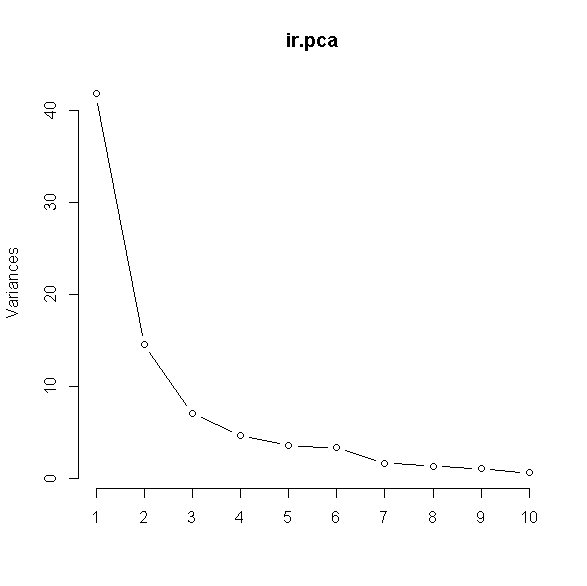
**Supplementary material 9:** Simple PCA analysis with complete parameters of variability and importance of single components

Plot of the variances (y-axis) associated with the PCs (x-axis) - first two PCs explain most of the variability in the data.



**Importance of components:**

PC1 PC2 PC3 PC4 PC5 PC6 PC7

Standard deviation 6.4671 3.8159 2.66958 2.17024 1.89813 1.83298 1.30337

Proportion of Variance 0.5161 0.1797 0.08794 0.05812 0.04446 0.04146 0.02096

Cumulative Proportion 0.5161 0.6958 0.78373 0.84185 0.88631 0.92777 0.94873

PC8 PC9 PC10 PC11 PC12 PC13 PC14

Standard deviation 1.17004 1.04228 0.79644 0.66897 0.50855 0.44592 0.2987

Proportion of Variance 0.01689 0.01341 0.00783 0.00552 0.00319 0.00245 0.0011

Cumulative Proportion 0.96563 0.97903 0.98686 0.99238 0.99557 0.99803 0.9991

PC15 PC16 PC17 PC18

Standard deviation 0.22478 0.11192 0.08765 1.25e-16

Proportion of Variance 0.00062 0.00015 0.00009 0.00e+00

Cumulative Proportion 0.99975 0.99991 1.00000 1.00e+00

**Resulting PCA plot (very similar to fuzzy clustering approach)**

