Study of the outliers

The analysis of the graphs does not detect any outlier.

2. Inertia distribution

The inertia of the first dimensions shows if there are strong relationships between variables and suggests the number of dimensions that should be studied.

The first two dimensions of analyse express 20.48% of the total dataset inertia; that means that 20.48% of the individuals (or variables) cloud total variability is explained by the plane. This is a small percentage and the first plane just represents a part of the data variability. This value is greater than the reference value that equals 1.36%, the variability explained by this plane is thus significant (the reference value is the 0.95-quantile of the inertia percentages distribution obtained by simulating 101 data tables of equivalent size on the basis of a normal distribution).

From these observations, it is interesting to consider the next dimensions which also express a high percentage of the total inertia.

Decomposition of the total inertia

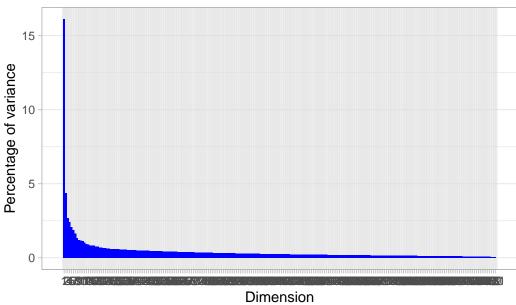


Figure 2 - Decomposition of the total inertia

An estimation of the right number of axis to interpret suggests to restrict the analysis to the description of the first 30 axis. These axis present an amount of inertia greater than those obtained by the 0.95-quantile of random distributions (49.73% against 18.6%). This observation suggests that only these axis are carrying a real information. As a consequence, the description will stand to these axis.

3. Description of the plane 1:2

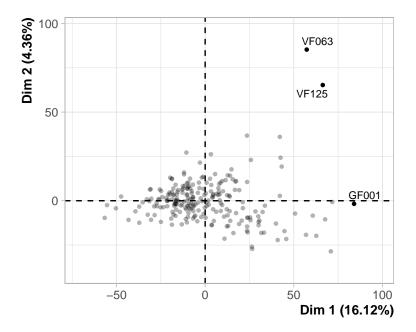


Figure 3.1 - Individuals factor map (PCA) The labeled individuals are those with the higher contribution to the plane construction.

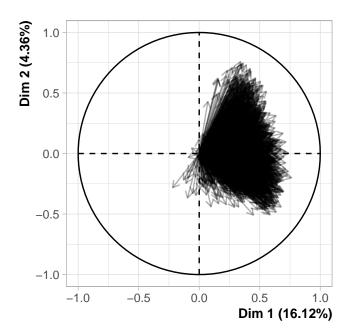


Figure 3.2 - Variables factor map (PCA) The labeled variables are those the best shown on the plane.

The **dimension 1** opposes individuals such as GF001, VF063 and VF125 (to the right of the graph, characterized by a strongly positive coordinate on the axis) to individuals characterized by a strongly negative coordinate on the axis (to the left of the graph).

The group in which the individual GF001 stands (characterized by a positive coordinate on the axis) is sharing:

• high values for variables like hsa-miR-1305-5p:Novel, hsa-miR-3177-5p, hsa-miR-4636-3p:Novel, hsa-miR-6746-5p, hsa-miR-2681-5p, hsa-miR-518c-5p, hsa-miR-3649, hsa-miR-1283, hsa-miR-4708-5p and hsa-miR-12114-3p:Novel (variables are sorted from the strongest).

The group in which the individuals VF063 and VF125 stand (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-335-3p, hsa-miR-200a-5p, hsa-miR-28-3p, hsa-miR-27b-3p, hsa-miR-375-3p, hsa-miR-10a-5p, hsa-miR-215-5p, hsa-miR-30e-3p, hsa-miR-374a-3p and hsa-miR-103b-3p: Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-378h, hsa-miR-3138-5p:Novel, hsa-miR-657-5p:Novel, hsa-miR-378f, hsa-miR-147a-5p:Novel, hsa-miR-8074-5p:Novel, hsa-miR-371a-3p, hsa-miR-6738-5p, hsa-miR-3622a-5p and hsa-miR-5687-5p:Novel (variables are sorted from the weakest).

The group 3 (characterized by a negative coordinate on the axis) is sharing:

- high values for the variables $hsa\text{-}miR\text{-}3689d\text{-}3p\text{:}Novel, hsa\text{-}miR\text{-}657\text{-}5p\text{:}Novel}$ and hsa-miR-6777-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-3612-3p:Novel, hsa-miR-5694-3p:Novel, hsa-miR-4518-5p:Novel, hsa-miR-9903, hsa-miR-4323, hsa-miR-4635-5p:Novel, hsa-miR-4274, hsa-miR-2277-5p, hsa-miR-3199-3p:Novel and hsa-miR-4422 (variables are sorted from the weakest).

The dimension 2 opposes individuals such as VF063 and VF125 (to the top of the graph, characterized by a strongly positive coordinate on the axis) to individuals such as ** and GF001 (to the bottom of the graph,

characterized by a strongly negative coordinate on the axis).

The group in which the individuals VF063 and VF125 stand (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-335-3p, hsa-miR-200a-5p, hsa-miR-28-3p, hsa-miR-27b-3p, hsa-miR-375-3p, hsa-miR-10a-5p, hsa-miR-215-5p, hsa-miR-30e-3p, hsa-miR-374a-3p and hsa-miR-103b-3p: Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-378h, hsa-miR-3138-5p:Novel, hsa-miR-657-5p:Novel, hsa-miR-378f, hsa-miR-147a-5p:Novel, hsa-miR-8074-5p:Novel, hsa-miR-371a-3p, hsa-miR-6738-5p, hsa-miR-3622a-5p and hsa-miR-5687-5p:Novel (variables are sorted from the weakest).

The group in which the individual GF001 stands (characterized by a negative coordinate on the axis) is sharing:

• high values for variables like hsa-miR-1305-5p:Novel, hsa-miR-3177-5p, hsa-miR-4636-3p:Novel, hsa-miR-6746-5p, hsa-miR-2681-5p, hsa-miR-518c-5p, hsa-miR-3649, hsa-miR-1283, hsa-miR-4708-5p and hsa-miR-12114-3p:Novel (variables are sorted from the strongest).

4. Description of the plane 3:4

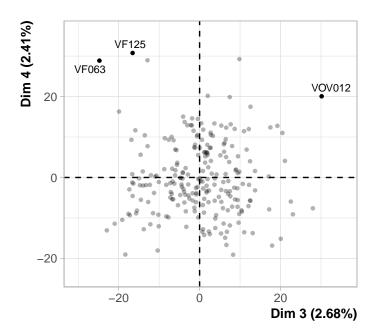


Figure 4.1 - Individuals factor map (PCA) The labeled individuals are those with the higher contribution to the plane construction.

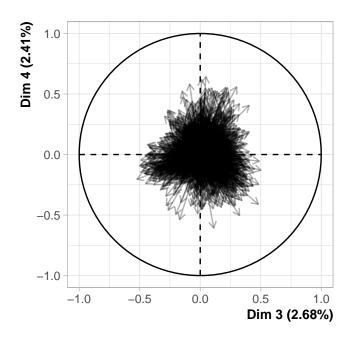


Figure 4.2 - Variables factor map (PCA) The labeled variables are those the best shown on the plane.

The **dimension 3** opposes individuals such as VOV012, VF125 and VF063 (to the right of the graph, characterized by a strongly positive coordinate on the axis) to individuals characterized by a strongly negative coordinate on the axis (to the left of the graph).

The group in which the individuals VOV012, VF125 and VF063 stand (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-4309-3p:Novel, hsa-miR-5189-3p, hsa-miR-3170, hsa-miR-2113-5p:Novel, hsa-miR-4534, hsa-miR-134-5p, hsa-miR-544b, hsa-miR-5193-5p:Novel, hsa-miR-4324-5p:Novel and hsa-miR-4296 (variables are sorted from the strongest).
- low values for variables like hsa-miR-2115-3p, hsa-miR-6081, hsa-miR-4257-5p:Novel, hsa-miR-6849-5p, hsa-miR-3972-5p:Novel, hsa-miR-4422, hsa-miR-378i, hsa-miR-642a-3p, hsa-miR-9899-5p:Novel and hsa-miR-4648 (variables are sorted from the weakest).

The group 2 (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-6748-3p, hsa-miR-4476-5p:Novel, hsa-miR-924-3p:Novel, hsa-miR-6077, hsa-miR-8075, hsa-miR-1181, hsa-miR-6809-5p, hsa-miR-4466-3p:Novel, hsa-miR-8075-5p:Novel and hsa-miR-4519 (variables are sorted from the strongest).
- low values for variables like hsa-miR-300, hsa-miR-4528-5p:Novel, hsa-miR-1203, hsa-miR-4309-3p:Novel, hsa-miR-611, hsa-miR-3138-5p:Novel, hsa-miR-5193-5p:Novel, hsa-miR-4738-3p, hsa-miR-4270-3p:Novel and hsa-miR-943-5p:Novel (variables are sorted from the weakest).

The group 3 (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-4750-3p, hsa-miR-2681-5p, hsa-miR-4636, hsa-let-7g-3p, hsa-miR-8071-5p: Novel, hsa-miR-3920-5p: Novel, hsa-miR-6505-5p, $hsa\text{-}miR\text{-}548h\text{-}2\text{-}3p}$: Novel and hsa-miR-12119-3p: Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-6788-3p, hsa-miR-1286, hsa-miR-12118, hsa-miR-4505, hsa-miR-378c, hsa-miR-148a-5p, hsa-miR-4283, hsa-miR-3169, hsa-miR-4534 and hsa-miR-940 (variables are sorted from the weakest).

The dimension 4 opposes individuals such as VOV012, VF125 and VF063 (to the top of the graph, characterized by a strongly positive coordinate on the axis) to individuals characterized by a strongly negative coordinate on the axis (to the bottom of the graph).

The group in which the individuals VOV012, VF125 and VF063 stand (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-4309-3p:Novel, hsa-miR-5189-3p, hsa-miR-3170, hsa-miR-2113-5p:Novel, hsa-miR-4534, hsa-miR-134-5p, hsa-miR-544b, hsa-miR-5193-5p:Novel, hsa-miR-4324-5p:Novel and hsa-miR-4296 (variables are sorted from the strongest).
- low values for variables like hsa-miR-2115-3p, hsa-miR-6081, hsa-miR-4257-5p: Novel, hsa-miR-6849-5p, hsa-miR-3972-5p: Novel, hsa-miR-4422, hsa-miR-378i, hsa-miR-642a-3p, hsa-miR-9899-5p: Novel and hsa-miR-4648 (variables are sorted from the weakest).

The group 2 (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-4750-3p, hsa-miR-2681-5p, hsa-miR-4636, hsa-let-7g-3p, hsa-miR-8071-5p: Novel, hsa-miR-3920-5p: Novel, hsa-miR-6505-5p, hsa-miR-548h-2-3p: Novel and hsa-miR-12119-3p: Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-6788-3p, hsa-miR-1286, hsa-miR-12118, hsa-miR-4505, hsa-miR-378c, hsa-miR-148a-5p, hsa-miR-4283, hsa-miR-3169, hsa-miR-4534 and hsa-miR-940 (variables are sorted from the weakest).

The group 3 (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-6748-3p, hsa-miR-4476-5p:Novel, hsa-miR-924-3p:Novel, hsa-miR-6077, hsa-miR-8075, hsa-miR-1181, hsa-miR-6809-5p, hsa-miR-4466-3p:Novel, hsa-miR-8075-5p:Novel and hsa-miR-4519 (variables are sorted from the strongest).
- low values for variables like hsa-miR-300, hsa-miR-4528-5p:Novel, hsa-miR-1203, hsa-miR-4309-3p:Novel, hsa-miR-611, hsa-miR-3138-5p:Novel, hsa-miR-5193-5p:Novel, hsa-miR-4738-3p, hsa-miR-4270-3p:Novel and hsa-miR-943-5p:Novel (variables are sorted from the weakest).

5. Description of the plane 5:6

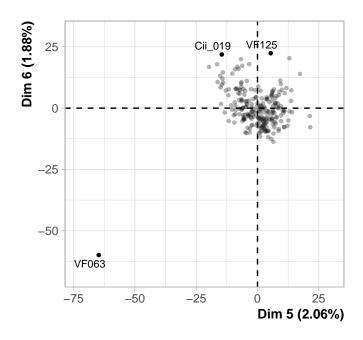


Figure 5.1 - Individuals factor map (PCA) The labeled individuals are those with the higher contribution to the plane construction.

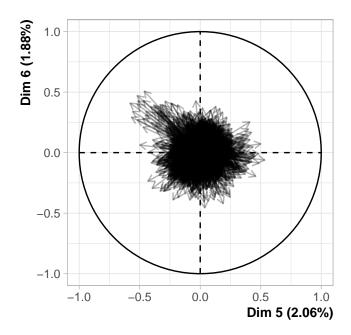


Figure 5.2 - Variables factor map (PCA) The labeled variables are those the best shown on the plane.

The dimension 5 opposes individuals characterized by a strongly positive coordinate on the axis (to the right of the graph) to individuals such as *VF063Cii_019* (to the left of the graph, characterized by a strongly negative coordinate on the axis).

The group 1 (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-5189-3p, hsa-miR-4667-3p, hsa-miR-6074-5p: Novel, hsa-miR-4296, hsa-miR-6768-5p, hsa-miR-598-5p, hsa-miR-134-5p, hsa-miR-3125, hsa-miR-92a-1-5p and hsa-miR-588-3p: Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-411-5p, hsa-miR-4519, hsa-miR-4254-5p: Novel, hsa-miR-4476-5p: Novel, hsa-miR-4687-3p, hsa-miR-4327, hsa-miR-378b-5p: Novel, hsa-miR-429, hsa-miR-7852-3p and hsa-miR-7852-5p: Novel (variables are sorted from the weakest).

The group in which the individual VF063 stands (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-548j-3p, hsa-miR-511-5p, hsa-miR-1343-3p, hsa-miR-340-3p, hsa-miR-331-3p, hsa-miR-374a-5p, hsa-miR-218-1-3p, hsa-miR-4999-5p, hsa-miR-335-3p and hsa-miR-361-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-657-5p: Novel, hsa-miR-11399-3p: Novel, hsa-miR-371a-5p, hsa-miR-6849-5p, hsa-miR-655-5p, hsa-miR-6084-5p: Novel, hsa-miR-6867-5p, hsa-miR-4311-3p: Novel, hsa-miR-504-5p and hsa-miR-2861 (variables are sorted from the weakest).

The group in which the individual Cii_019 stands (characterized by a negative coordinate on the axis) is sharing:

• high values for variables like hsa-miR-411-5p, hsa-miR-4519, hsa-miR-4476-5p:Novel, hsa-miR-378b-5p:Novel, hsa-miR-4254-5p:Novel, hsa-miR-429, hsa-miR-7852-3p, hsa-miR-4327, hsa-miR-4687-3p and hsa-miR-7852-5p:Novel (variables are sorted from the strongest).

• low values for variables like hsa-miR-5189-3p, hsa-miR-3125, hsa-miR-6768-5p, hsa-miR-134-5p, hsa-miR-3691-3p, hsa-miR-6515-5p, hsa-miR-4667-3p, hsa-miR-6790-5p, hsa-miR-5193-5p: Novel and hsa-miR-3180-5p (variables are sorted from the weakest).

The **dimension 6** opposes individuals such as Cii_019 (to the top of the graph, characterized by a strongly positive coordinate on the axis) to individuals such as VF063 (to the bottom of the graph, characterized by a strongly negative coordinate on the axis).

The group in which the individual Cii_019 stands (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-411-5p, hsa-miR-4519, hsa-miR-4476-5p:Novel, hsa-miR-378b-5p:Novel, hsa-miR-4254-5p:Novel, hsa-miR-429, hsa-miR-7852-3p, hsa-miR-4327, hsa-miR-4687-3p and hsa-miR-7852-5p:Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-5189-3p, hsa-miR-3125, hsa-miR-6768-5p, hsa-miR-134-5p, hsa-miR-3691-3p, hsa-miR-6515-5p, hsa-miR-4667-3p, hsa-miR-6790-5p, hsa-miR-5193-5p: Novel and hsa-miR-3180-5p (variables are sorted from the weakest).

The group in which the individual VF063 stands (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-548j-3p, hsa-miR-511-5p, hsa-miR-1343-3p, hsa-miR-340-3p, hsa-miR-331-3p, hsa-miR-374a-5p, hsa-miR-218-1-3p, hsa-miR-4999-5p, hsa-miR-335-3p and hsa-miR-361-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-657-5p: Novel, hsa-miR-11399-3p: Novel, hsa-miR-371a-5p, hsa-miR-6849-5p, hsa-miR-655-5p, hsa-miR-6084-5p: Novel, hsa-miR-6867-5p, hsa-miR-4311-3p: Novel, hsa-miR-504-5p and hsa-miR-2861 (variables are sorted from the weakest).

The group 3 (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-5189-3p, hsa-miR-4667-3p, hsa-miR-6074-5p: Novel, hsa-miR-4296, hsa-miR-6768-5p, hsa-miR-598-5p, hsa-miR-134-5p, hsa-miR-3125, hsa-miR-92a-1-5p and hsa-miR-588-3p: Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-411-5p, hsa-miR-4519, hsa-miR-4254-5p: Novel, hsa-miR-4476-5p: Novel, hsa-miR-4687-3p, hsa-miR-4327, hsa-miR-378b-5p: Novel, hsa-miR-429, hsa-miR-7852-3p and hsa-miR-7852-5p: Novel (variables are sorted from the weakest).

8

6. Description of the plane 7:8

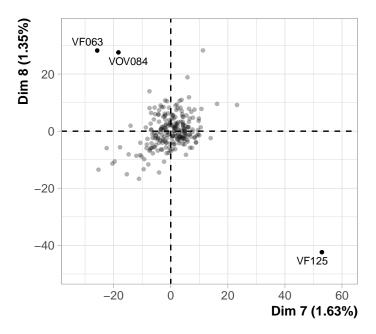


Figure 6.1 - Individuals factor map (PCA) The labeled individuals are those with the higher contribution to the plane construction.

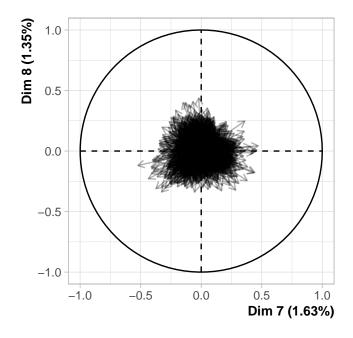


Figure 6.2 - Variables factor map (PCA) The labeled variables are those the best shown on the plane.

The dimension 7 opposes individuals such as VF125, VOV084 and VF063 (to the right of the graph, characterized by a strongly positive coordinate on the axis) to individuals characterized by a strongly negative coordinate on the axis (to the left of the graph).

The group in which the individuals VOV084 and VF063 stand (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-378h, hsa-miR-3689d-3p:Novel, hsa-miR-1267, hsa-miR-6509-5p, hsa-miR-1295a, hsa-miR-6773-5p, hsa-miR-4264-3p:Novel, hsa-miR-3619-3p, hsa-miR-5585-5p and hsa-miR-494-3p (variables are sorted from the strongest).
- low values for variables like hsa-miR-6871-3p, hsa-miR-2110-3p:Novel, hsa-miR-650, hsa-miR-3621-3p:Novel, hsa-miR-10392-5p, hsa-miR-6806-3p, hsa-miR-1255b-5p, hsa-miR-6862-3p, hsa-miR-378b-5p:Novel and hsa-miR-1587-3p:Novel (variables are sorted from the weakest).

The group in which the individual VF125 stands (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-892c-5p, hsa-miR-7153-3p, hsa-miR-548am-3p, hsa-miR-1302-7-5p: Novel, hsa-miR-196a-1-3p, hsa-miR-1229-3p, hsa-miR-4742-3p, hsa-miR-877-3p, hsa-miR-548ab and hsa-miR-5579-3p (variables are sorted from the strongest).
- low values for variables like hsa-miR-4494, hsa-miR-595-5p: Novel, hsa-miR-504-5p, hsa-miR-1250-5p, hsa-miR-12128, hsa-miR-5100, hsa-miR-6816-3p, hsa-miR-4279, hsa-miR-5698 and hsa-miR-635-3p: Novel (variables are sorted from the weakest).

The group 3 (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-6871-3p, hsa-miR-2110-3p:Novel, hsa-miR-6806-3p, hsa-miR-583-3p:Novel, hsa-miR-3621-3p:Novel, hsa-miR-378b-5p:Novel, hsa-miR-650, hsa-miR-10392-5p, hsa-miR-4489-3p:Novel and hsa-miR-1255b-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-1267, hsa-miR-378h, hsa-miR-338-3p, hsa-miR-494-3p, hsa-miR-6081, hsa-miR-1208, hsa-miR-6773-5p, hsa-miR-9986, hsa-miR-6895-3p and hsa-miR-3689d-3p: Novel (variables are sorted from the weakest).

The dimension 8 opposes individuals such as VOV084 and VF063 (to the top of the graph, characterized by a strongly positive coordinate on the axis) to individuals such as ** and VF125 (to the bottom of the graph, characterized by a strongly negative coordinate on the axis).

The group in which the individuals VOV084 and VF063 stand (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-378h, hsa-miR-3689d-3p:Novel, hsa-miR-1267, hsa-miR-6509-5p, hsa-miR-1295a, hsa-miR-6773-5p, hsa-miR-4264-3p:Novel, hsa-miR-3619-3p, hsa-miR-5585-5p and hsa-miR-494-3p (variables are sorted from the strongest).
- low values for variables like hsa-miR-6871-3p, hsa-miR-2110-3p:Novel, hsa-miR-650, hsa-miR-3621-3p:Novel, hsa-miR-10392-5p, hsa-miR-6806-3p, hsa-miR-1255b-5p, hsa-miR-6862-3p, hsa-miR-378b-5p:Novel and hsa-miR-1587-3p:Novel (variables are sorted from the weakest).

The group 2 (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-6871-3p, hsa-miR-2110-3p:Novel, hsa-miR-6806-3p, hsa-miR-583-3p:Novel, hsa-miR-3621-3p:Novel, hsa-miR-378b-5p:Novel, hsa-miR-650, hsa-miR-10392-5p, hsa-miR-4489-3p:Novel and hsa-miR-1255b-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-1267, hsa-miR-378h, hsa-miR-338-3p, hsa-miR-494-3p, hsa-miR-6081, hsa-miR-1208, hsa-miR-6773-5p, hsa-miR-9986, hsa-miR-6895-3p and hsa-miR-3689d-3p:Novel (variables are sorted from the weakest).

The group in which the individual VF125 stands (characterized by a negative coordinate on the axis) is sharing:

• high values for variables like hsa-miR-892c-5p, hsa-miR-7153-3p, hsa-miR-548am-3p, hsa-miR-1302-7-5p:Novel, hsa-miR-196a-1-3p, hsa-miR-1229-3p, hsa-miR-4742-3p, hsa-miR-877-3p, hsa-miR-548ab and hsa-miR-5579-3p (variables are sorted from the strongest).

• low values for variables like hsa-miR-4494, hsa-miR-595-5p:Novel, hsa-miR-504-5p, hsa-miR-1250-5p, hsa-miR-12128, hsa-miR-5100, hsa-miR-6816-3p, hsa-miR-4279, hsa-miR-5698 and hsa-miR-635-3p:Novel (variables are sorted from the weakest).

7. Description of the plane 9:10

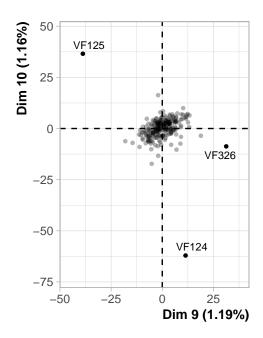


Figure 7.1 - Individuals factor map (PCA) The labeled individuals are those with the higher contribution to the plane construction.

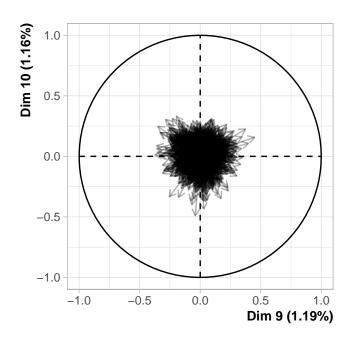


Figure 7.2 - Variables factor map (PCA) The labeled variables are those the best shown on the plane.

The dimension 9 opposes individuals such as VF326 (to the right of the graph, characterized by a strongly positive coordinate on the axis) to individuals such as VF125 (to the left of the graph, characterized by a strongly negative coordinate on the axis).

The group in which the individual VF326 stands (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-1281-5p:Novel, hsa-miR-655-5p, hsa-miR-6846-5p, hsa-miR-4496-5p:Novel, hsa-miR-3689d-3p:Novel, hsa-miR-1276-3p:Novel, hsa-miR-3171-3p:Novel, hsa-miR-548ag-5p, hsa-miR-4492 and hsa-miR-1306-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-425-3p, hsa-miR-3714-3p:Novel, hsa-miR-365a-3p, hsa-miR-3689a-3p, hsa-miR-6846-3p, hsa-miR-6080, hsa-miR-7106-3p, hsa-miR-7856-3p:Novel, hsa-miR-6741-3p and hsa-miR-941 (variables are sorted from the weakest).

The group in which the individual VF125 stands (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-196a-1-3p, hsa-miR-7153-3p, hsa-miR-323a-3p, hsa-miR-4423-3p, hsa-let-7b-3p, hsa-miR-548o-5p:Novel, hsa-miR-526b-5p, hsa-miR-892c-5p, hsa-miR-4742-3p and hsa-miR-376a-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-4494, hsa-miR-6816-3p, hsa-miR-504-5p, hsa-miR-595-5p: Novel, hsa-miR-4489, hsa-miR-4279, hsa-miR-657-5p: Novel, hsa-miR-1250-5p, hsa-miR-4738-3p and hsa-miR-5698 (variables are sorted from the weakest).

The group 3 (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-6846-3p, hsa-miR-3714-3p:Novel, hsa-miR-6741-3p, hsa-miR-6748-3p, hsa-miR-550a-3p, hsa-miR-550a-3p, hsa-miR-6748-3p, hsa-miR-6848-3p, hsa-miR-5693-5p:Novel and hsa-miR-6778-3p (variables are sorted from the strongest).
- low values for variables like hsa-miR-655-5p, hsa-miR-1281-5p:Novel, hsa-miR-4496-5p:Novel, hsa-miR-4492, hsa-miR-4791, hsa-miR-1276-3p:Novel, hsa-miR-12-5p:Novel, hsa-miR-3664-3p and hsa-miR-198-3p:Novel (variables are sorted from the weakest).

The dimension 10 opposes individuals such as VF125 and VF326 (to the top of the graph, characterized by a strongly positive coordinate on the axis) to individuals such as ** and VF124 (to the bottom of the graph, characterized by a strongly negative coordinate on the axis).

The group in which the individual VF125 stands (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-196a-1-3p, hsa-miR-7153-3p, hsa-miR-323a-3p, hsa-miR-4423-3p, hsa-let-7b-3p, hsa-miR-548o-5p:Novel, hsa-miR-526b-5p, hsa-miR-892c-5p, hsa-miR-4742-3p and hsa-miR-376a-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-4494, hsa-miR-6816-3p, hsa-miR-504-5p, hsa-miR-595-5p:Novel, hsa-miR-4489, hsa-miR-4279, hsa-miR-657-5p:Novel, hsa-miR-1250-5p, hsa-miR-4738-3p and hsa-miR-5698 (variables are sorted from the weakest).

The group in which the individual VF326 stands (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-1281-5p:Novel, hsa-miR-655-5p, hsa-miR-6846-5p, hsa-miR-4496-5p:Novel, hsa-miR-3689d-3p:Novel, hsa-miR-1276-3p:Novel, hsa-miR-3171-3p:Novel, hsa-miR-548ag-5p, hsa-miR-4492 and hsa-miR-1306-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-425-3p, hsa-miR-3714-3p: Novel, hsa-miR-365a-3p, hsa-miR-365b-3p, hsa-miR-3689a-3p, hsa-miR-6846-3p, hsa-miR-6080, hsa-miR-7106-3p, hsa-miR-7856-3p: Novel, hsa-miR-6741-3p and hsa-miR-941 (variables are sorted from the weakest).

The group 3 (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-6846-3p, hsa-miR-3714-3p:Novel, hsa-miR-6741-3p, hsa-miR-425-3p, hsa-miR-550a-3p, hsa-miR-6748-3p, hsa-miR-7106-3p, hsa-miR-6848-3p, hsa-miR-5693-5p:Novel and hsa-miR-6778-3p (variables are sorted from the strongest).
- low values for variables like hsa-miR-655-5p, hsa-miR-1281-5p: Novel, hsa-miR-4496-5p: Novel, hsa-miR-4492, hsa-miR-4791, hsa-miR-1276-3p: Novel, hsa-miR-1-2-5p: Novel, hsa-miR-3664-3p and hsa-miR-198-3p: Novel (variables are sorted from the weakest).

The group in which the individual VF124 stands (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-450b-5p, hsa-miR-6817-3p, hsa-miR-4520-2-3p, hsa-miR-6737-3p, hsa-miR-382-3p, hsa-miR-3925-3p, hsa-miR-210-5p, hsa-miR-216b-3p, hsa-miR-3191-5p and hsa-miR-449b-3p (variables are sorted from the strongest).
- low values for variables like hsa-miR-12118-3p:Novel, hsa-miR-6838-5p, hsa-miR-3155b, hsa-miR-1284, hsa-miR-4283, hsa-miR-6772-5p, hsa-miR-4674, hsa-miR-4513-3p:Novel, hsa-miR-4674-5p:Novel and hsa-miR-378h (variables are sorted from the weakest).

8. Description of the plane 11:12

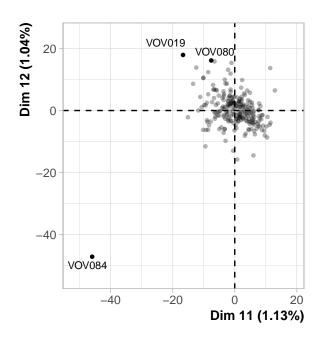


Figure 8.1 - Individuals factor map (PCA) The labeled individuals are those with the higher contribution to the plane construction.

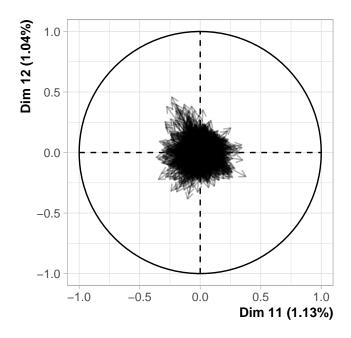


Figure 8.2 - Variables factor map (PCA) The labeled variables are those the best shown on the plane.

The dimension 11 opposes individuals characterized by a strongly positive coordinate on the axis (to the right of the graph) to individuals such as VOV084VOV019VOV080 (to the left of the graph, characterized by a strongly negative coordinate on the axis).

The group 1 (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-3164-3p:Novel, hsa-miR-4519, hsa-miR-429, hsa-miR-1282-3p:Novel, hsa-miR-940-5p:Novel, hsa-miR-1286, hsa-miR-378b-5p:Novel, hsa-miR-4537-3p:Novel, hsa-miR-1324-5p:Novel and hsa-miR-4327 (variables are sorted from the strongest).
- low values for variables like hsa-miR-302c-5p, hsa-miR-6780a-5p, hsa-miR-4771-5p: Novel, hsa-miR-137-5p, hsa-miR-3911-3p: Novel, hsa-miR-4660-3p: Novel, hsa-miR-647, hsa-miR-5008-5p, hsa-miR-8059-3p: Novel and hsa-miR-8075-5p: Novel (variables are sorted from the weakest).

The group in which the individual VOV084 stands (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-4481, hsa-miR-7109-3p, hsa-miR-520c-3p, hsa-miR-6769b-3p, hsa-miR-520b-3p, hsa-miR-548f-5p, hsa-miR-548k, hsa-miR-6883-3p, hsa-miR-122b-3p and hsa-miR-664a-3p (variables are sorted from the strongest).
- low values for variables like hsa-miR-3138-5p:Novel, hsa-miR-646-5p:Novel, hsa-miR-5093, hsa-miR-550b-2-5p, hsa-miR-4431, hsa-miR-4534, hsa-miR-4283-3p:Novel, hsa-miR-124-3p, hsa-miR-3976-3p:Novel and hsa-miR-3155a (variables are sorted from the weakest).

The group in which the individuals VOV019 and VOV080 stand (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-302c-5p, hsa-miR-6780a-5p, hsa-miR-137-5p, hsa-miR-4771-5p: Novel, hsa-miR-3911-3p: Novel, hsa-miR-5008-5p, hsa-miR-4660-3p: Novel, hsa-miR-647, hsa-miR-8059-3p: Novel and hsa-miR-6846-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-3164-3p:Novel, hsa-miR-1282-3p:Novel, hsa-miR-4519, hsa-miR-429, hsa-miR-940-5p:Novel, hsa-miR-1286, hsa-miR-7158-3p, hsa-miR-4327, hsa-miR-935-5p:Novel and hsa-miR-622-5p:Novel (variables are sorted from the weakest).

The dimension 12 opposes individuals such as VOV019 and VOV080 (to the top of the graph, characterized by a strongly positive coordinate on the axis) to individuals such as ** and VOV084 (to the bottom of the graph, characterized by a strongly negative coordinate on the axis).

The group in which the individuals VOV019 and VOV080 stand (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-302c-5p, hsa-miR-6780a-5p, hsa-miR-137-5p, hsa-miR-4771-5p: Novel, hsa-miR-3911-3p: Novel, hsa-miR-5008-5p, hsa-miR-4660-3p: Novel, hsa-miR-647, hsa-miR-8059-3p: Novel and hsa-miR-6846-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-3164-3p:Novel, hsa-miR-1282-3p:Novel, hsa-miR-4519, hsa-miR-4519, hsa-miR-940-5p:Novel, hsa-miR-1286, hsa-miR-7158-3p, hsa-miR-4327, hsa-miR-935-5p:Novel and hsa-miR-622-5p:Novel (variables are sorted from the weakest).

The group in which the individual VOV084 stands (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-4481, hsa-miR-7109-3p, hsa-miR-520c-3p, hsa-miR-6769b-3p, hsa-miR-520b-3p, hsa-miR-548f-5p, hsa-miR-548k, hsa-miR-6883-3p, hsa-miR-122b-3p and hsa-miR-664a-3p (variables are sorted from the strongest).
- low values for variables like hsa-miR-3138-5p:Novel, hsa-miR-646-5p:Novel, hsa-miR-5093, hsa-miR-550b-2-5p, hsa-miR-4431, hsa-miR-4534, hsa-miR-4283-3p:Novel, hsa-miR-124-3p, hsa-miR-3976-3p:Novel and hsa-miR-3155a (variables are sorted from the weakest).

The group 3 (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-3164-3p:Novel, hsa-miR-4519, hsa-miR-429, hsa-miR-1282-3p:Novel, hsa-miR-940-5p:Novel, hsa-miR-1286, hsa-miR-378b-5p:Novel, hsa-miR-4537-3p:Novel, hsa-miR-1324-5p:Novel and hsa-miR-4327 (variables are sorted from the strongest).
- low values for variables like hsa-miR-302c-5p, hsa-miR-6780a-5p, hsa-miR-4771-5p:Novel, hsa-miR-137-5p, hsa-miR-3911-3p:Novel, hsa-miR-4660-3p:Novel, hsa-miR-647, hsa-miR-5008-5p, hsa-miR-8059-3p:Novel and hsa-miR-8075-5p:Novel (variables are sorted from the weakest).

15

9. Description of the plane 13:14

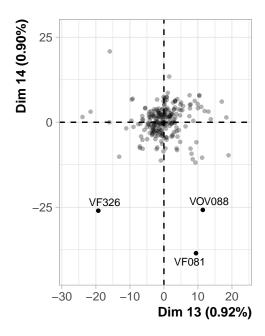


Figure 9.1 - Individuals factor map (PCA) The labeled individuals are those with the higher contribution to the plane construction.

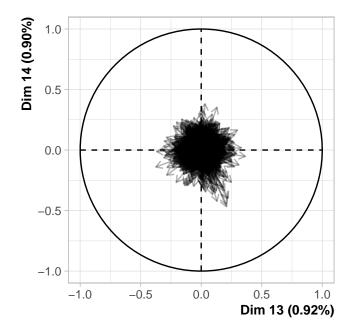


Figure 9.2 - Variables factor map (PCA) The labeled variables are those the best shown on the plane.

The dimension 13 opposes individuals such as VF081 and VOV088 (to the right of the graph, characterized by a strongly positive coordinate on the axis) to individuals such as ** and VF326 (to the left of the graph, characterized by a strongly negative coordinate on the axis).

The group 1 (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-195-3p, hsa-miR-3972, hsa-miR-297-3p:Novel, hsa-miR-9898, hsa-miR-622-5p:Novel, hsa-miR-3198-5p:Novel, hsa-miR-4422, hsa-miR-6732-5p, hsa-miR-4468-5p:Novel and hsa-miR-657-5p:Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-648-3p:Novel, hsa-miR-665, hsa-miR-3158-5p, hsa-miR-6873-3p, hsa-miR-6875-5p, hsa-miR-455-3p, hsa-miR-6508-3p, hsa-miR-6733-5p, hsa-miR-10397-5p and hsa-miR-15a-3p (variables are sorted from the weakest).

The group in which the individuals VF081 and VOV088 stand (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-941, hsa-miR-648-3p:Novel, hsa-miR-518d-3p, hsa-miR-130b-5p, hsa-miR-628-3p, hsa-miR-612, hsa-miR-1249-3p and hsa-miR-3154 (variables are sorted from the strongest).
- low values for variables like hsa-miR-7113-5p, hsa-miR-9898, hsa-miR-10395-5p, hsa-miR-4327-3p:Novel, hsa-miR-654-5p, hsa-miR-4710-3p:Novel, hsa-miR-4675-5p:Novel, hsa-miR-6124, hsa-miR-8077-5p:Novel and hsa-miR-3690-3p:Novel (variables are sorted from the weakest).

The group in which the individual VF326 stands (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-193b-3p, hsa-miR-2278-3p:Novel, hsa-miR-665, hsa-miR-6715a-5p:Novel, hsa-miR-3201-3p:Novel, hsa-miR-6715b-5p, hsa-miR-4725-3p, hsa-miR-5195-3p, hsa-miR-11181-5p and hsa-miR-3123-5p:Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-1200, hsa-miR-4269, hsa-miR-1290-5p:Novel, $hsa\text{-}miR\text{-}1246\text{-}}3p\text{:}Novel$, hsa-miR-2117-5p:Novel, hsa-miR-5706-3p:Novel, hsa-miR-6835-5p, hsa-miR-378b, hsa-miR-4486-3p:Novel and hsa-miR-12120-3p:Novel (variables are sorted from the weakest).

The dimension 14 opposes individuals characterized by a strongly positive coordinate on the axis (to the top of the graph) to individuals such as VF081VOV088 (to the bottom of the graph, characterized by a strongly negative coordinate on the axis).

The group 1 (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-195-3p, hsa-miR-3972, hsa-miR-297-3p:Novel, hsa-miR-9898, hsa-miR-622-5p:Novel, hsa-miR-3198-5p:Novel, hsa-miR-4422, hsa-miR-6732-5p, hsa-miR-4468-5p:Novel and hsa-miR-657-5p:Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-648-3p:Novel, hsa-miR-665, hsa-miR-3158-5p, hsa-miR-6873-3p, hsa-miR-6875-5p, hsa-miR-455-3p, hsa-miR-6508-3p, hsa-miR-6733-5p, hsa-miR-10397-5p and hsa-miR-15a-3p (variables are sorted from the weakest).

The group in which the individuals VF081 and VOV088 stand (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-941, hsa-miR-648-3p: Novel, hsa-miR-518d-3p, hsa-miR-130b-5p, hsa-miR-628-3p, hsa-miR-612, hsa-miR-1249-3p and hsa-miR-3154 (variables are sorted from the strongest).
- low values for variables like hsa-miR-7113-5p, hsa-miR-9898, hsa-miR-10395-5p, hsa-miR-4327-3p:Novel, hsa-miR-654-5p, hsa-miR-4710-3p:Novel, hsa-miR-4675-5p:Novel, hsa-miR-6124, hsa-miR-8077-5p:Novel and hsa-miR-3690-3p:Novel (variables are sorted from the weakest).

10. Description of the plane 15:16

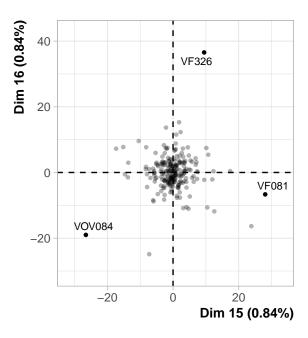


Figure 10.1 - Individuals factor map (PCA) The labeled individuals are those with the higher contribution to the plane construction.

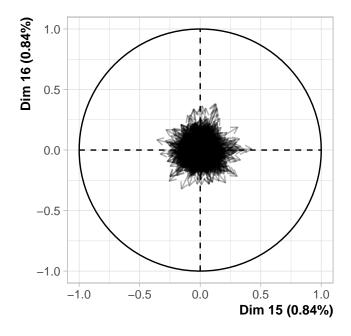


Figure 10.2 - Variables factor map (PCA) The labeled variables are those the best shown on the plane.

The dimension 15 opposes individuals such as VF081 (to the right of the graph, characterized by a strongly positive coordinate on the axis) to individuals such as VOV084 (to the left of the graph, characterized by a strongly negative coordinate on the axis).

The group 1 (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-6736-5p, hsa-miR-3185-3p:Novel, hsa-miR-6134-5p:Novel, hsa-miR-633b-3p, hsa-miR-6746-5p, hsa-miR-614, hsa-miR-11399, hsa-miR-892c-5p, hsa-miR-483-5p and hsa-miR-548ao-3p (variables are sorted from the strongest).
- low values for variables like hsa-miR-5094, hsa-miR-4508-3p:Novel, hsa-miR-8086, hsa-miR-8072-3p:Novel, hsa-miR-4488-3p:Novel, hsa-miR-4800-3p, hsa-miR-10400-5p, hsa-miR-6131-5p:Novel, hsa-miR-647-3p:Novel and hsa-miR-668-3p (variables are sorted from the weakest).

The group in which the individual VF081 stands (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-624-5p, hsa-miR-216b-3p, hsa-miR-4718, hsa-miR-1914-5p, hsa-miR-1323, hsa-miR-6888-3p, hsa-miR-548s, hsa-miR-493-3p, hsa-miR-6791-3p and hsa-miR-647-3p: Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-1233-5p, hsa-miR-1260b, hsa-miR-147a-5p:Novel, hsa-miR-378h, hsa-miR-6867-5p, hsa-miR-3652-3p:Novel, hsa-miR-4513-3p:Novel, hsa-miR-138-5p, hsa-miR-219b-3p and hsa-miR-3155b (variables are sorted from the weakest).

The group in which the individual VOV084 stands (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-4481, hsa-miR-6769b-3p, hsa-miR-122b-3p, hsa-miR-12355-5p, hsa-miR-520e-3p, hsa-miR-520b-3p, hsa-miR-1255b-1-3p:Novel and hsa-miR-374c-3p (variables are sorted from the strongest).
- low values for the variables hsa-miR-3181, hsa-miR-30c-2-3p, hsa-miR-3138-5p:Novel and hsa-miR-3155a (variables are sorted from the weakest).

The group 4 (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-320a-5p, hsa-miR-1273c, hsa-miR-425-5p, hsa-miR-4441-5p:Novel, hsa-miR-4492-5p:Novel, hsa-miR-7110-3p, hsa-miR-1256, hsa-miR-6790-3p, hsa-miR-145-5p and hsa-miR-4634-5p:Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-7703, hsa-miR-606, hsa-miR-483-5p, hsa-miR-23c, hsa-miR-4737-3p:Novel, hsa-miR-4523-3p:Novel, hsa-miR-3146, hsa-miR-4533-3p:Novel, hsa-miR-3943-3p:Novel and hsa-miR-4654-3p:Novel (variables are sorted from the weakest).

The dimension 16 opposes individuals such as VF326 (to the top of the graph, characterized by a strongly positive coordinate on the axis) to individuals such as VF081VOV084 (to the bottom of the graph, characterized by a strongly negative coordinate on the axis).

The group 1 (characterized by a positive coordinate on the axis) is sharing :

- high values for variables like hsa-miR-6771-3p, hsa-miR-5006-3p, hsa-miR-6840-5p, hsa-miR-6722-5p, hsa-miR-4252-5p: Novel, hsa-miR-5693-5p: Novel, hsa-miR-4433a-5p, hsa-miR-1199-5p, hsa-miR-4802-3p and hsa-miR-19b-3p (variables are sorted from the strongest).
- low values for the variables $hsa\text{-}miR\text{-}1290\text{-}5p\text{:}Novel, hsa\text{-}miR\text{-}149\text{-}3p, hsa\text{-}miR\text{-}1246\text{-}3p\text{:}Novel, hsa-}miR\text{-}219a\text{-}5p, hsa\text{-}miR\text{-}11399\text{-}3p\text{:}Novel, hsa\text{-}miR\text{-}4693\text{-}3p, hsa\text{-}miR\text{-}4494\text{-}5p\text{:}Novel and hsa\text{-}miR\text{-}4256}$ (variables are sorted from the weakest).

The group in which the individual VF326 stands (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-2053-5p:Novel, hsa-miR-891b-3p:Novel, hsa-miR-4775, hsa-miR-664b-3p, hsa-miR-302f-5p:Novel, hsa-miR-1229-3p, hsa-miR-5689-3p:Novel, hsa-miR-6799-3p, hsa-miR-6775-3p and hsa-miR-5591-3p (variables are sorted from the strongest).
- low values for variables like hsa-miR-1288-5p, hsa-miR-1293, hsa-miR-4494, hsa-miR-323a-5p, hsa-miR-504-5p, hsa-miR-378h, hsa-miR-3137-3p:Novel, hsa-miR-12123, hsa-miR-4690-5p and hsa-miR-3972

(variables are sorted from the weakest).

The group in which the individual VOV084 stands (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-4481, hsa-miR-6769b-3p, hsa-miR-122b-3p, hsa-miR-122b-3p, hsa-miR-2355-5p, hsa-miR-520e-3p, hsa-miR-520b-3p, hsa-miR-1255b-1-3p:Novel and hsa-miR-374c-3p (variables are sorted from the strongest).
- low values for the variables hsa-miR-3181, hsa-miR-30c-2-3p, hsa-miR-3138-5p:Novel and hsa-miR-3155a (variables are sorted from the weakest).

The group 4 (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-4431, hsa-miR-4301-3p:Novel, hsa-miR-670-5p, hsa-miR-554-3p:Novel, hsa-miR-3137-3p:Novel, hsa-miR-4645-3p, hsa-miR-7157-3p, hsa-miR-367-3p, hsa-miR-3149 and hsa-miR-6884-3p (variables are sorted from the strongest).
- low values for variables like hsa-miR-4479, hsa-miR-3064-5p, hsa-miR-5680-5p:Novel, hsa-miR-4468-5p:Novel, hsa-miR-4644-5p:Novel, hsa-miR-194-1-3p:Novel, hsa-miR-6760-5p, hsa-miR-766-3p, hsa-miR-448-5p:Novel and hsa-miR-194-3p (variables are sorted from the weakest).

The group in which the individual VF081 stands (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-624-5p, hsa-miR-216b-3p, hsa-miR-4718, hsa-miR-1914-5p, hsa-miR-1323, hsa-miR-6888-3p, hsa-miR-548s, hsa-miR-493-3p, hsa-miR-6791-3p and hsa-miR-647-3p: Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-1233-5p, hsa-miR-1260b, hsa-miR-147a-5p:Novel, hsa-miR-378h, hsa-miR-6867-5p, hsa-miR-3652-3p:Novel, hsa-miR-4513-3p:Novel, hsa-miR-138-5p, hsa-miR-219b-3p and hsa-miR-3155b (variables are sorted from the weakest).

11. Description of the plane 17:18

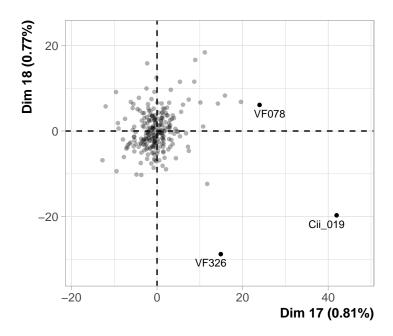


Figure 11.1 - Individuals factor map (PCA) The labeled individuals are those with the higher contribution to the plane construction.

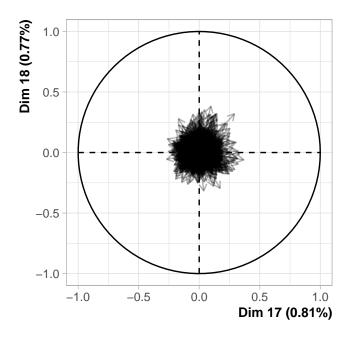


Figure 11.2 - Variables factor map (PCA) The labeled variables are those the best shown on the plane.

The dimension 17 opposes individuals such as *Cii_019*, *VF326* and *VF078* (to the right of the graph, characterized by a strongly positive coordinate on the axis) to individuals characterized by a strongly negative coordinate on the axis (to the left of the graph).

The group in which the individual VF078 stands (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-6875-5p, hsa-miR-2278-3p:Novel, hsa-miR-1293, hsa-miR-4255-3p:Novel, hsa-miR-378h-3p:Novel, hsa-miR-518c-3p, hsa-miR-4462-5p:Novel, hsa-miR-3945-3p:Novel, hsa-miR-6125 and hsa-miR-4327-3p:Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-5186, hsa-miR-3649-5p:Novel, hsa-miR-4478, hsa-miR-548k-3p:Novel, hsa-miR-1539, hsa-miR-146b-3p, hsa-miR-548a-2-5p:Novel, hsa-miR-1246-3p:Novel, $hsa\text{-}miR\text{-}1246\text{-}3p\text{:$

The group in which the individuals Cii_019 and VF326 stand (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-510-5p, hsa-miR-1296-5p, hsa-miR-4713-5p, hsa-miR-891b-3p:Novel, hsa-miR-375-5p, hsa-miR-5591-3p, hsa-miR-4699-5p, hsa-miR-4662a-3p, hsa-miR-548s-5p:Novel and hsa-miR-619-3p (variables are sorted from the strongest).
- low values for the variable hsa-miR-5698.

The group 3 (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-5186, hsa-miR-4478, hsa-miR-3649-5p:Novel, hsa-miR-548a-2-5p:Novel, hsa-miR-1539, hsa-miR-6809-3p, hsa-miR-504-5p, hsa-miR-1246-3p:Novel, hsa-miR-617 and hsa-miR-944 (variables are sorted from the strongest).
- low values for variables like hsa-miR-4462-5p:Novel, hsa-miR-2278-3p:Novel, hsa-miR-1293, hsa-miR-4255-3p:Novel, hsa-miR-6875-5p, hsa-miR-6125, hsa-miR-3945-3p:Novel, hsa-miR-591, hsa-miR-518c-3p and hsa-miR-1283-1-3p:Novel (variables are sorted from the weakest).

The dimension 18 opposes individuals such as VF078 (to the top of the graph, characterized by a strongly positive coordinate on the axis) to individuals such as $Cii_019VF326$ (to the bottom of the graph, characterized by a strongly negative coordinate on the axis).

The group in which the individual VF078 stands (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-6875-5p, hsa-miR-2278-3p:Novel, hsa-miR-1293, hsa-miR-4255-3p:Novel, hsa-miR-378h-3p:Novel, hsa-miR-518c-3p, hsa-miR-4462-5p:Novel, hsa-miR-3945-3p:Novel, hsa-miR-6125 and hsa-miR-4327-3p:Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-5186, hsa-miR-3649-5p:Novel, hsa-miR-4478, hsa-miR-548k-3p:Novel, hsa-miR-1539, hsa-miR-146b-3p, hsa-miR-548a-2-5p:Novel, hsa-miR-1246-3p:Novel, hsa-miR-4261-5p:Novel and hsa-miR-617 (variables are sorted from the weakest).

The group 2 (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-5186, hsa-miR-4478, hsa-miR-3649-5p:Novel, hsa-miR-548a-2-5p:Novel, hsa-miR-1539, hsa-miR-6809-3p, hsa-miR-504-5p, hsa-miR-1246-3p:Novel, hsa-miR-617 and hsa-miR-944 (variables are sorted from the strongest).
- low values for variables like hsa-miR-4462-5p:Novel, hsa-miR-2278-3p:Novel, hsa-miR-1293, hsa-miR-4255-3p:Novel, hsa-miR-6875-5p, hsa-miR-6125, hsa-miR-3945-3p:Novel, hsa-miR-591, hsa-miR-518c-3p and hsa-miR-1283-1-3p:Novel (variables are sorted from the weakest).

The group in which the individuals Cii_019 and VF326 stand (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-510-5p, hsa-miR-1296-5p, hsa-miR-4713-5p, hsa-miR-891b-3p:Novel, hsa-miR-375-5p, hsa-miR-5591-3p, hsa-miR-4699-5p, hsa-miR-4662a-3p, hsa-miR-548s-5p:Novel and hsa-miR-619-3p (variables are sorted from the strongest).
- low values for the variable hsa-miR-5698.

12. Description of the plane 19:20

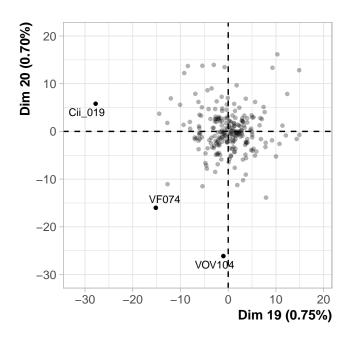


Figure 12.1 - Individuals factor map (PCA) The labeled individuals are those with the higher contribution to the plane construction.

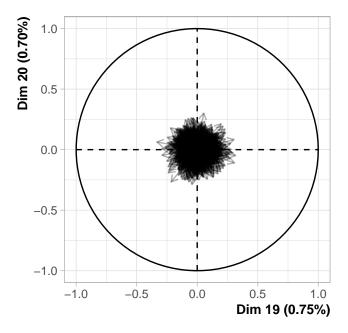


Figure 12.2 - Variables factor map (PCA) The labeled variables are those the best shown on the plane.

The dimension 19 opposes individuals characterized by a strongly positive coordinate on the axis (to the right of the graph) to individuals such as Cii_019 (to the left of the graph, characterized by a strongly negative coordinate on the axis).

The group 1 (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-1324-5p:Novel, hsa-miR-27b-5p, hsa-miR-548u-5p:Novel, hsa-miR-4654, hsa-miR-7974, hsa-miR-3609, hsa-miR-653-5p, hsa-miR-15a-3p, hsa-miR-378i and hsa-miR-548al-5p:Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-12125, hsa-miR-1912-5p, hsa-miR-3130-5p, hsa-miR-4671-5p, hsa-miR-6741-3p, hsa-miR-6748-3p, hsa-miR-944-5p: Novel, hsa-miR-6816-3p, hsa-miR-4276-3p: Novel and hsa-miR-3085-5p (variables are sorted from the weakest).

The group in which the individual Cii_019 stands (characterized by a negative coordinate on the axis) is sharing :

- high values for variables like hsa-miR-6075, hsa-miR-550b-2-5p, hsa-miR-6846-5p, hsa-miR-3189-5p, hsa-miR-6077, hsa-miR-4432, hsa-miR-4478, hsa-miR-6790-5p, hsa-miR-195-3p and hsa-miR-155-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-4654, hsa-miR-1273c-3p:Novel, hsa-miR-26a-2-3p, hsa-miR-1291-3p:Novel, hsa-miR-3977-3p:Novel, hsa-miR-8060-5p:Novel, hsa-miR-3666-3p:Novel, hsa-miR-12126-5p:Novel (variables are sorted from the weakest).

The dimension 20 opposes individuals such as *Cii_019* (to the top of the graph, characterized by a strongly positive coordinate on the axis) to individuals such as *VOV104VF074* (to the bottom of the graph, characterized by a strongly negative coordinate on the axis).

The group in which the individual Cii_019 stands (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-6075, hsa-miR-550b-2-5p, hsa-miR-6846-5p, hsa-miR-3189-5p, hsa-miR-6077, hsa-miR-4432, hsa-miR-4478, hsa-miR-6790-5p, hsa-miR-195-3p and hsa-miR-155-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-4654, hsa-miR-1273c-3p:Novel, hsa-miR-26a-2-3p, hsa-miR-1291-3p:Novel, hsa-miR-3977-3p:Novel, hsa-miR-8060-5p:Novel, hsa-miR-3666-3p:Novel, hsa-miR-12126-5p:Novel (variables are sorted from the weakest).

The group in which the individuals VOV104 and VF074 stand (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-12125, hsa-miR-4297-3p: Novel, hsa-miR-548j-3p, hsa-miR-548j-3p, hsa-miR-518e-3p, hsa-miR-1287-3p, hsa-miR-4745-3p and hsa-miR-24-2-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-6075, hsa-miR-486-3p, hsa-miR-6846-5p, hsa-miR-4259-5p:Novel, hsa-miR-6750-5p, hsa-miR-4527-3p:Novel, hsa-miR-4654-3p:Novel, hsa-miR-548a-3p, hsa-miR-181c-3p and hsa-miR-6873-5p (variables are sorted from the weakest).

13. Description of the plane 21:22

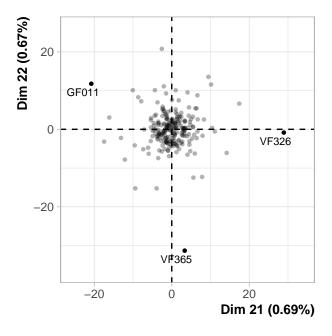


Figure 13.1 - Individuals factor map (PCA) The labeled individuals are those with the higher contribution to the plane construction.

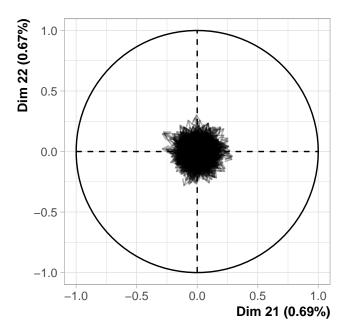


Figure 13.2 - Variables factor map (PCA) The labeled variables are those the best shown on the plane.

The dimension 21 opposes individuals such as VF326 (to the right of the graph, characterized by a strongly positive coordinate on the axis) to individuals such as GF011 (to the left of the graph, characterized by a strongly negative coordinate on the axis).

The group in which the individual VF326 stands (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-6866-3p, hsa-miR-642b-3p, hsa-miR-608, hsa-miR-3149, hsa-miR-558-5p:Novel, hsa-miR-944-5p:Novel, hsa-miR-1272, hsa-miR-550a-3-5p, hsa-miR-550b-3p and hsa-miR-153-3p (variables are sorted from the strongest).
- low values for variables like hsa-miR-10398-3p, hsa-miR-3960-5p:Novel, hsa-miR-5091-3p:Novel, hsa-miR-1915-3p, hsa-miR-1285-3p, hsa-miR-4800-3p, hsa-miR-4497, hsa-miR-4449, hsa-miR-219a-5p and hsa-miR-432-5p (variables are sorted from the weakest).

The group in which the individual GF011 stands (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-3682-5p, hsa-miR-4310-5p:Novel, hsa-miR-3064-3p, hsa-miR-32-3p, hsa-miR-384, hsa-miR-1206-3p:Novel, hsa-miR-505-3p, hsa-miR-3689f, hsa-miR-5091-3p:Novel and hsa-miR-5690-3p:Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-5680-5p:Novel, hsa-miR-2114-5p, hsa-miR-555, hsa-miR-146b-3p, hsa-miR-6871-3p, hsa-miR-11399, hsa-miR-5707-3p:Novel, hsa-miR-4506, hsa-miR-99b-3p and hsa-miR-138-5p (variables are sorted from the weakest).

The dimension 22 opposes individuals such as GF011 and VF326 (to the top of the graph, characterized by a strongly positive coordinate on the axis) to individuals such as ** and VF365 (to the bottom of the graph, characterized by a strongly negative coordinate on the axis).

The group in which the individual GF011 stands (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-3682-5p, hsa-miR-4310-5p:Novel, hsa-miR-3064-3p, hsa-miR-32-3p, hsa-miR-384, hsa-miR-1206-3p:Novel, hsa-miR-505-3p, hsa-miR-3689f, hsa-miR-5091-3p:Novel and hsa-miR-5690-3p:Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-5680-5p:Novel, hsa-miR-2114-5p, hsa-miR-555, hsa-miR-146b-3p, hsa-miR-6871-3p, hsa-miR-11399, hsa-miR-5707-3p:Novel, hsa-miR-4506, hsa-miR-99b-3p and hsa-miR-138-5p (variables are sorted from the weakest).

The group in which the individual VF326 stands (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-6866-3p, hsa-miR-642b-3p, hsa-miR-608, hsa-miR-3149, hsa-miR-558-5p:Novel, hsa-miR-944-5p:Novel, hsa-miR-1272, hsa-miR-550a-3-5p, hsa-miR-550b-3p and hsa-miR-153-3p (variables are sorted from the strongest).
- low values for variables like hsa-miR-10398-3p, hsa-miR-3960-5p:Novel, hsa-miR-5091-3p:Novel, hsa-miR-1915-3p, hsa-miR-1285-3p, hsa-miR-4800-3p, hsa-miR-4497, hsa-miR-4449, hsa-miR-219a-5p and hsa-miR-432-5p (variables are sorted from the weakest).

The group in which the individual VF365 stands (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-548bb-3p, hsa-miR-3168-3p:Novel, hsa-miR-4802-5p, hsa-miR-11399, hsa-miR-4324-5p:Novel, hsa-miR-1260a-3p:Novel, hsa-miR-4497, hsa-miR-4728-3p, hsa-miR-4467 and hsa-miR-6768-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-4698-5p:Novel, hsa-miR-4501-3p:Novel, hsa-miR-3149, hsa-miR-4677-3p, hsa-miR-581, hsa-miR-4665-5p, hsa-miR-11400-3p:Novel, hsa-miR-181b-5p, hsa-miR-4429-3p:Novel and hsa-miR-30c-2-3p (variables are sorted from the weakest).

14. Description of the plane 23:24

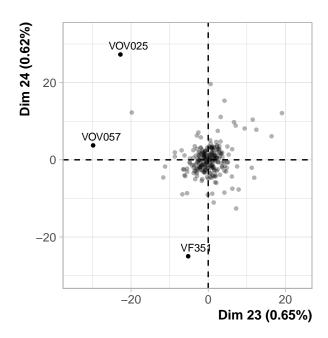


Figure 14.1 - Individuals factor map (PCA) The labeled individuals are those with the higher contribution to the plane construction.

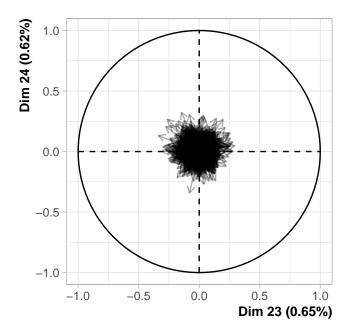


Figure 14.2 - Variables factor map (PCA) The labeled variables are those the best shown on the plane.

The dimension 23 opposes individuals characterized by a strongly positive coordinate on the axis (to the right of the graph) to individuals such as VOV025VOV057 (to the left of the graph, characterized by a strongly negative coordinate on the axis).

The group 1 (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-4456-3p: Novel, hsa-miR-2116-3p, hsa-miR-4530-5p: Novel, hsa-miR-147a, hsa-miR-12121, hsa-miR-6893-5p, hsa-miR-4715-5p, hsa-miR-5090-3p: Novel, hsa-miR-636-5p: Novel and hsa-miR-3660-5p: Novel (variables are sorted from the strongest).
- low values for the variables hsa-miR-4717-5p, hsa-miR-3183, hsa-miR-630-5p:Novel, hsa-miR-4802-3p, hsa-miR-455-5p, hsa-miR-10397-3p and hsa-miR-4666b-3p:Novel (variables are sorted from the weakest).

The group in which the individuals VOV025 and VOV057 stand (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-7160-5p, hsa-miR-548am-3p, hsa-miR-10394-5p, hsa-miR-12499, hsa-miR-302d-3p, hsa-miR-1245b-3p, hsa-miR-3186-3p, hsa-miR-1258, hsa-miR-711 and hsa-miR-4752-3p: Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-8083-3p:Novel, hsa-miR-3916-3p:Novel, hsa-miR-1587-3p:Novel, hsa-miR-654-5p, hsa-miR-3180, hsa-miR-3976-3p:Novel, hsa-miR-5572, hsa-miR-2114-5p, hsa-miR-1231-3p:Novel and hsa-miR-4656-3p:Novel (variables are sorted from the weakest).

The dimension 24 opposes individuals such as VOV025 and VOV057 (to the top of the graph, characterized by a strongly positive coordinate on the axis) to individuals such as ** and VF351 (to the bottom of the graph, characterized by a strongly negative coordinate on the axis).

The group in which the individuals VOV025 and VOV057 stand (characterized by a positive coordinate on the axis) is sharing:

• high values for variables like hsa-miR-7160-5p, hsa-miR-548am-3p, hsa-miR-10394-5p, hsa-miR-1299,

- hsa-miR-302d-3p, hsa-miR-1245b-3p, hsa-miR-3186-3p, hsa-miR-1258, hsa-miR-711 and hsa-miR-4752-3p: Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-8083-3p:Novel, hsa-miR-3916-3p:Novel, hsa-miR-1587-3p:Novel, hsa-miR-654-5p, hsa-miR-3180, hsa-miR-3976-3p:Novel, hsa-miR-5572, hsa-miR-2114-5p, hsa-miR-1231-3p:Novel and hsa-miR-4656-3p:Novel (variables are sorted from the weakest).

The group 2 (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-4456-3p:Novel, hsa-miR-2116-3p, hsa-miR-4530-5p:Novel, hsa-miR-147a, hsa-miR-12121, hsa-miR-6893-5p, hsa-miR-4715-5p, hsa-miR-5090-3p:Novel, hsa-miR-636-5p:Novel and hsa-miR-3660-5p:Novel (variables are sorted from the strongest).
- low values for the variables hsa-miR-4717-5p, hsa-miR-3183, hsa-miR-630-5p:Novel, hsa-miR-4802-3p, hsa-miR-455-5p, hsa-miR-10397-3p and hsa-miR-4666b-3p:Novel (variables are sorted from the weakest).

The group in which the individual VF351 stands (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-4717-5p, hsa-miR-630-5p:Novel, hsa-miR-4683, hsa-miR-3916-3p:Novel, hsa-miR-4802-3p, hsa-miR-5580-5p, hsa-miR-1244, hsa-miR-600-5p:Novel, hsa-miR-4496 and hsa-miR-4428 (variables are sorted from the strongest).
- low values for variables like hsa-miR-718-5p:Novel, hsa-miR-5694, hsa-miR-2116-3p, hsa-miR-4481-3p:Novel, hsa-miR-454-3p, hsa-miR-4774-5p, hsa-miR-4456-3p:Novel, hsa-miR-4648-3p:Novel, hsa-miR-12121 and hsa-miR-665 (variables are sorted from the weakest).

15. Description of the plane 25:26

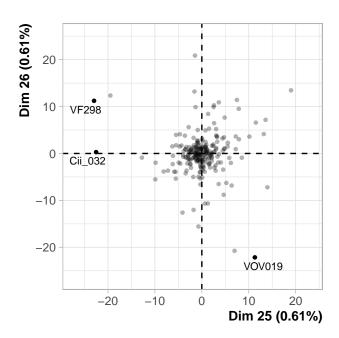


Figure 15.1 - Individuals factor map (PCA) The labeled individuals are those with the higher contribution to the plane construction.

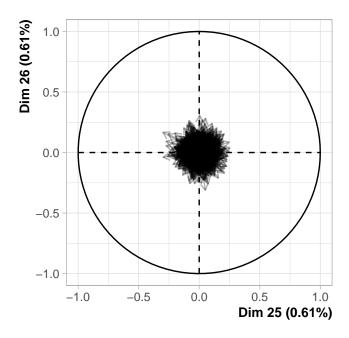


Figure 15.2 - Variables factor map (PCA) The labeled variables are those the best shown on the plane.

The dimension 25 opposes individuals characterized by a strongly positive coordinate on the axis (to the right of the graph) to individuals such as $VF298Cii_032$ (to the left of the graph, characterized by a strongly negative coordinate on the axis).

The group 1 (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-4728-3p, hsa-miR-4490-5p: Novel, hsa-miR-4802-3p, hsa-miR-7852-3p, hsa-miR-3663-5p, hsa-miR-219b-3p, hsa-miR-12131-5p: Novel, hsa-miR-4717-5p, hsa-miR-3168 and hsa-miR-548aa-5p: Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-8057, hsa-miR-1827, hsa-miR-1470-3p:Novel, hsa-miR-5703-5p:Novel, hsa-miR-6515-5p, hsa-miR-300-5p:Novel, hsa-miR-4534-5p:Novel, hsa-miR-4769-5p, hsa-miR-12122-3p:Novel and hsa-miR-4428-5p:Novel (variables are sorted from the weakest).

The group in which the individuals VF298 and Cii_032 stand (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-4744, hsa-miR-4769-5p, hsa-miR-342-3p, hsa-miR-1825-5p:Novel, hsa-miR-378j-3p:Novel, hsa-miR-4649-3p, hsa-miR-1244-5p:Novel, hsa-miR-625-5p, hsa-miR-3170-3p:Novel and hsa-miR-4802-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-4728-3p, hsa-miR-6077, hsa-miR-320e-5p:Novel, hsa-miR-1469-3p:Novel, hsa-miR-137-3p, hsa-miR-4739-3p:Novel, hsa-miR-4698, hsa-miR-199a-3p, hsa-miR-199b-3p, hsa-miR-940 and hsa-miR-4687-3p (variables are sorted from the weakest).

The dimension 26 opposes individuals characterized by a strongly positive coordinate on the axis (to the top of the graph) to individuals such as VOV019 (to the bottom of the graph, characterized by a strongly negative coordinate on the axis).

The group 1 (characterized by a positive coordinate on the axis) is sharing:

• high values for variables like hsa-miR-4728-3p, hsa-miR-4490-5p: Novel, hsa-miR-4802-3p, hsa-miR-7852-3p, hsa-miR-3663-5p, hsa-miR-219b-3p, hsa-miR-12131-5p: Novel, hsa-miR-4717-5p, hsa-miR-3168

- and hsa-miR-548aa-5p:Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-8057, hsa-miR-1827, hsa-miR-1470-3p:Novel, hsa-miR-5703-5p:Novel, hsa-miR-6515-5p, hsa-miR-300-5p:Novel, hsa-miR-4534-5p:Novel, hsa-miR-4769-5p, hsa-miR-12122-3p:Novel and hsa-miR-4428-5p:Novel (variables are sorted from the weakest).

The group in which the individual VOV019 stands (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-8067, hsa-miR-4664-3p, hsa-miR-4439, hsa-miR-1279-3p: Novel, hsa-miR-4763-3p, hsa-miR-940, hsa-miR-762, hsa-miR-9985, hsa-miR-6828-3p and hsa-miR-571-5p: Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-373-3p, hsa-miR-12117-3p:Novel, hsa-miR-1843, hsa-miR-4666b-3p:Novel, hsa-miR-569-5p:Novel, hsa-miR-4690-5p, hsa-miR-6738-5p, hsa-miR-129-5p, hsa-miR-342-3p and hsa-miR-4507 (variables are sorted from the weakest).

16. Description of the plane 27:28

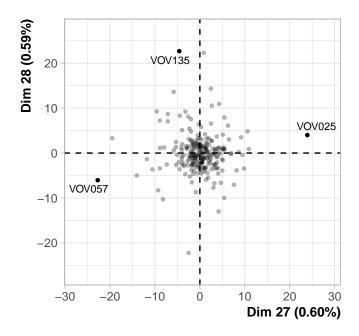


Figure 16.1 - Individuals factor map (PCA) The labeled individuals are those with the higher contribution to the plane construction.

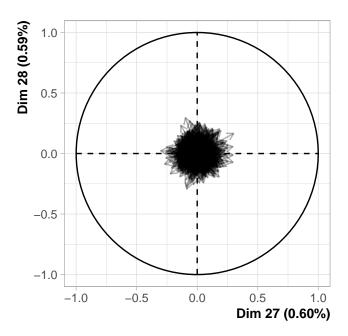


Figure 16.2 - Variables factor map (PCA) The labeled variables are those the best shown on the plane.

The dimension 27 opposes individuals such as VOV025 (to the right of the graph, characterized by a strongly positive coordinate on the axis) to individuals such as VOV057 (to the left of the graph, characterized by a strongly negative coordinate on the axis).

The group in which the individual VOV025 stands (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-1323-3p:Novel, hsa-miR-764-3p:Novel, hsa-miR-371b-5p, hsa-miR-371b-5p, hsa-miR-4322-5p:Novel, hsa-miR-6774-5p, hsa-miR-3926-3p:Novel and hsa-miR-3529-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-572, hsa-miR-3064-5p, hsa-miR-4717-5p, hsa-miR-4266, hsa-miR-10392-3p, hsa-miR-6849-3p, hsa-miR-4497, hsa-miR-4445-3p, hsa-miR-7150-3p:Novel and hsa-miR-4306 (variables are sorted from the weakest).

The group in which the individual VOV057 stands (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-4306, hsa-miR-4317, hsa-miR-6807-3p, hsa-miR-1277-3p, hsa-miR-7108-3p, hsa-miR-622, hsa-miR-6851-5p, hsa-miR-4682-3p: Novel, hsa-miR-3162-5p and hsa-miR-5004-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-320d, hsa-miR-762, hsa-miR-3657-5p:Novel, hsa-miR-764-3p:Novel, hsa-miR-3085-3p, hsa-miR-4322-5p:Novel, hsa-miR-29b-2-5p, hsa-miR-4467-3p:Novel and hsa-miR-3163 (variables are sorted from the weakest).

The dimension 28 opposes individuals such as VOV135 (to the top of the graph, characterized by a strongly positive coordinate on the axis) to individuals such as VOV057VOV025 (to the bottom of the graph, characterized by a strongly negative coordinate on the axis).

The group in which the individual VOV135 stands (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-3064-5p, hsa-miR-548h-5-3p:Novel, hsa-miR-3714-3p:Novel, hsa-miR-325, hsa-miR-4508, hsa-miR-103a-2-5p, hsa-miR-501-3p, hsa-miR-10392-5p, hsa-miR-4737 and hsa-miR-4741 (variables are sorted from the strongest).
- low values for variables like hsa-miR-6834-5p, hsa-miR-4431-3p: Novel, hsa-miR-4793-5p, hsa-miR-3130-5p, hsa-miR-12119, hsa-miR-218-5p, hsa-miR-3920, hsa-miR-6125, hsa-miR-5704 and hsa-miR-12129 (variables are sorted from the weakest).

The group in which the individual VOV057 stands (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-4306, hsa-miR-4317, hsa-miR-6807-3p, hsa-miR-1277-3p, hsa-miR-7108-3p, hsa-miR-622, hsa-miR-6851-5p, hsa-miR-4682-3p:Novel, hsa-miR-3162-5p and hsa-miR-5004-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-320d, hsa-miR-762, hsa-miR-3657-5p: Novel, hsa-miR-764-3p: Novel, hsa-miR-3085-3p, hsa-miR-4322-5p: Novel, hsa-miR-29b-2-5p, hsa-miR-4467-3p: Novel and hsa-miR-3163 (variables are sorted from the weakest).

The group in which the individual VOV025 stands (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-1323-3p:Novel, hsa-miR-764-3p:Novel, hsa-miR-371b-5p, hsa-miR-371b-5p, hsa-miR-372b-3p:Novel, hsa-miR-6774-5p, hsa-miR-3926-3p:Novel and hsa-miR-3529-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-572, hsa-miR-3064-5p, hsa-miR-4717-5p, hsa-miR-4266, hsa-miR-10392-3p, hsa-miR-6849-3p, hsa-miR-4497, hsa-miR-4445-3p, hsa-miR-7150-3p:Novel and hsa-miR-4306 (variables are sorted from the weakest).

17. Description of the plane 29:30

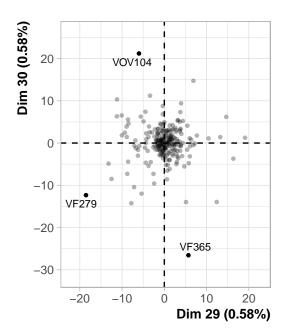


Figure 17.1 - Individuals factor map (PCA) The labeled individuals are those with the higher contribution to the plane construction.

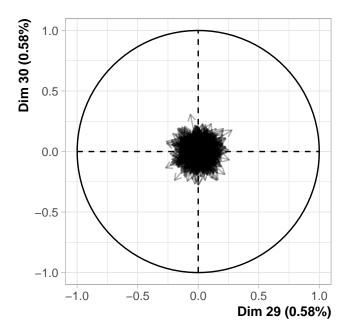


Figure 17.2 - Variables factor map (PCA) The labeled variables are those the best shown on the plane.

The dimension 29 opposes individuals characterized by a strongly positive coordinate on the axis (to the right of the graph) to individuals such as VF365VF279VOV104 (to the left of the graph, characterized by a strongly negative coordinate on the axis).

The group 1 (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-7159-5p, hsa-miR-6799-3p, hsa-miR-200c-5p, hsa-miR-670-5p, hsa-miR-8089, hsa-miR-10398-5p, hsa-miR-3667-3p, hsa-miR-3977-3p:Novel, hsa-miR-4733-3p and hsa-miR-548as-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-550b-2-5p, hsa-miR-4290-5p:Novel, hsa-miR-4264-3p:Novel, hsa-miR-148a-3p, hsa-miR-1272-3p:Novel, hsa-miR-6840-5p, hsa-miR-550a-5p, hsa-miR-215-5p, hsa-miR-1267 and hsa-miR-155-5p (variables are sorted from the weakest).

The group in which the individual VOV104 stands (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-655-3p, hsa-miR-3609-5p: Novel, hsa-miR-1539, hsa-miR-3945-3p: Novel, hsa-miR-6873-3p, hsa-miR-412-3p, hsa-miR-155-5p, hsa-miR-4299, hsa-miR-6840-5p and hsa-miR-4435-3p: Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-498-3p, hsa-miR-512-3p, hsa-miR-670-5p, hsa-miR-3977-3p:Novel, hsa-miR-499a-5p, hsa-miR-6742-5p, hsa-miR-378g, hsa-miR-101-3p, hsa-miR-1292-5p and hsa-miR-1292-5p and hsa-miR-1292-5p. hsa-miR-1292-5p and hsa-miR-1292-5p and hsa-miR-1292-5p.

The group in which the individuals VF365 and VF279 stand (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-605-3p, hsa-miR-1267, hsa-miR-7152-3p, hsa-miR-1537-5p, hsa-miR-367-5p, hsa-miR-485-3p, hsa-miR-1292-5p, hsa-miR-5694, hsa-miR-1468-3p and hsa-miR-668-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-7845-5p, hsa-miR-4687-5p, hsa-miR-3622a-5p, hsa-miR-9902-3p:Novel, hsa-miR-4298-3p:Novel, hsa-miR-507, hsa-miR-3140-5p, hsa-miR-1266-3p, hsa-miR-564-3p:Novel and hsa-miR-626 (variables are sorted from the weakest).

The dimension 30 opposes individuals such as VOV104 (to the top of the graph, characterized by a strongly positive coordinate on the axis) to individuals such as VF365VF279 (to the bottom of the graph, characterized by a strongly negative coordinate on the axis).

The group in which the individual VOV104 stands (characterized by a positive coordinate on the axis) is sharing:

- high values for variables like hsa-miR-655-3p, hsa-miR-3609-5p:Novel, hsa-miR-1539, hsa-miR-3945-3p:Novel, hsa-miR-6873-3p, hsa-miR-412-3p, hsa-miR-155-5p, hsa-miR-4299, hsa-miR-6840-5p and hsa-miR-4435-3p:Novel (variables are sorted from the strongest).
- low values for variables like hsa-miR-498-3p, hsa-miR-512-3p, hsa-miR-670-5p, hsa-miR-3977-3p:Novel, hsa-miR-499a-5p, hsa-miR-6742-5p, hsa-miR-378g, hsa-miR-101-3p, hsa-miR-1292-5p and hsa-miR-1292-5p and hsa-miR-1292-5p. Novel (variables are sorted from the weakest).

The group in which the individuals VF365 and VF279 stand (characterized by a negative coordinate on the axis) is sharing:

- high values for variables like hsa-miR-605-3p, hsa-miR-1267, hsa-miR-7152-3p, hsa-miR-1537-5p, hsa-miR-367-5p, hsa-miR-485-3p, hsa-miR-1292-5p, hsa-miR-5694, hsa-miR-1468-3p and hsa-miR-668-5p (variables are sorted from the strongest).
- low values for variables like hsa-miR-7845-5p, hsa-miR-4687-5p, hsa-miR-3622a-5p, hsa-miR-9902-3p:Novel, hsa-miR-4298-3p:Novel, hsa-miR-507, hsa-miR-3140-5p, hsa-miR-1266-3p, hsa-miR-564-3p:Novel and hsa-miR-626 (variables are sorted from the weakest).

18. Classification	
The dataset is too large to	perform the classification.
-	

Annexes