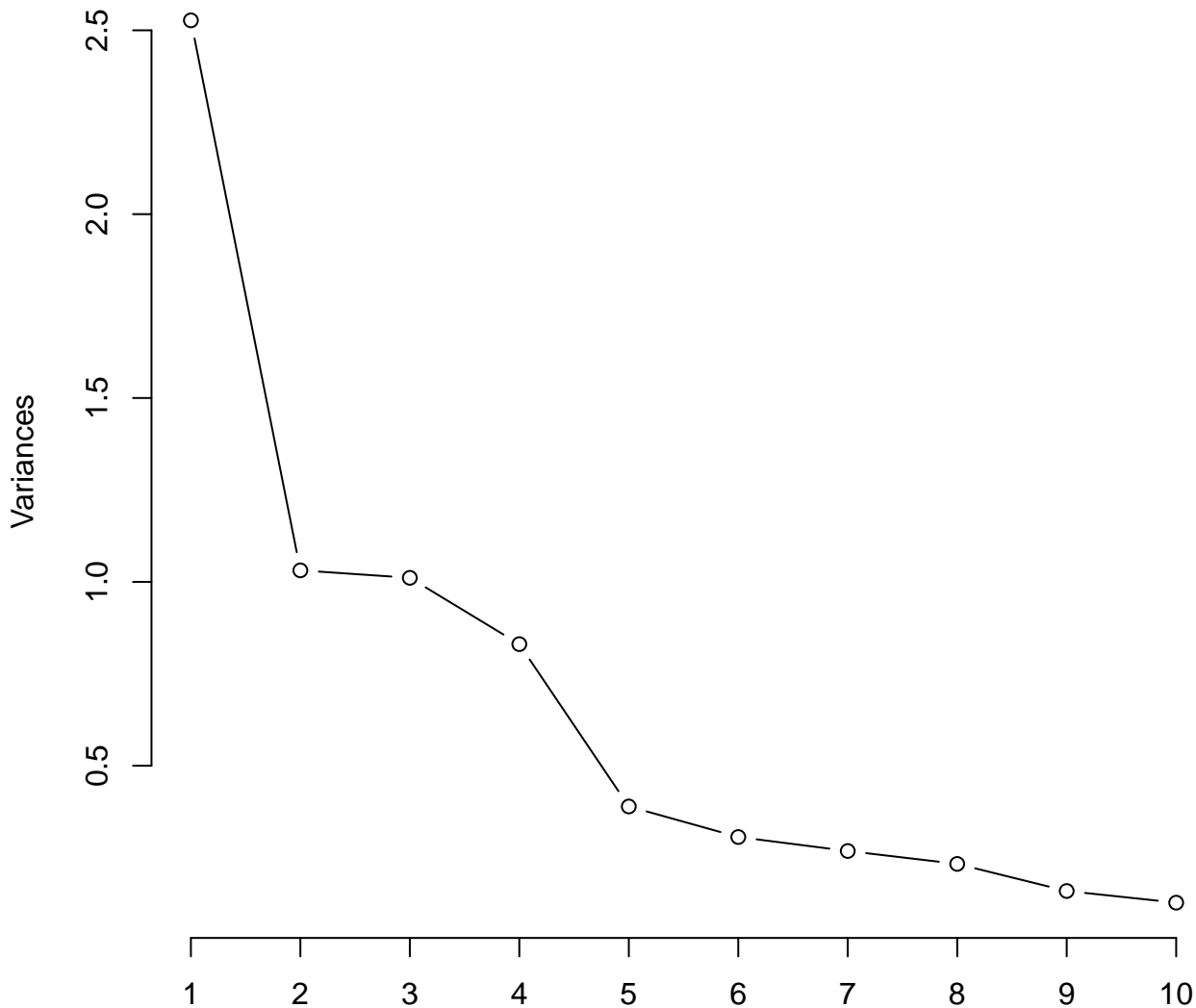
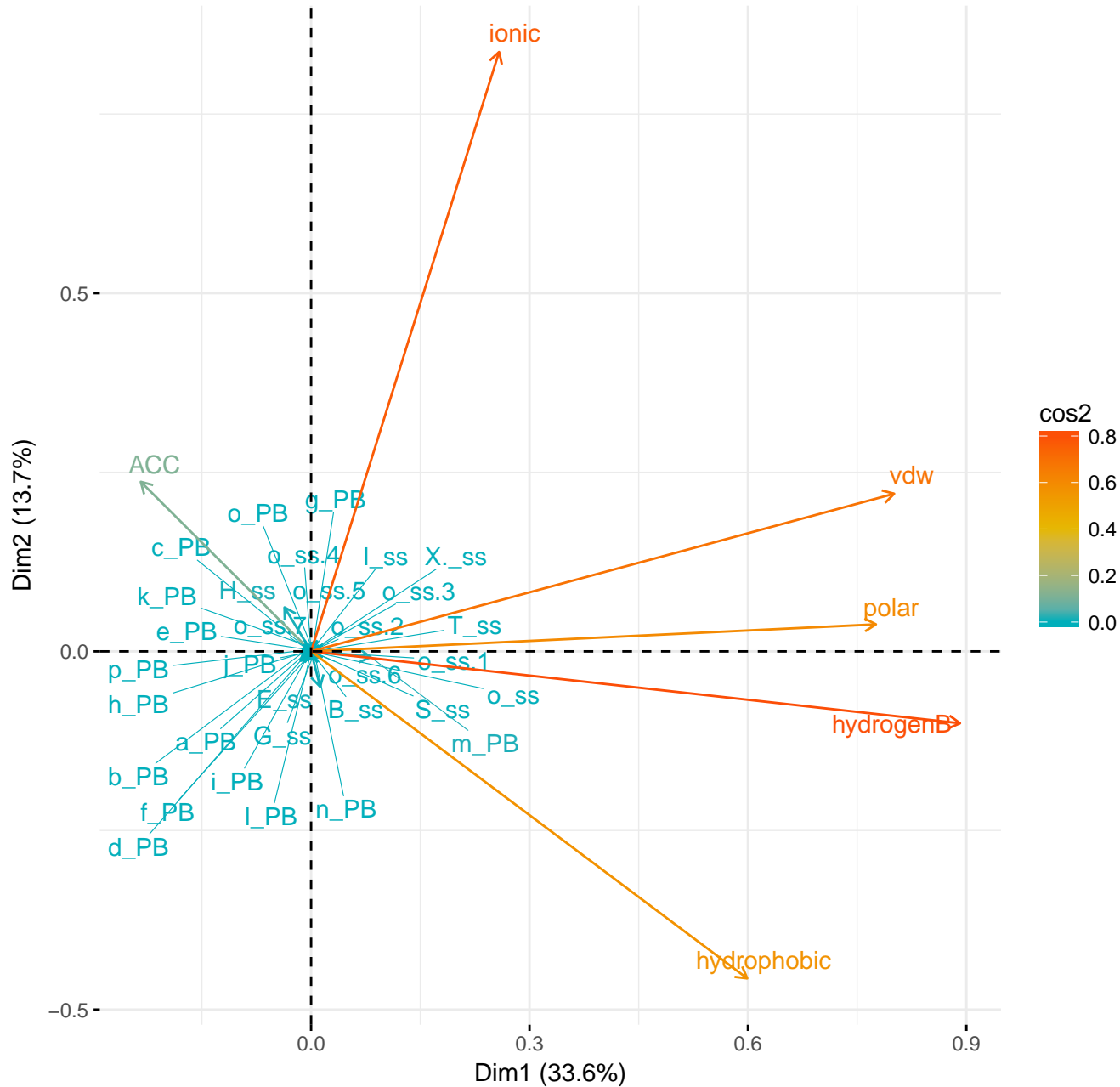


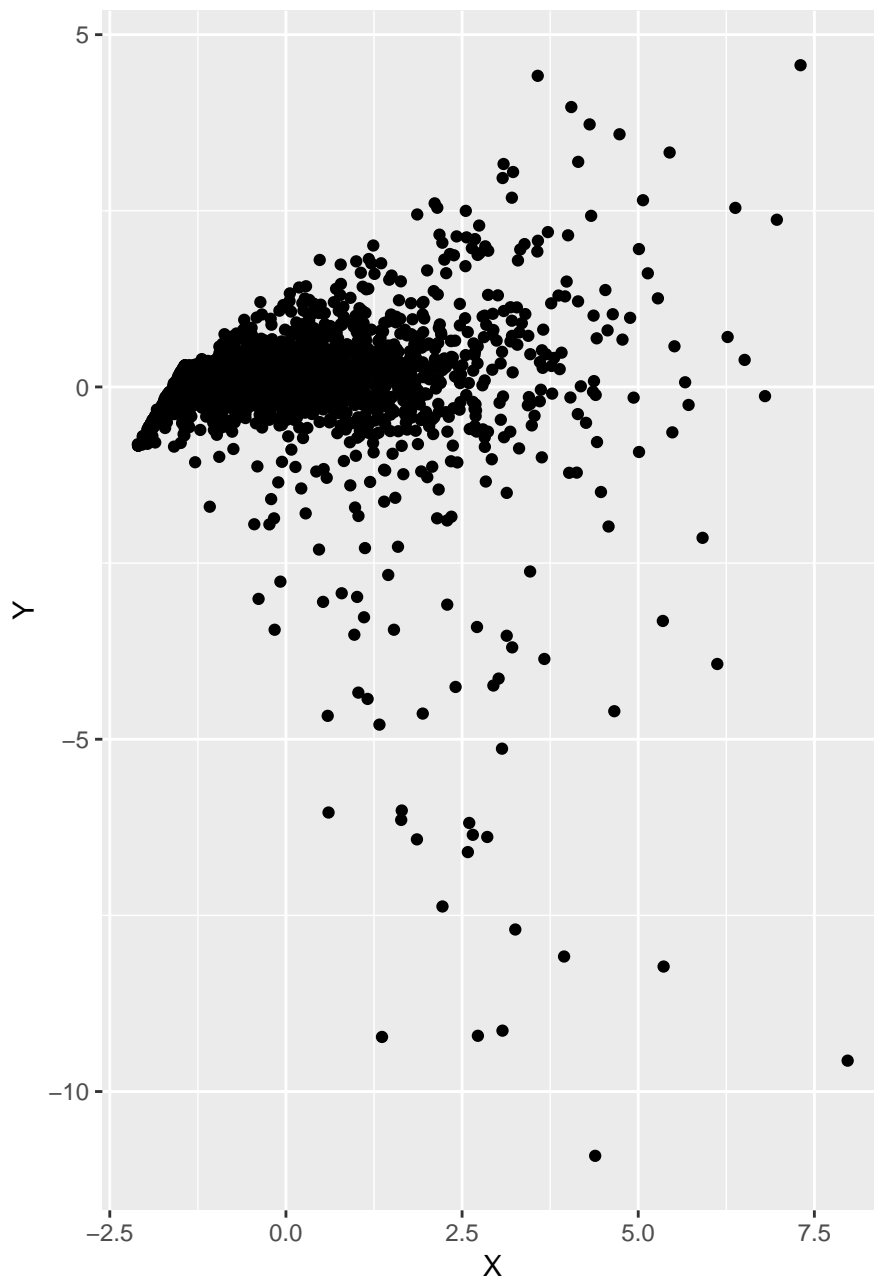
Variances en fonction des Composantes Principales



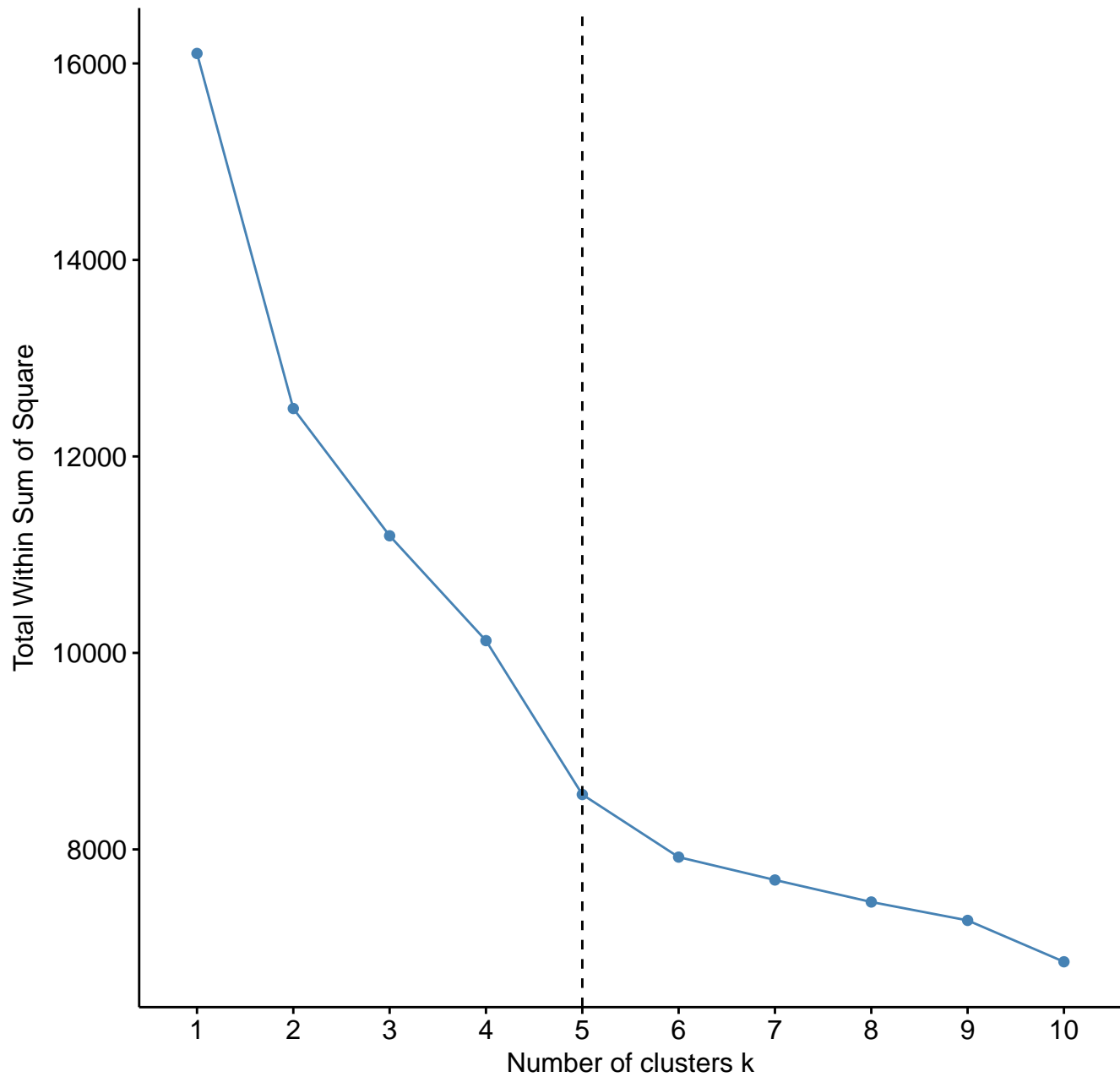
Variables – PCA



MDS with Shephard–Kruskal Stress 0.6



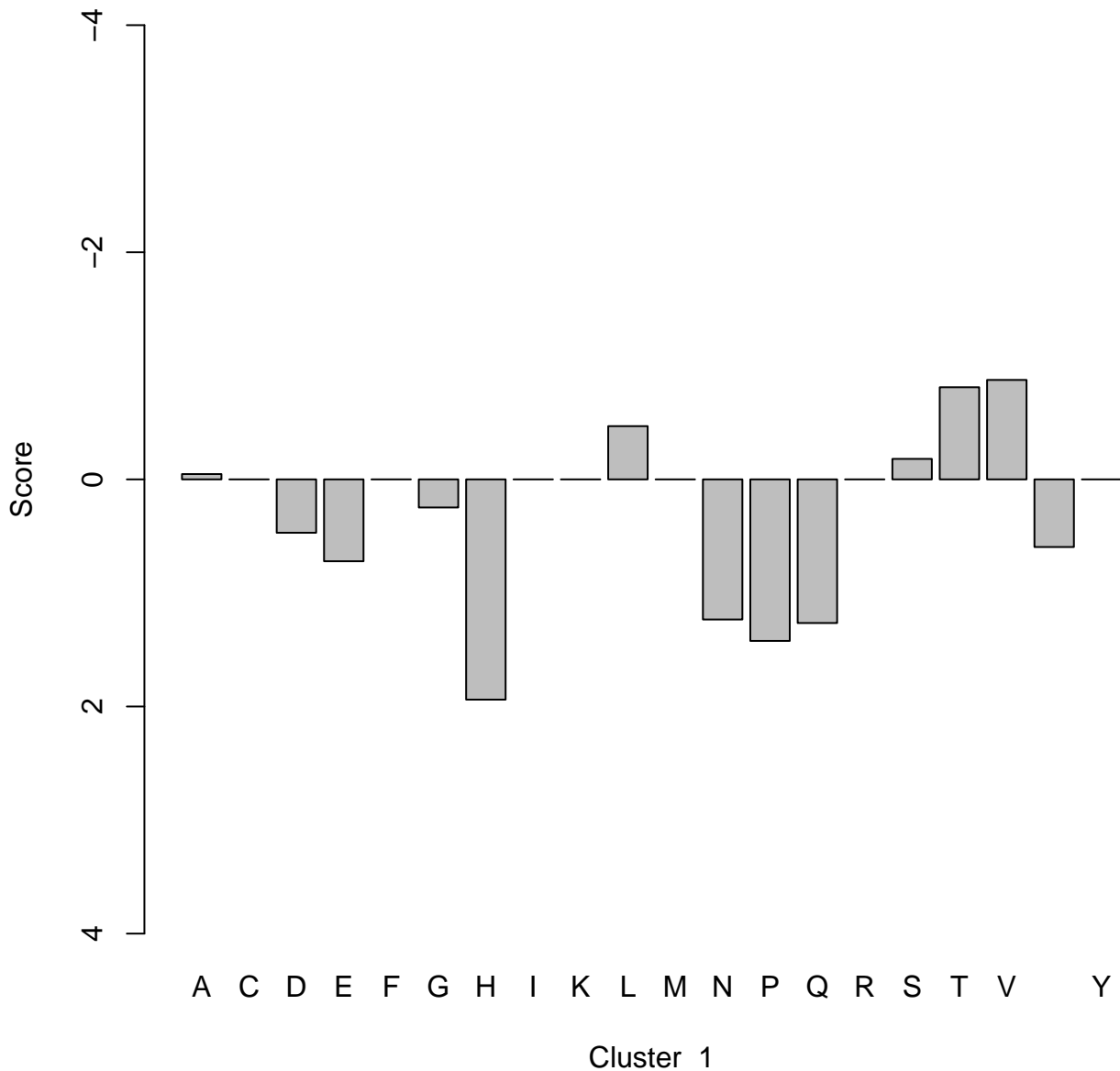
Optimal number of clusters



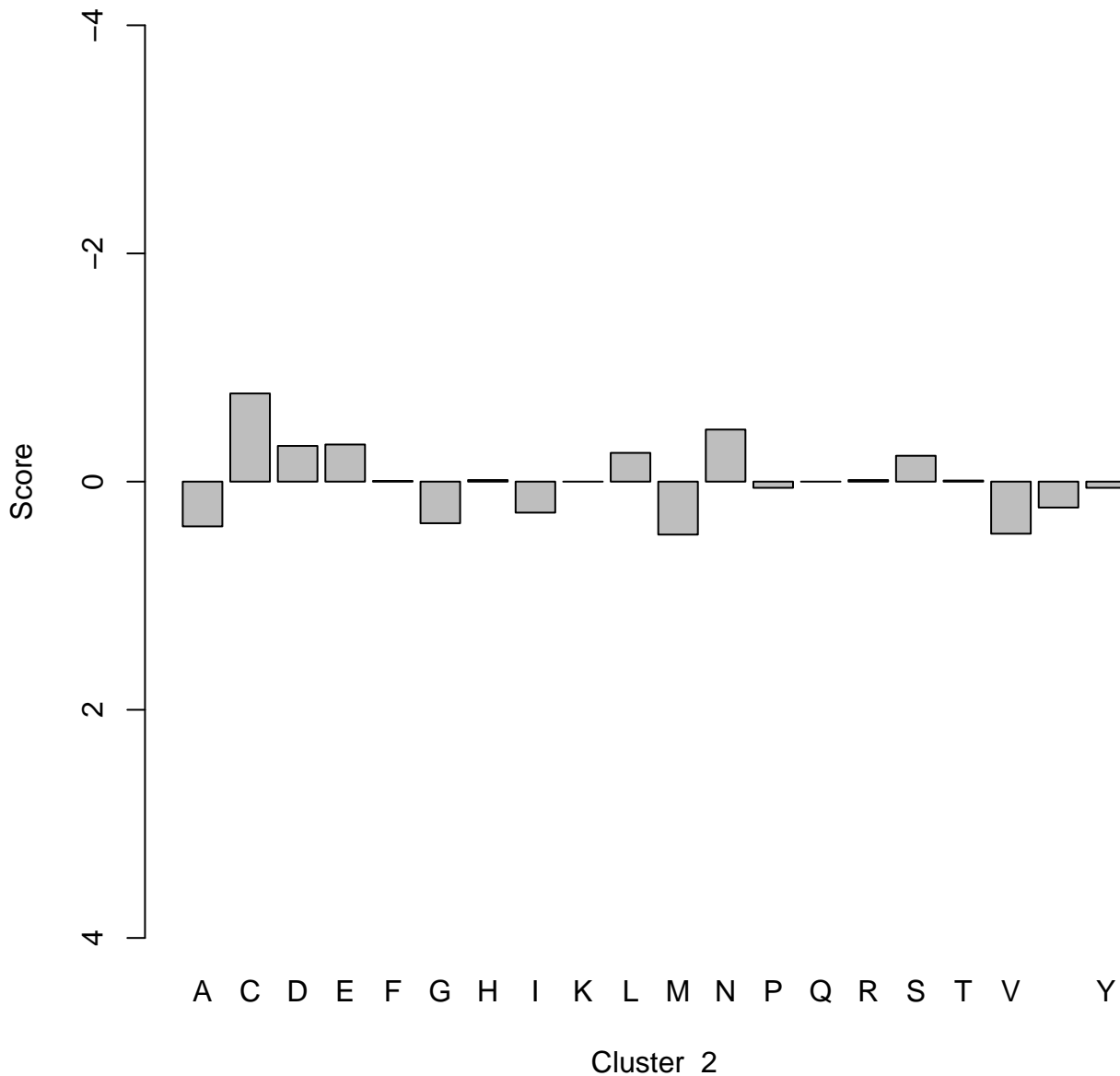
A PCA plot showing the distribution of 1000 random numbers. The x-axis is labeled 'PC1' and ranges from 0.00 to 0.08. The y-axis is unlabeled but ranges from approximately -0.02 to 0.06. The data points are colored based on their value, with a gradient from blue (low values) to red (high values). Four overlapping convex hulls are drawn around the data, representing different value ranges: a red hull for high values (top right), a blue hull for low values (bottom left), a green hull for intermediate values (center), and a yellow hull for intermediate values (bottom right). The hulls are semi-transparent, allowing overlapping areas to appear darker. The red hull is the largest and most central, while the blue hull is the smallest and most peripheral.



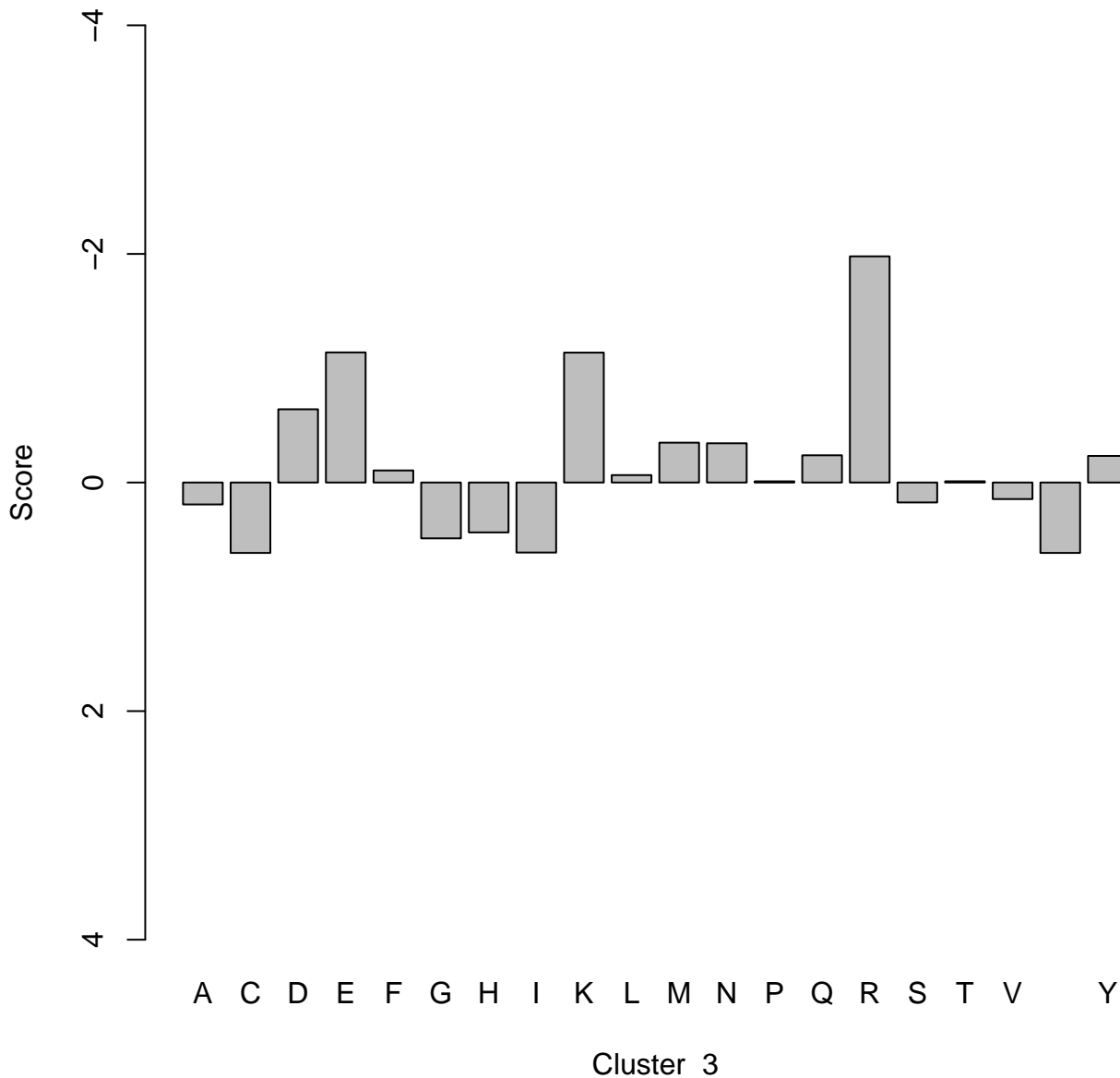
Distribution des scores (Méthodes Kmeans)



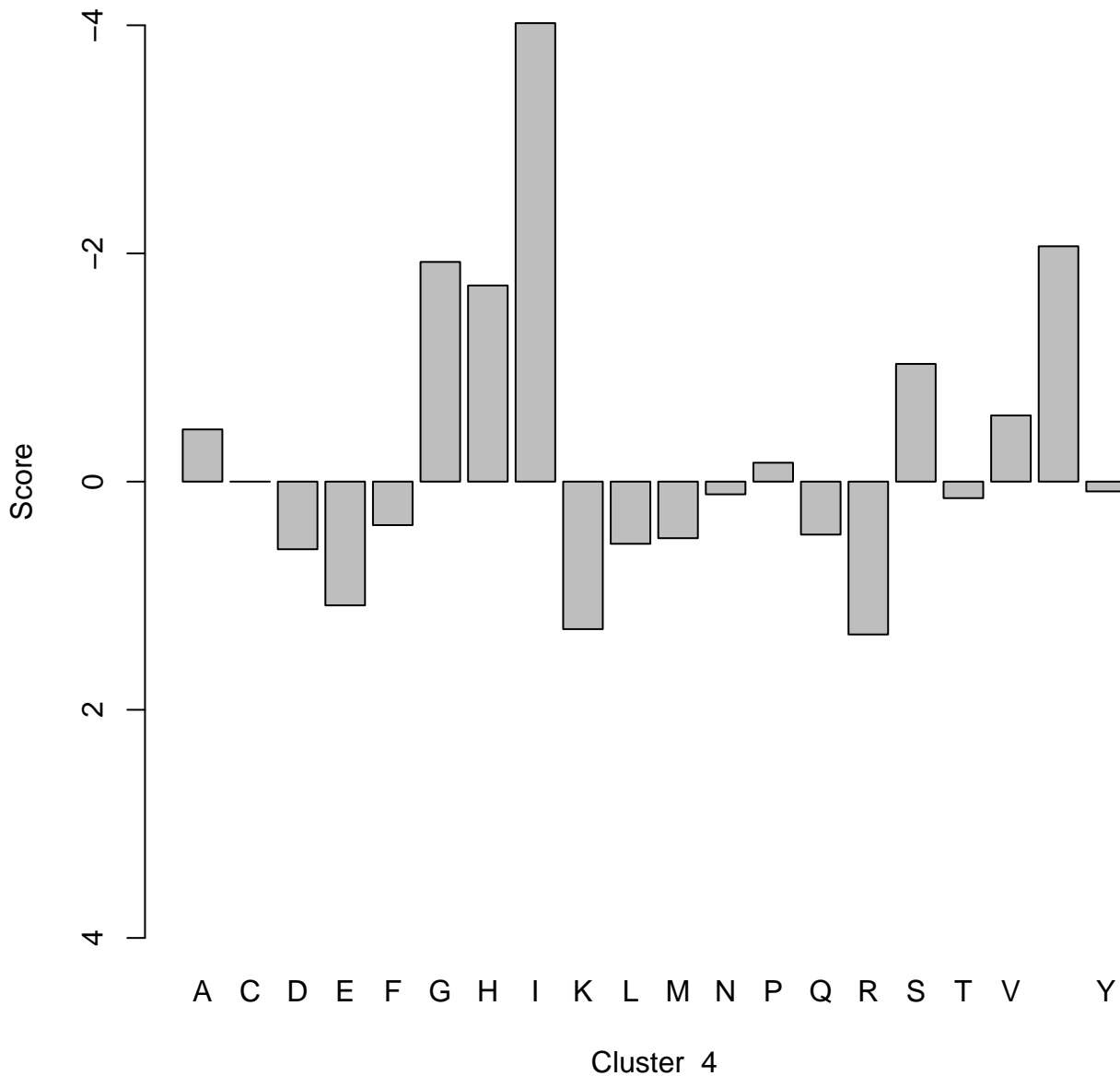
Distribution des scores (Méthodes Kmeans)



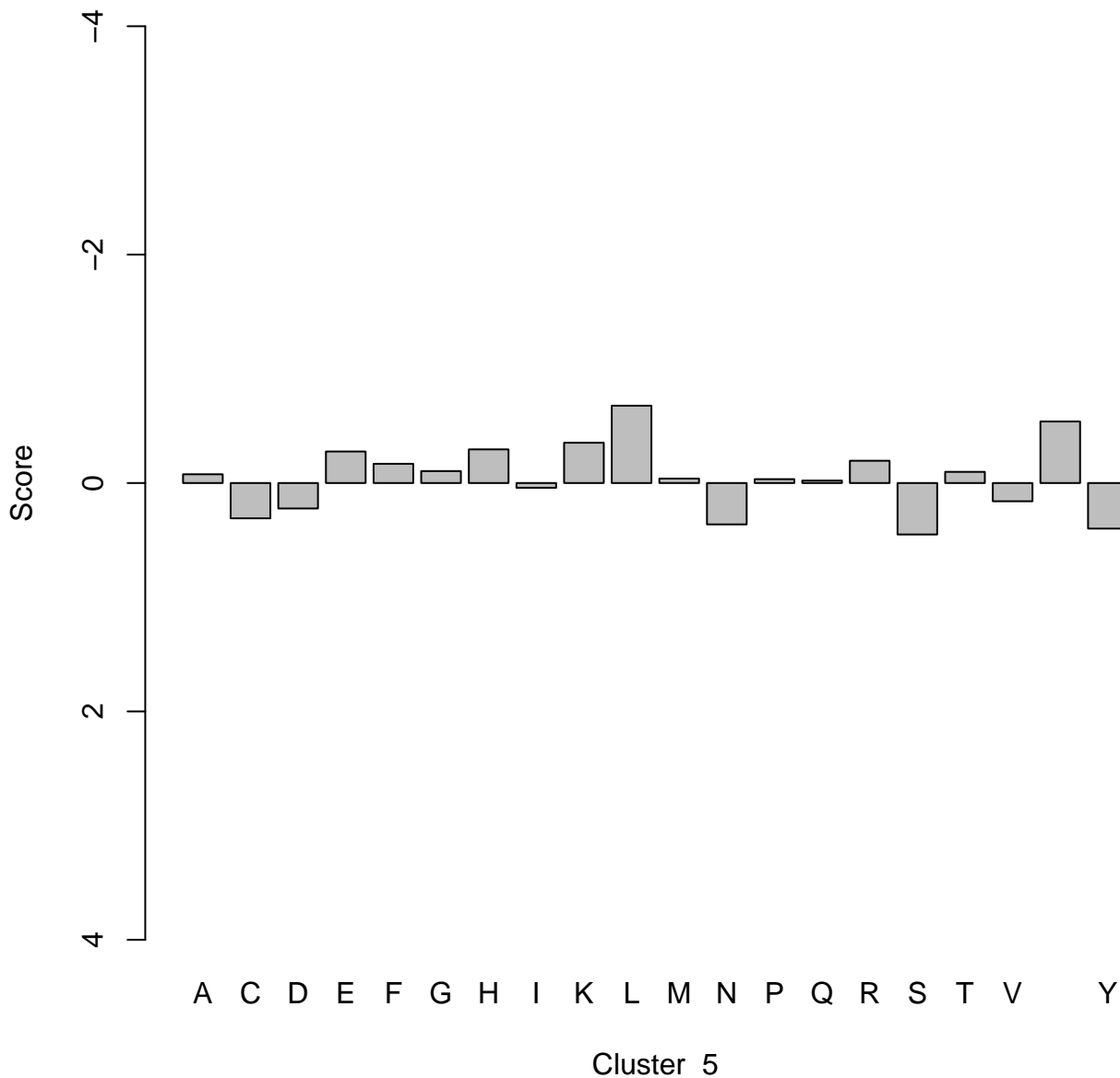
Distribution des scores (Méthodes Kmeans)



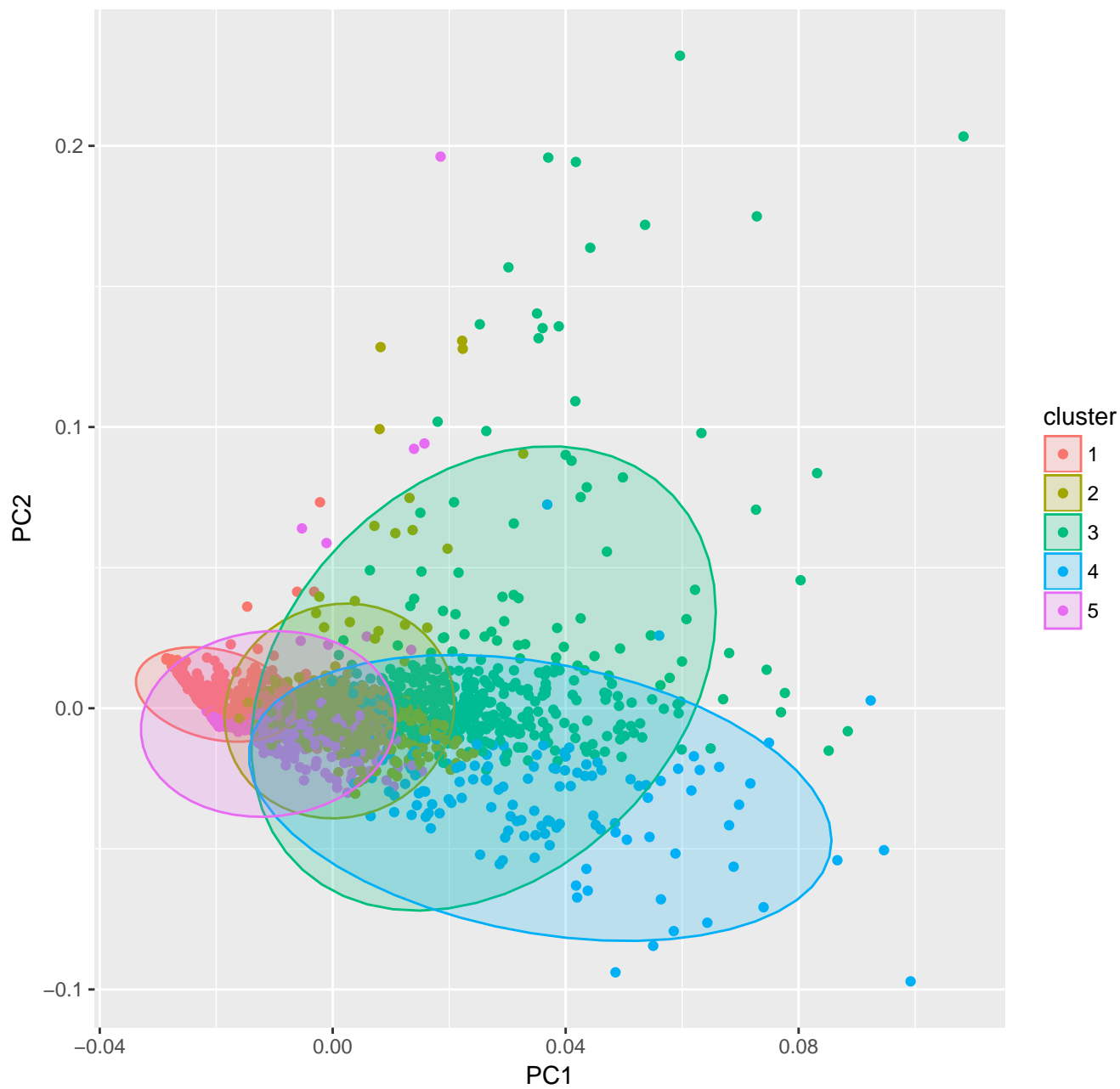
Distribution des scores (Méthodes Kmeans)



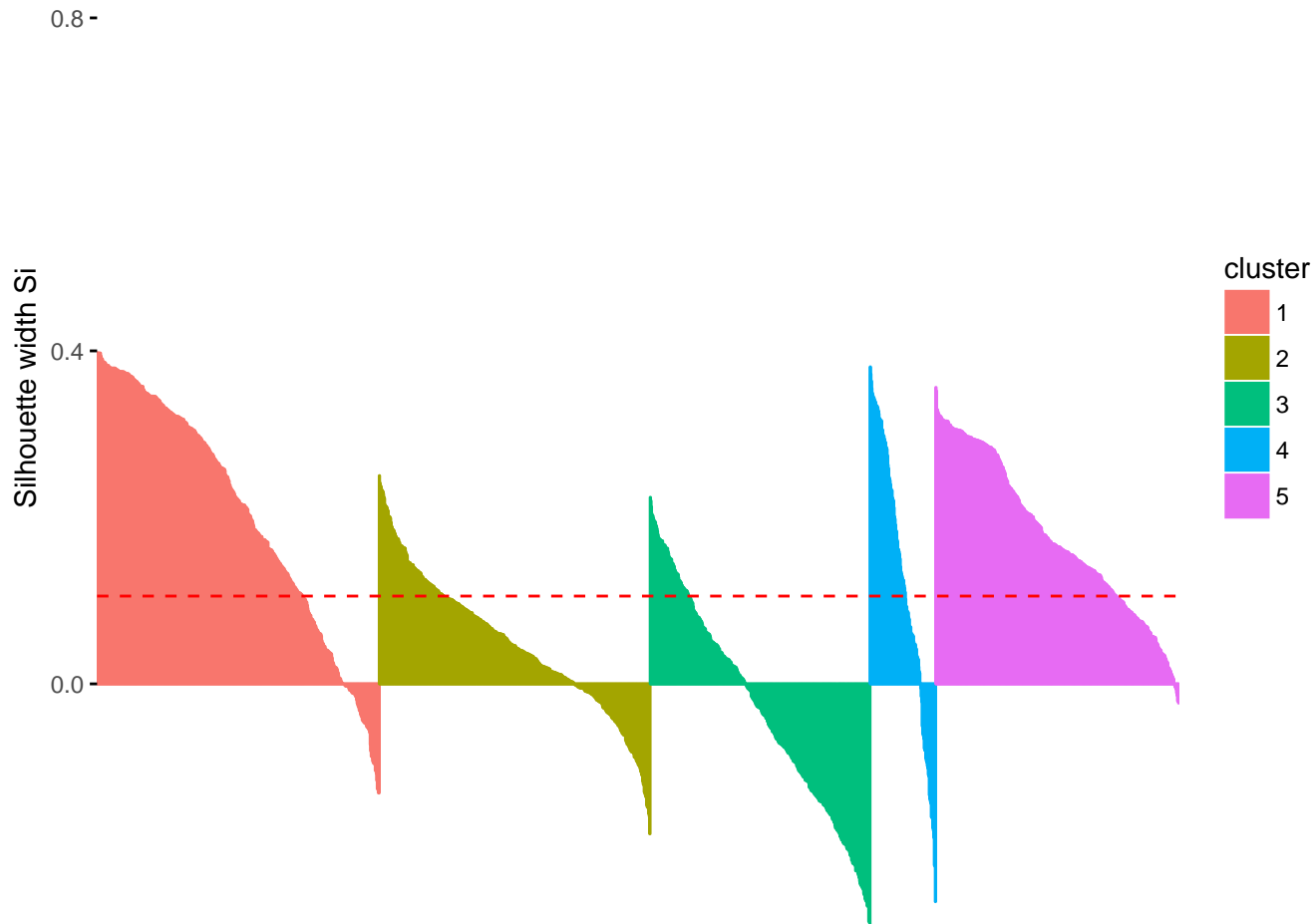
Distribution des scores (Méthodes Kmeans)



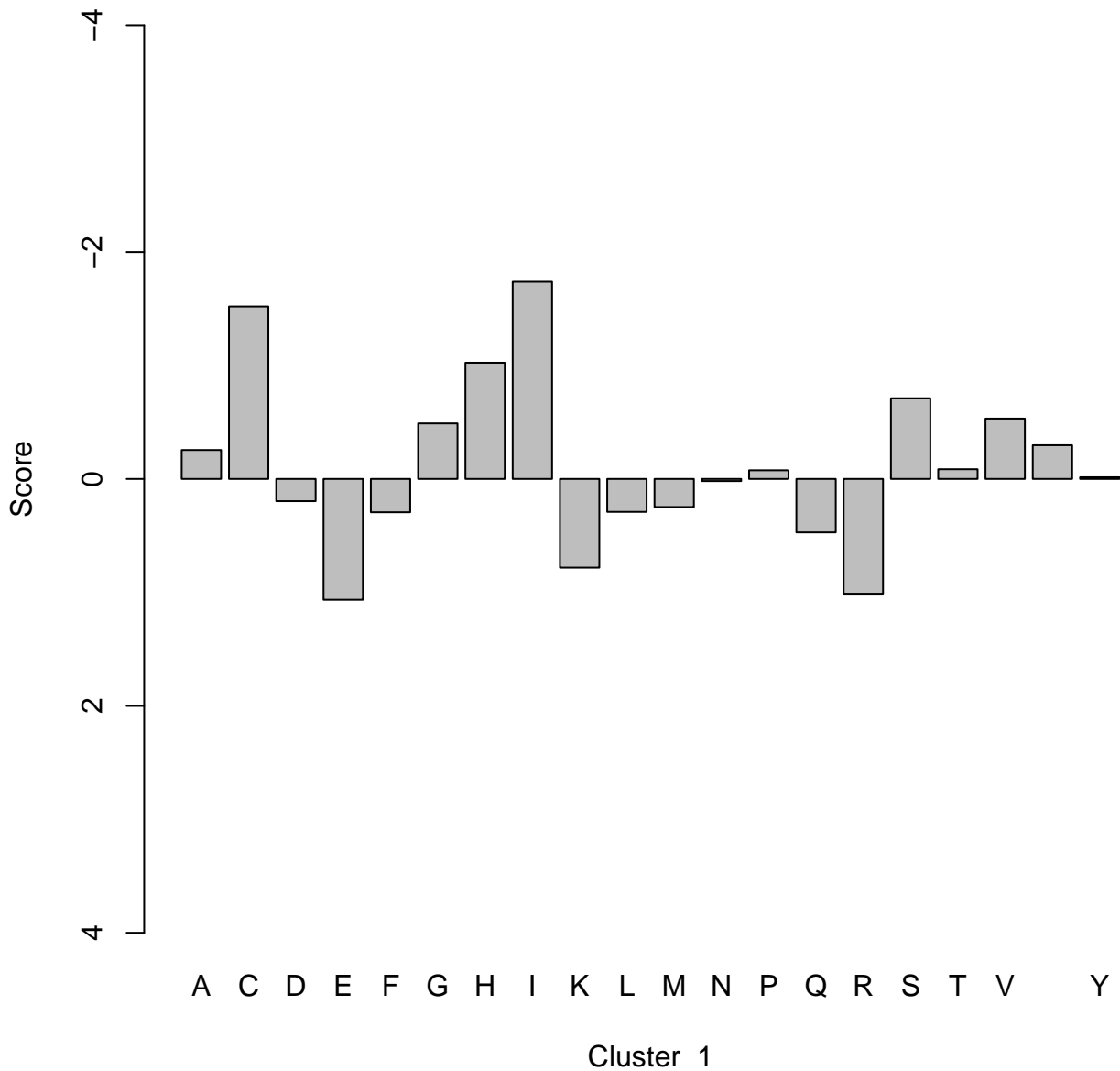
Clustering par Kmedoid(PAM)



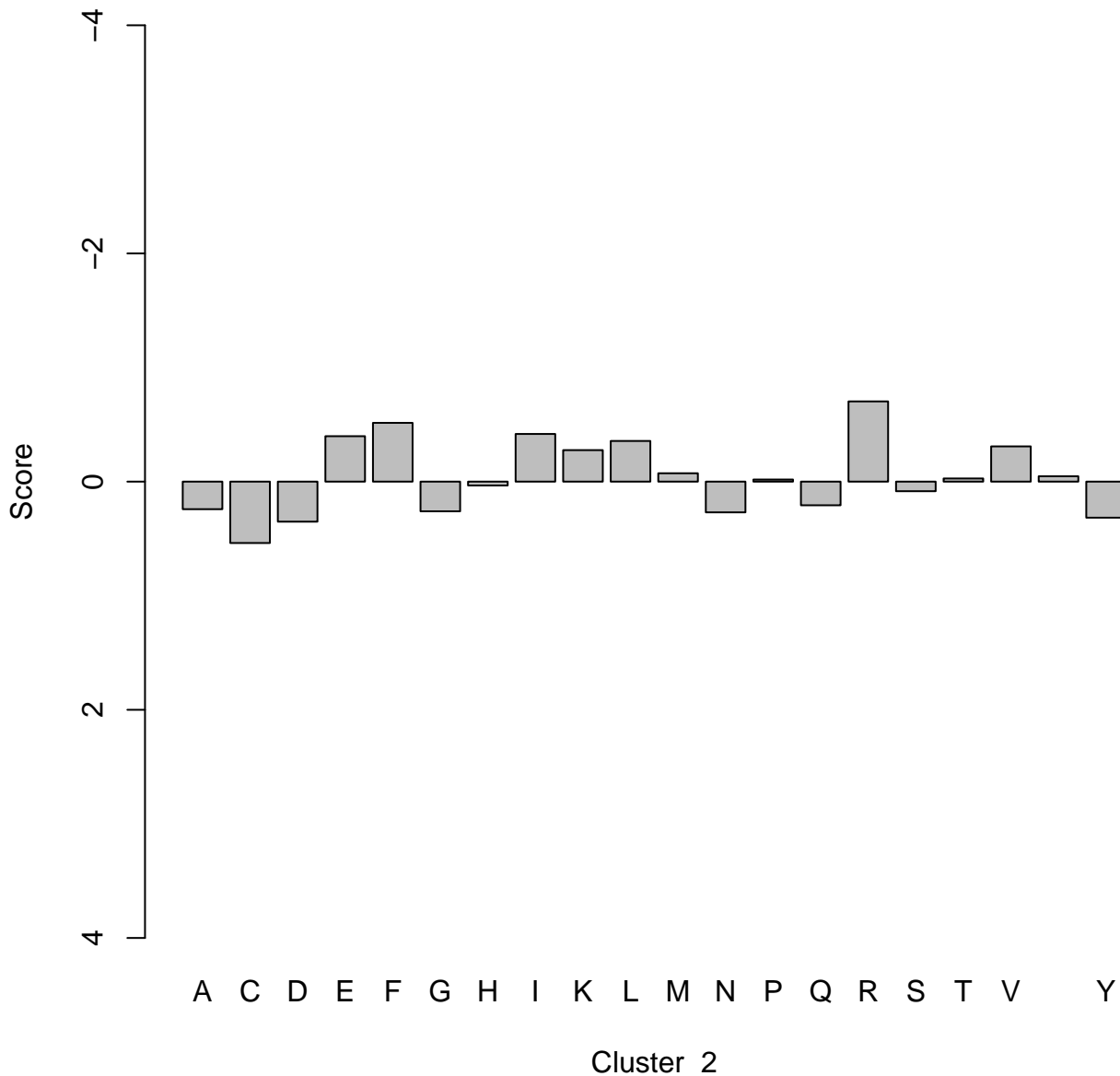
Clusters silhouette plot
Average silhouette width: 0.11



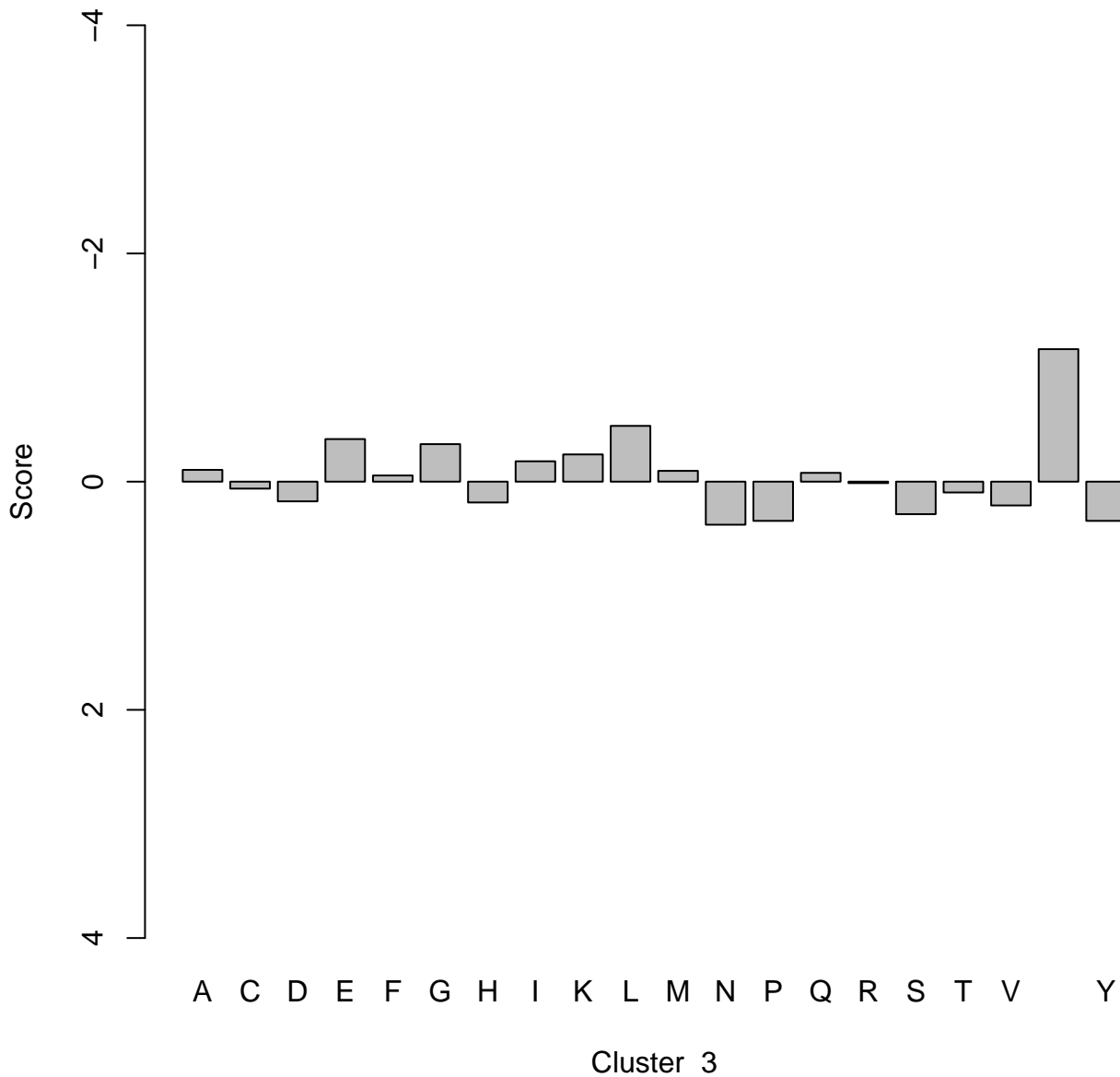
Distribution des scores (Méthode PAM)



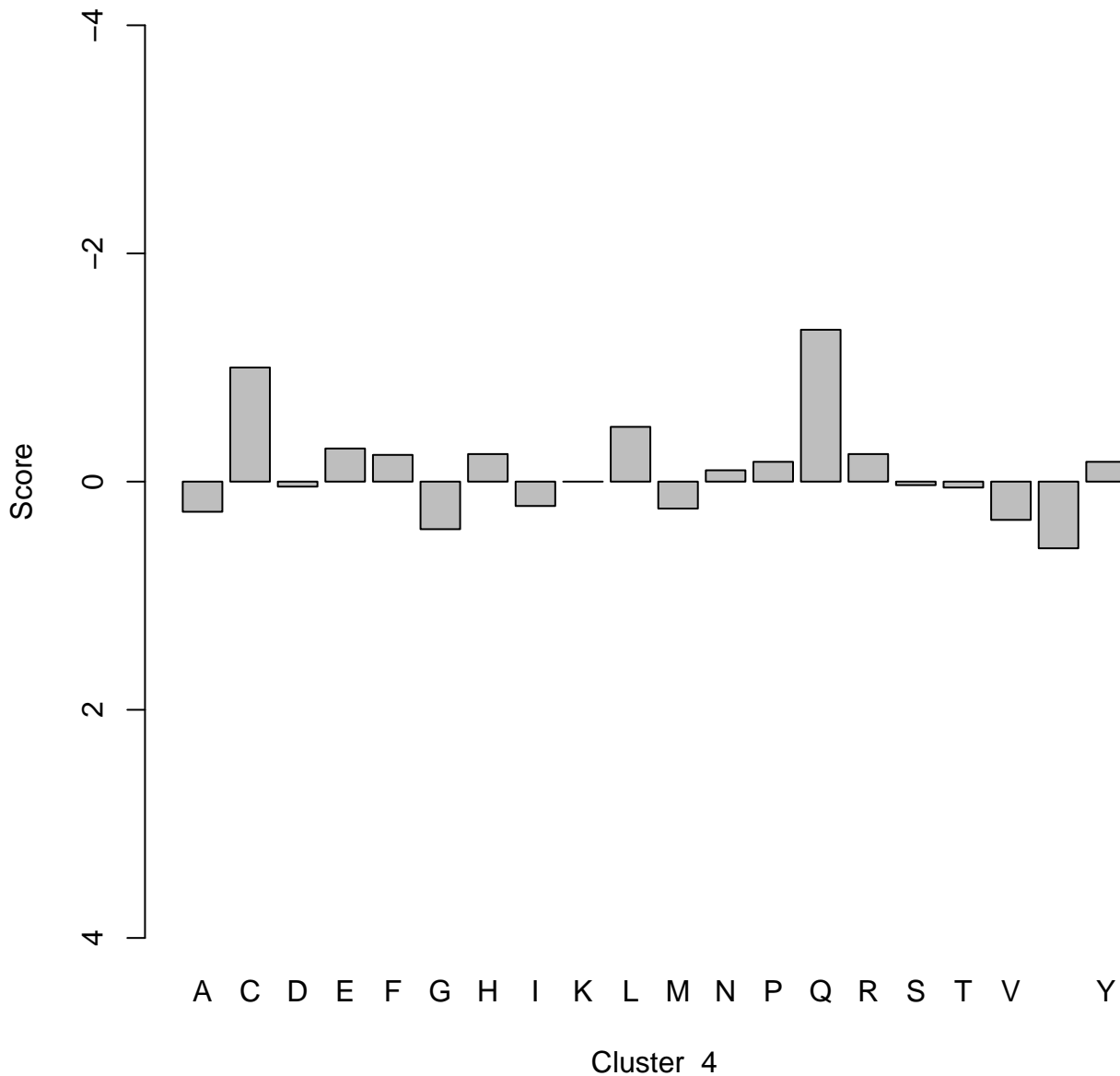
Distribution des scores (Méthode PAM)



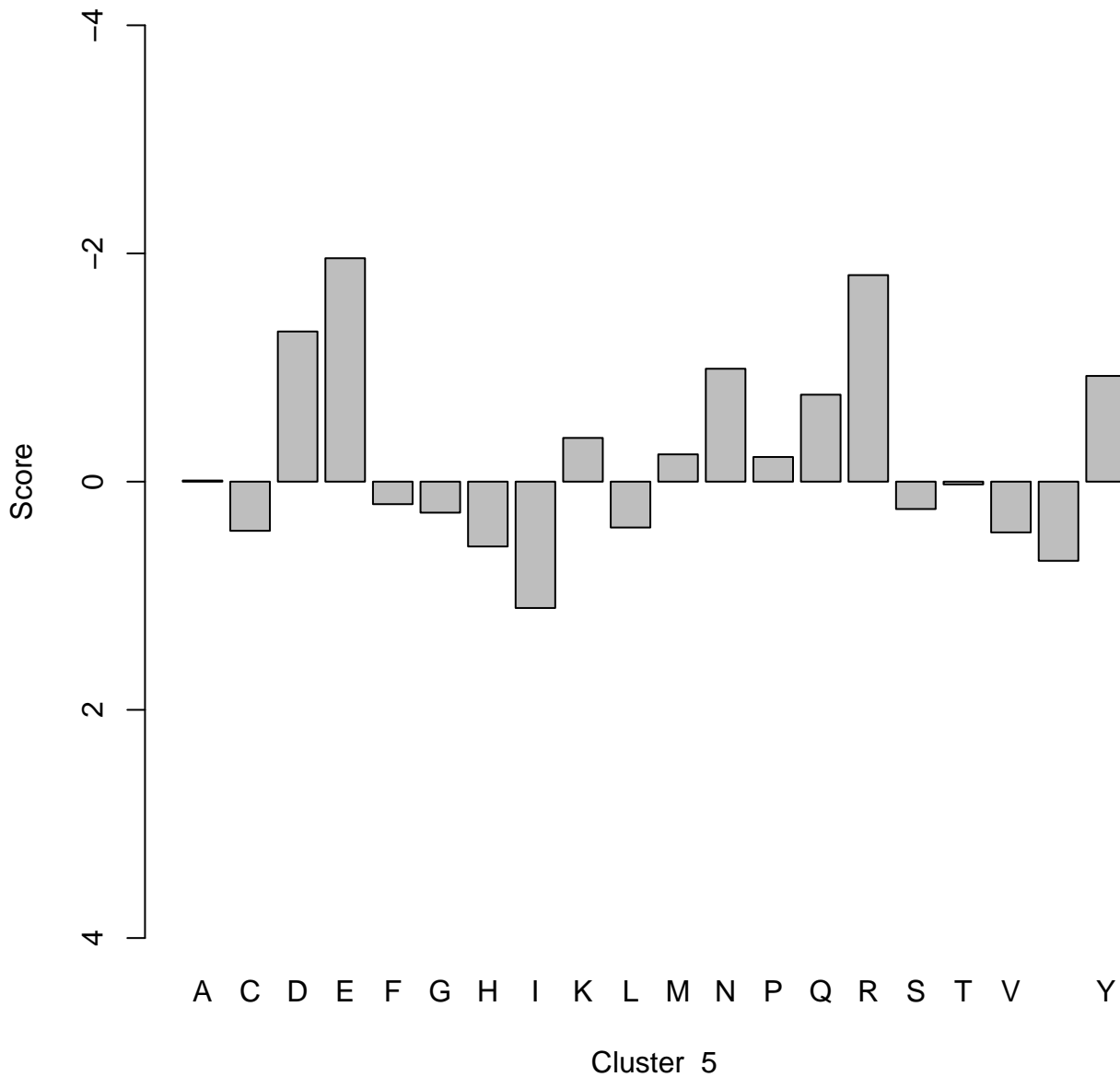
Distribution des scores (Méthode PAM)



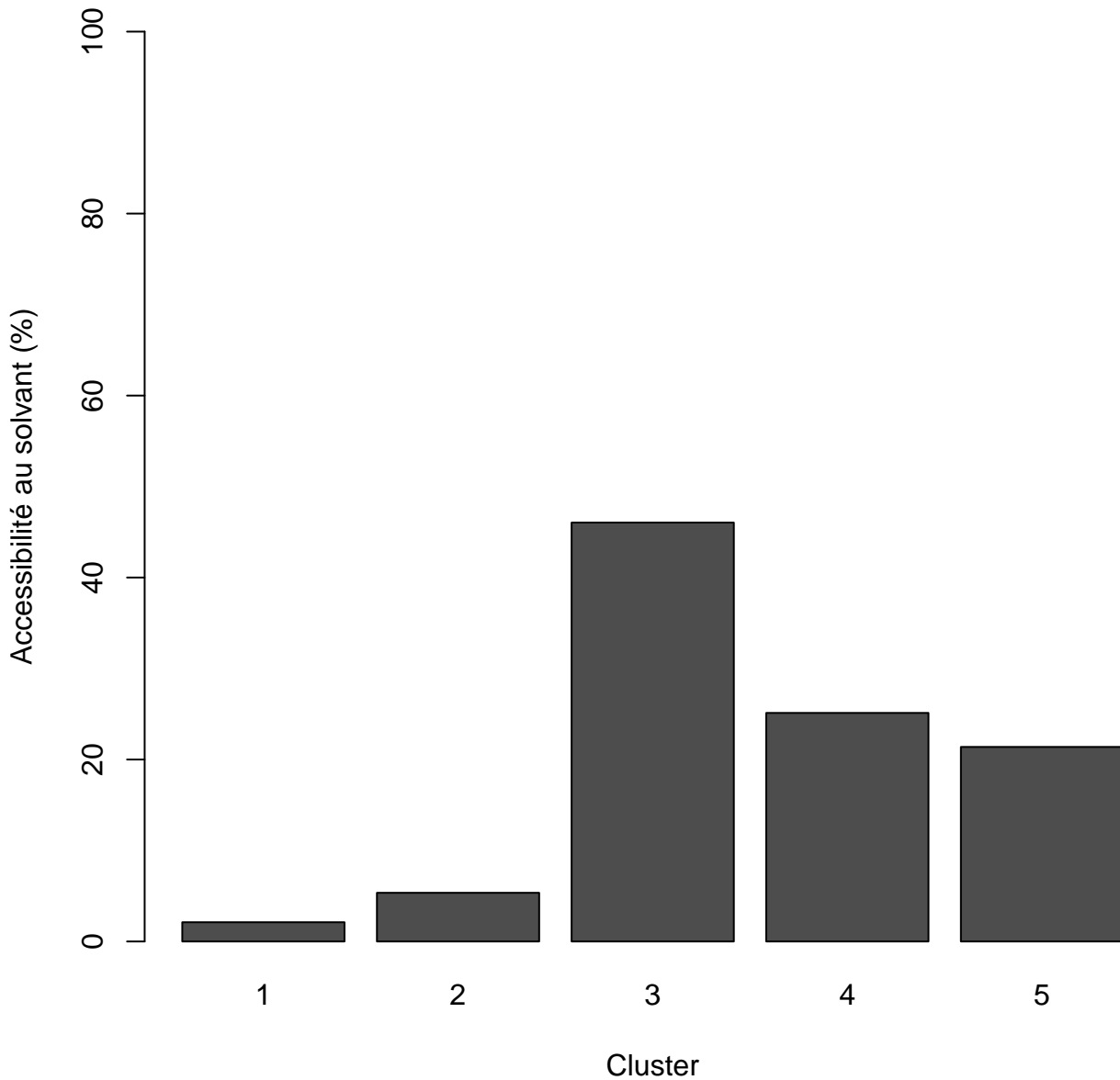
Distribution des scores (Méthode PAM)



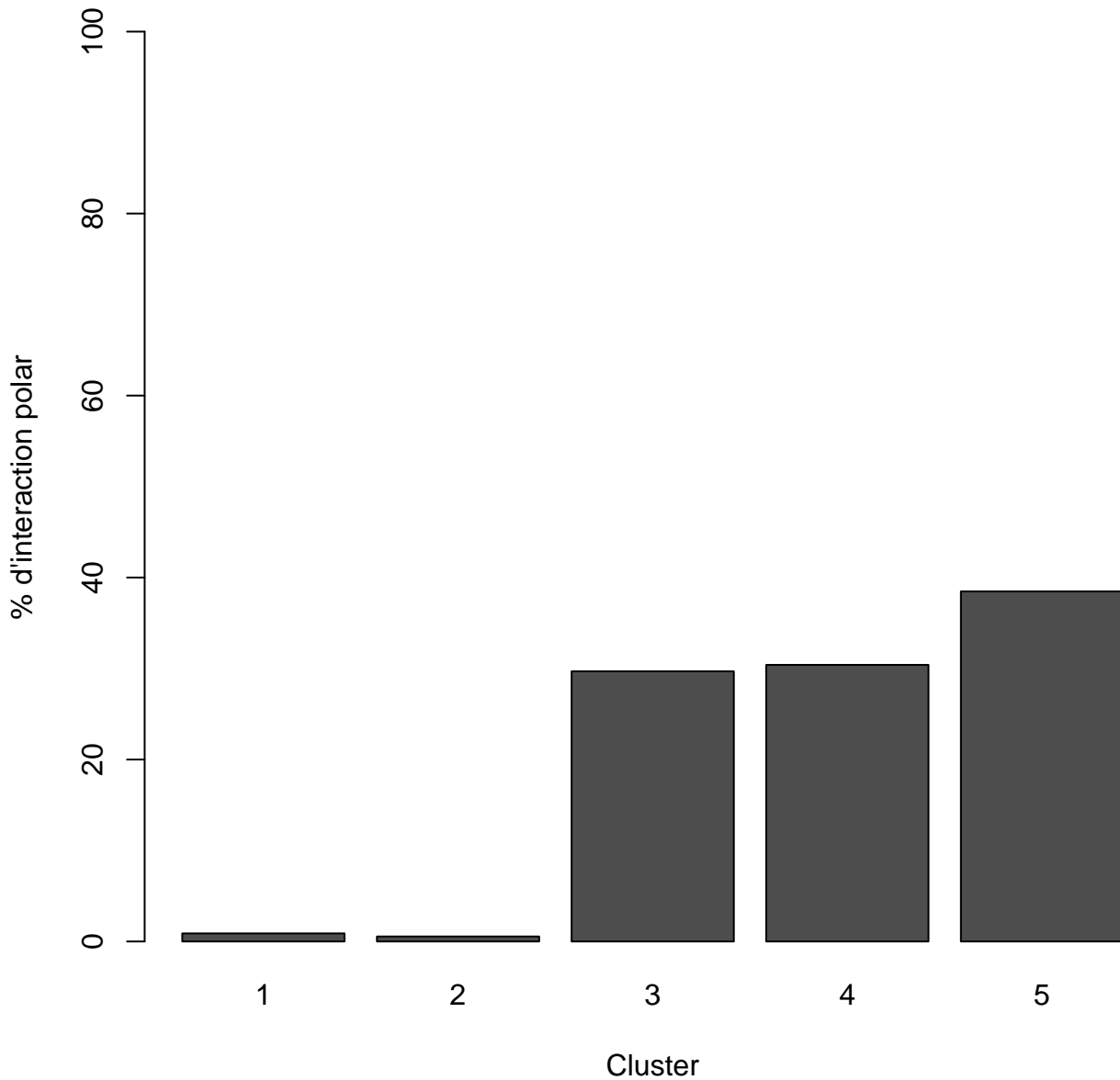
Distribution des scores (Méthode PAM)



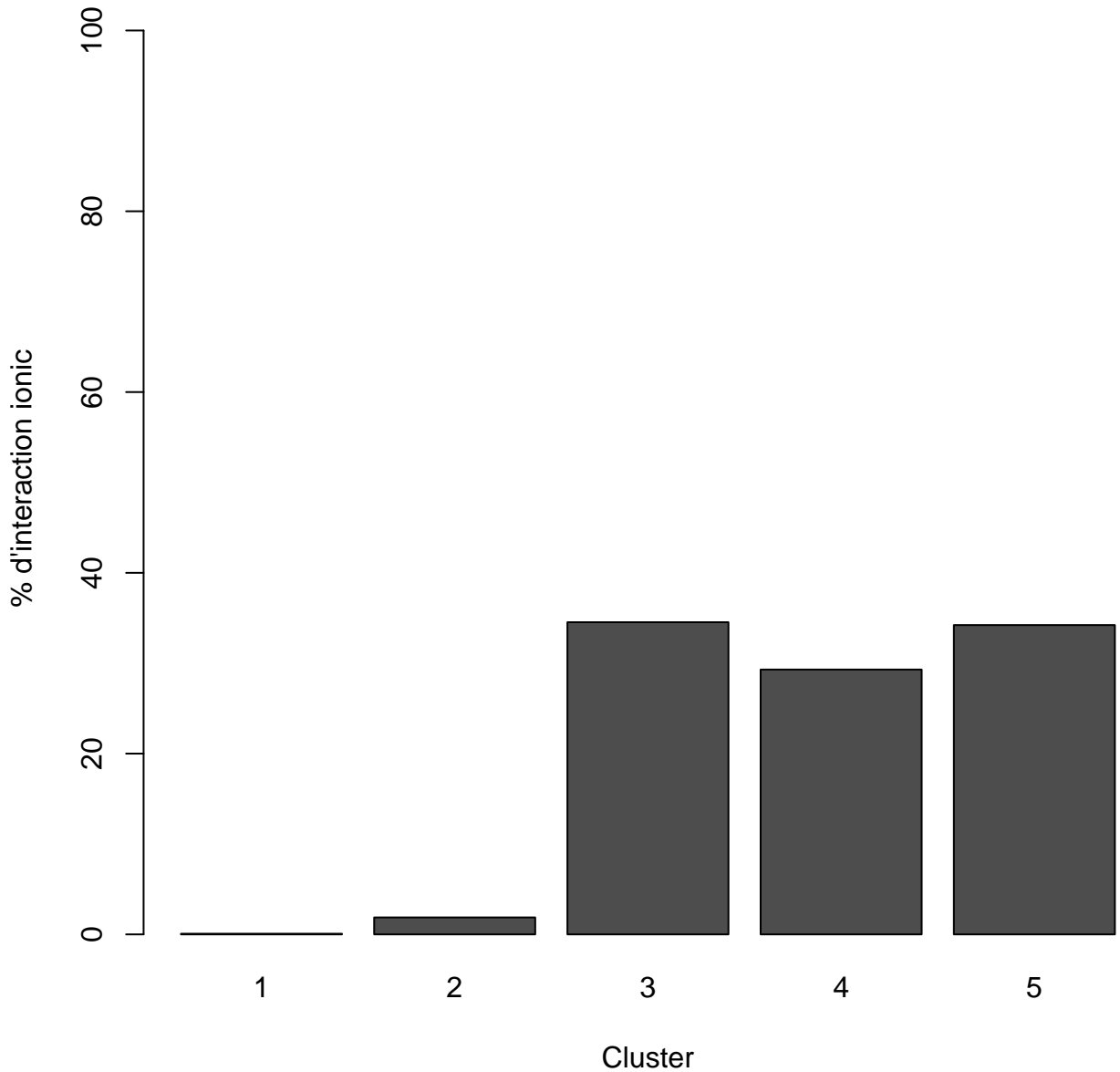
Accessibilité au solvant (%) Kmeans



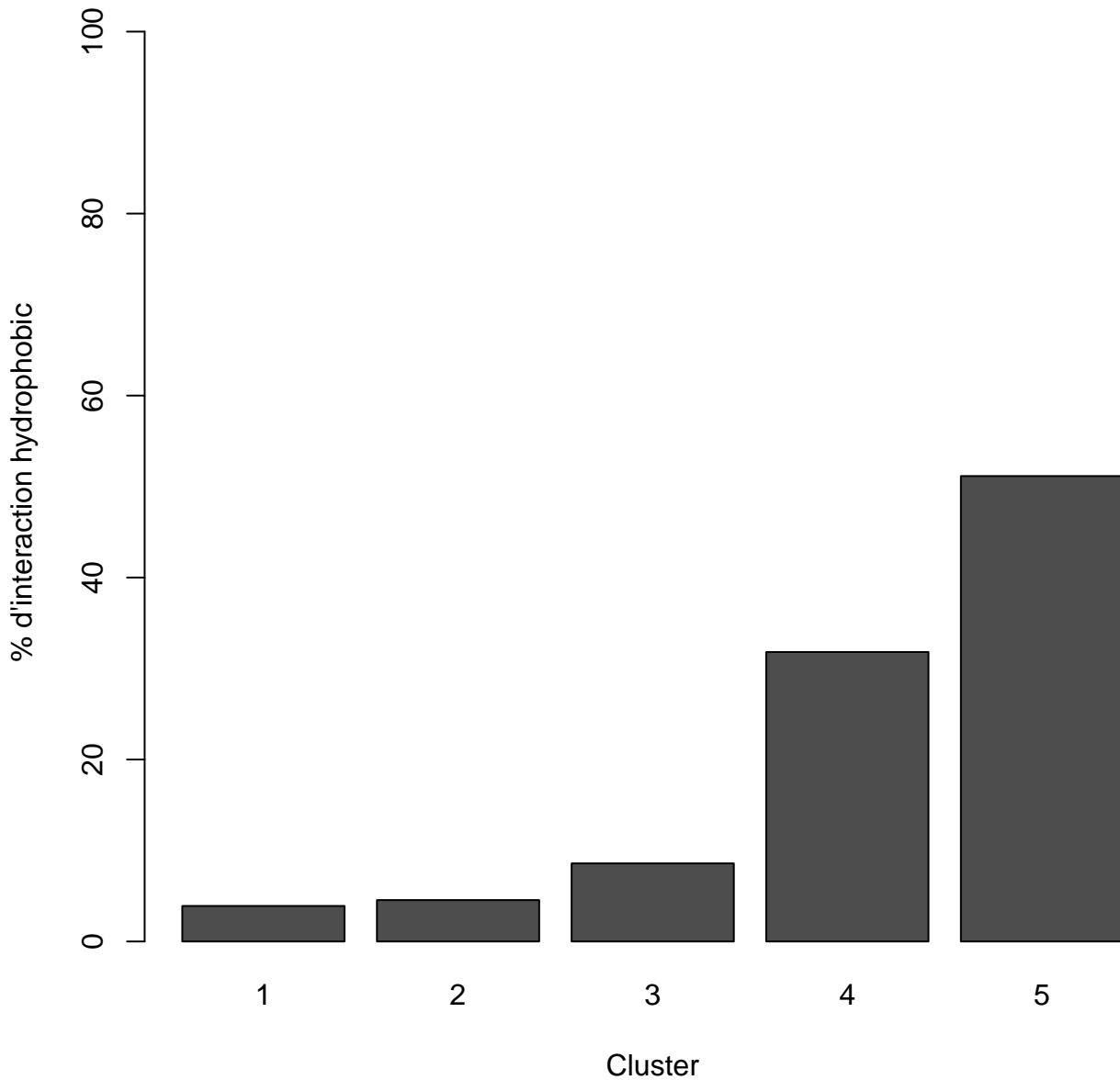
% d'interaction polar Kmeans



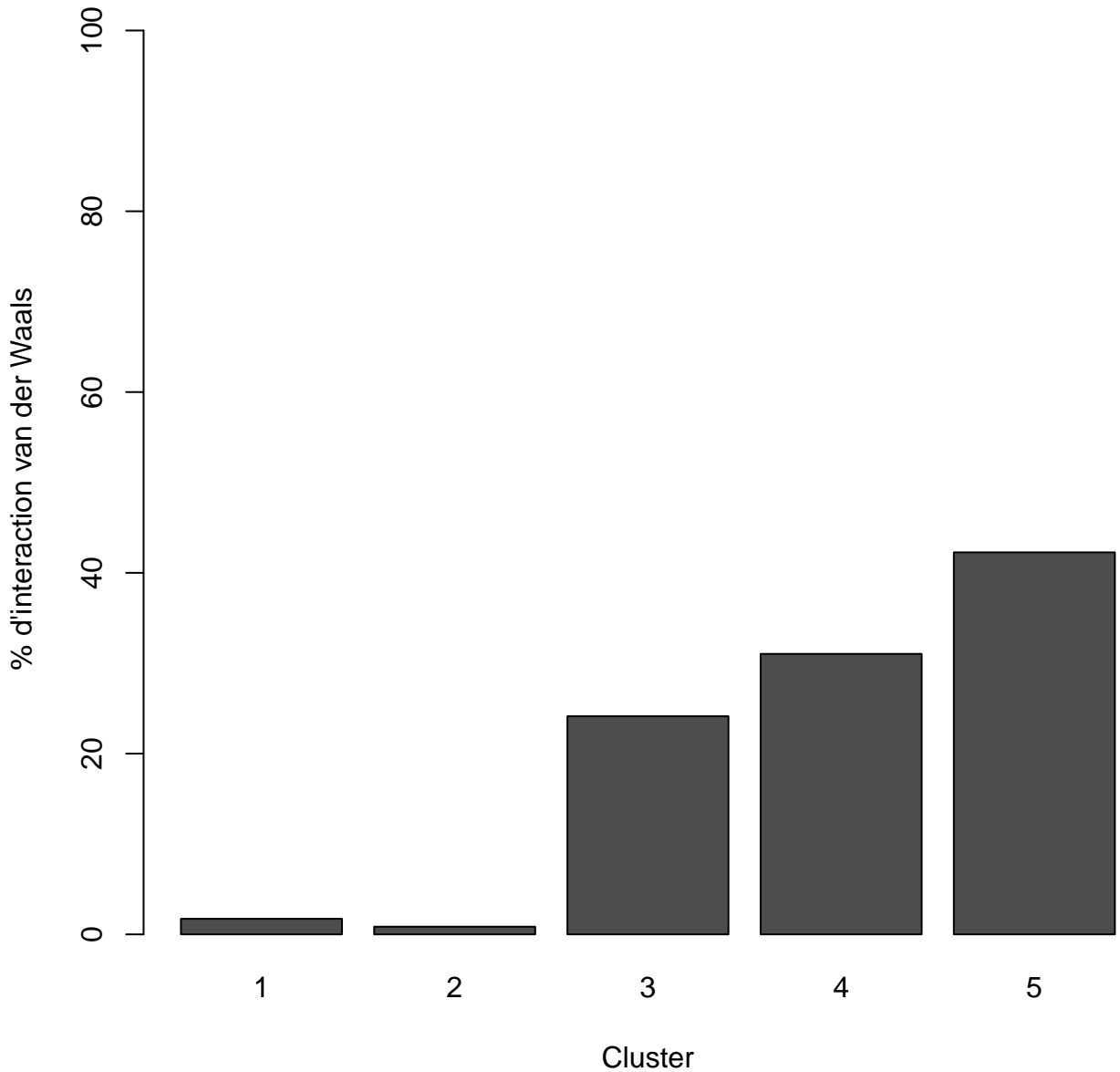
% d'interaction ionic Kmeans



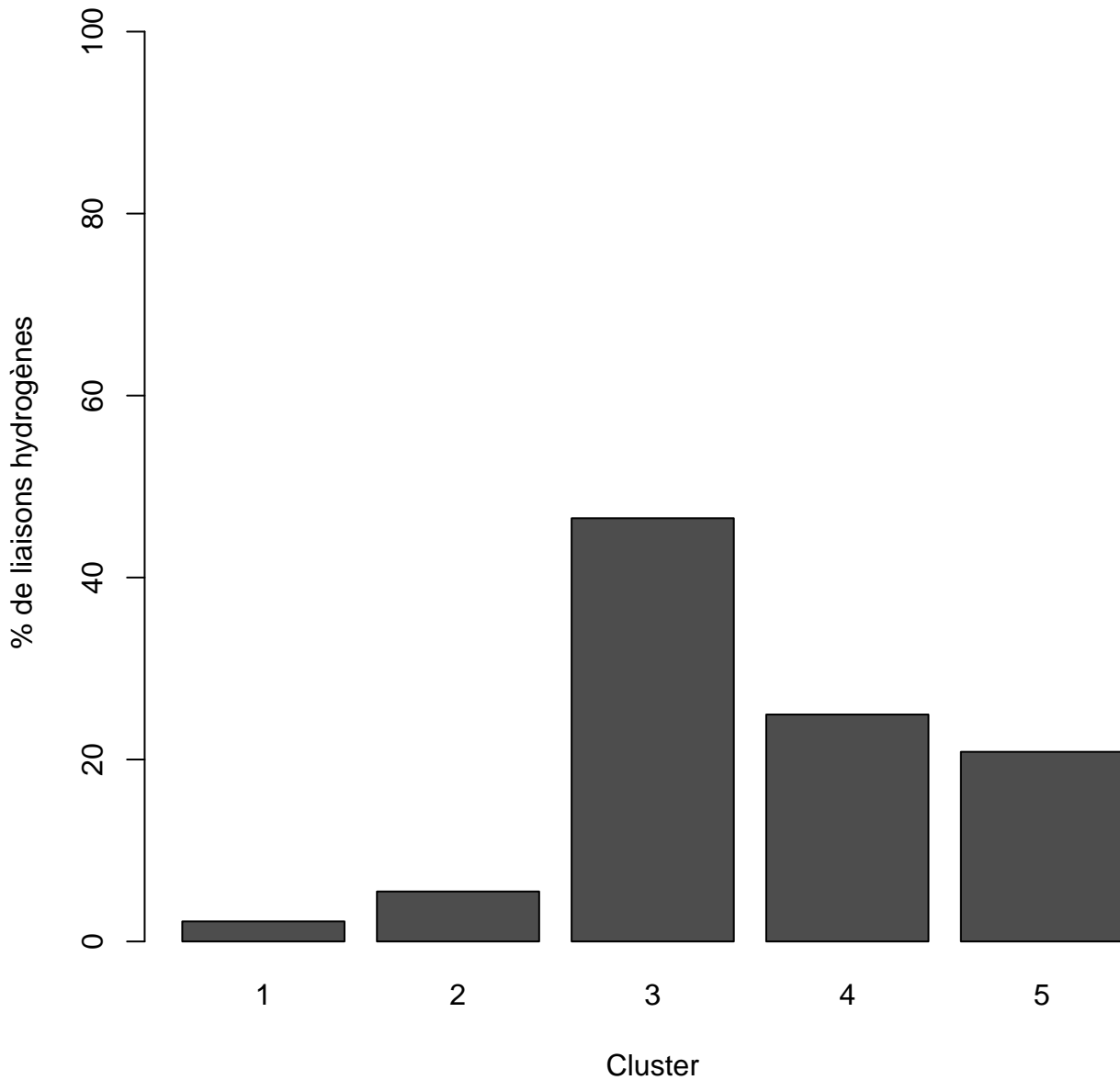
% d'interaction hydrophobic Kmeans



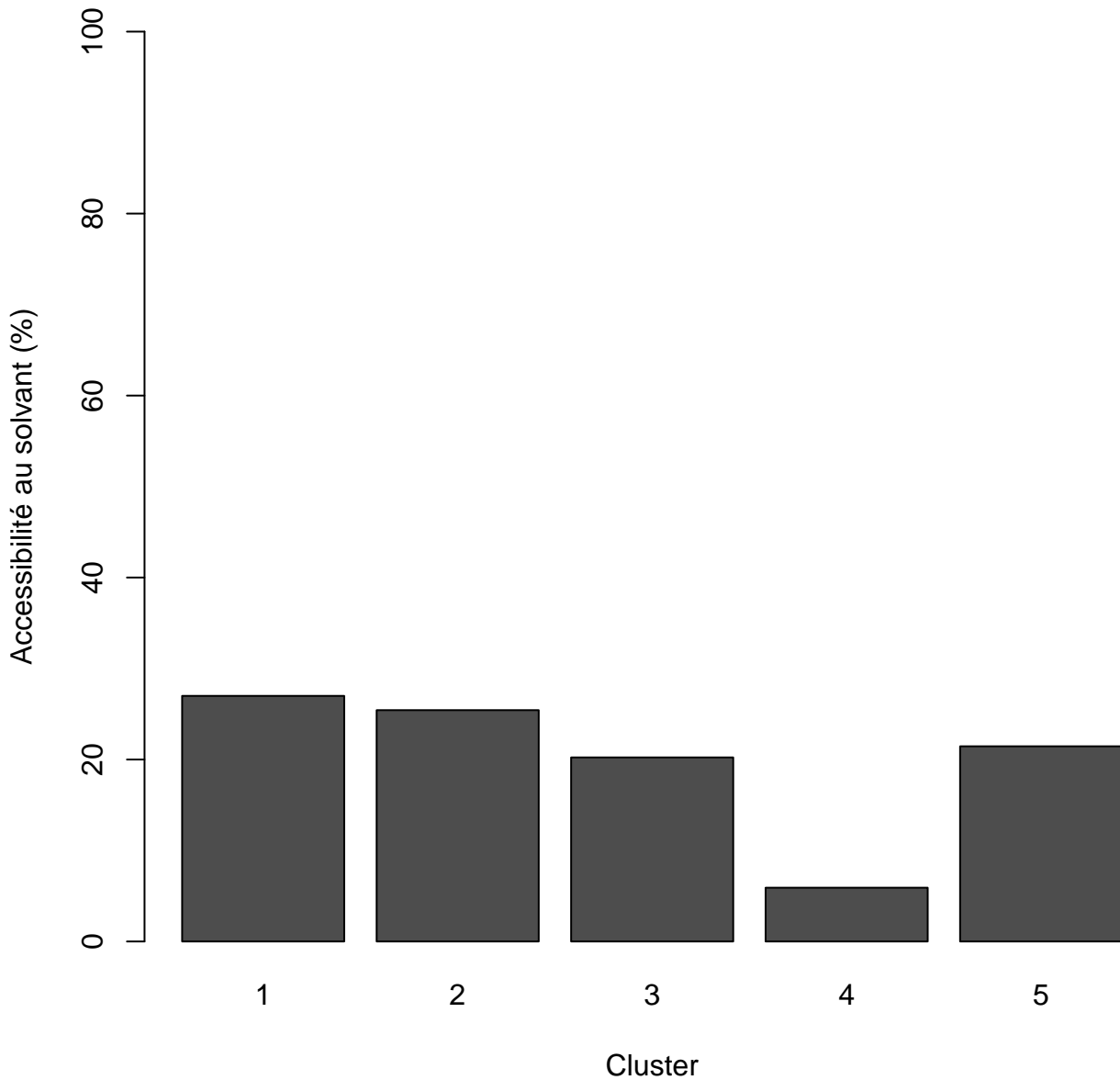
% d'interaction van der Waals Kmeans



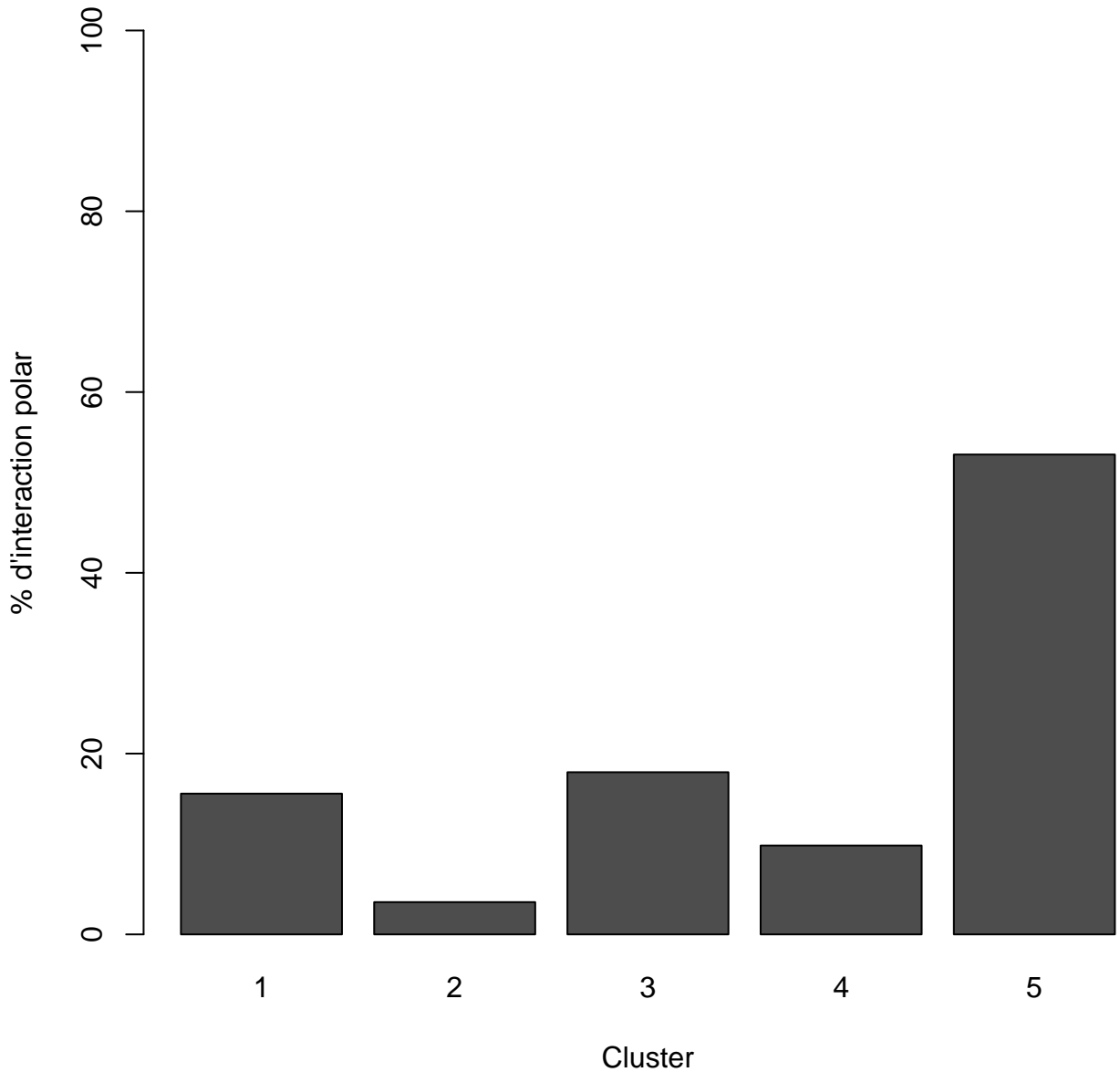
% de liaisons hydrogènes Kmeans



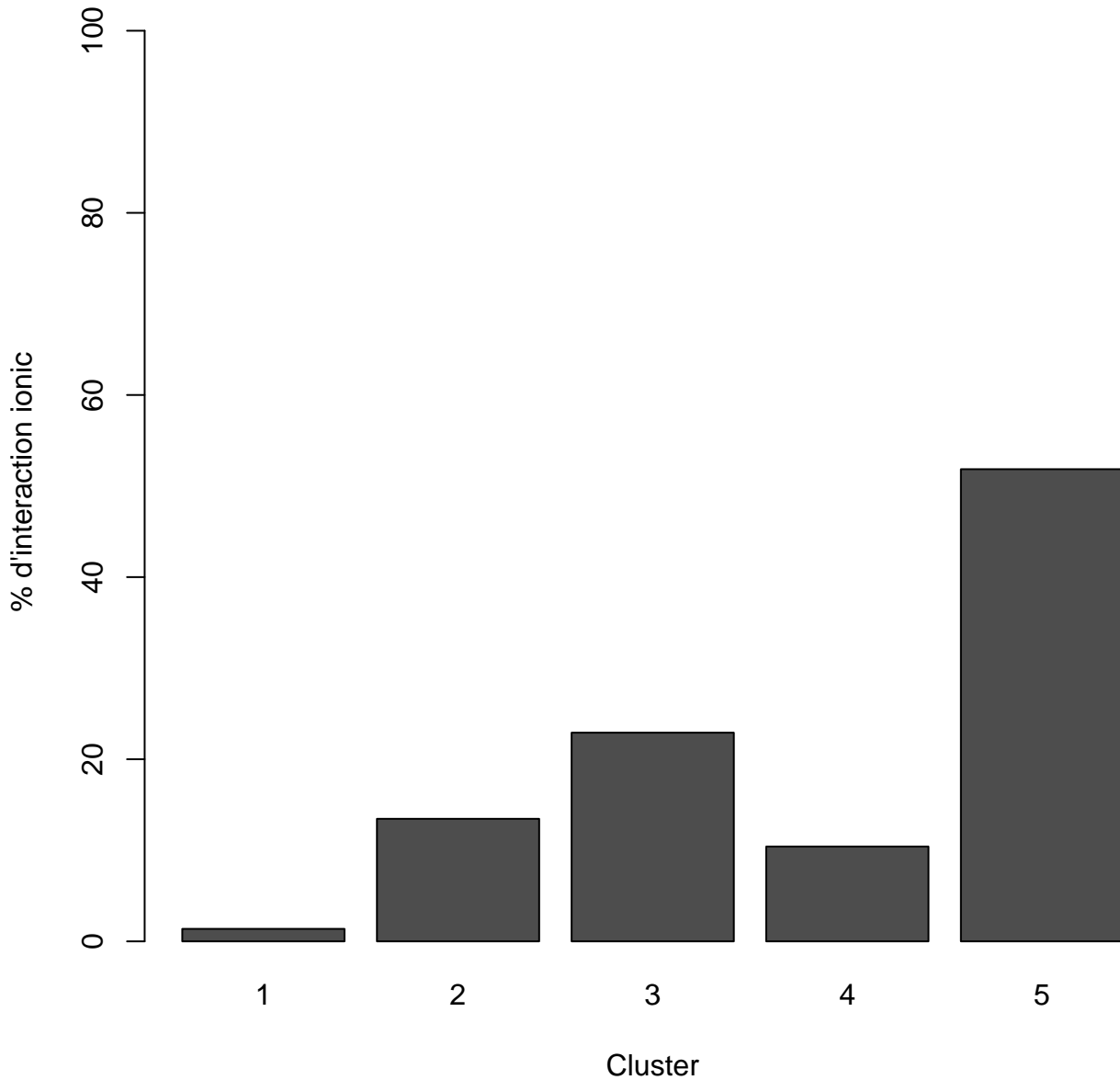
Accessibilité au solvant (%) Kmedoid



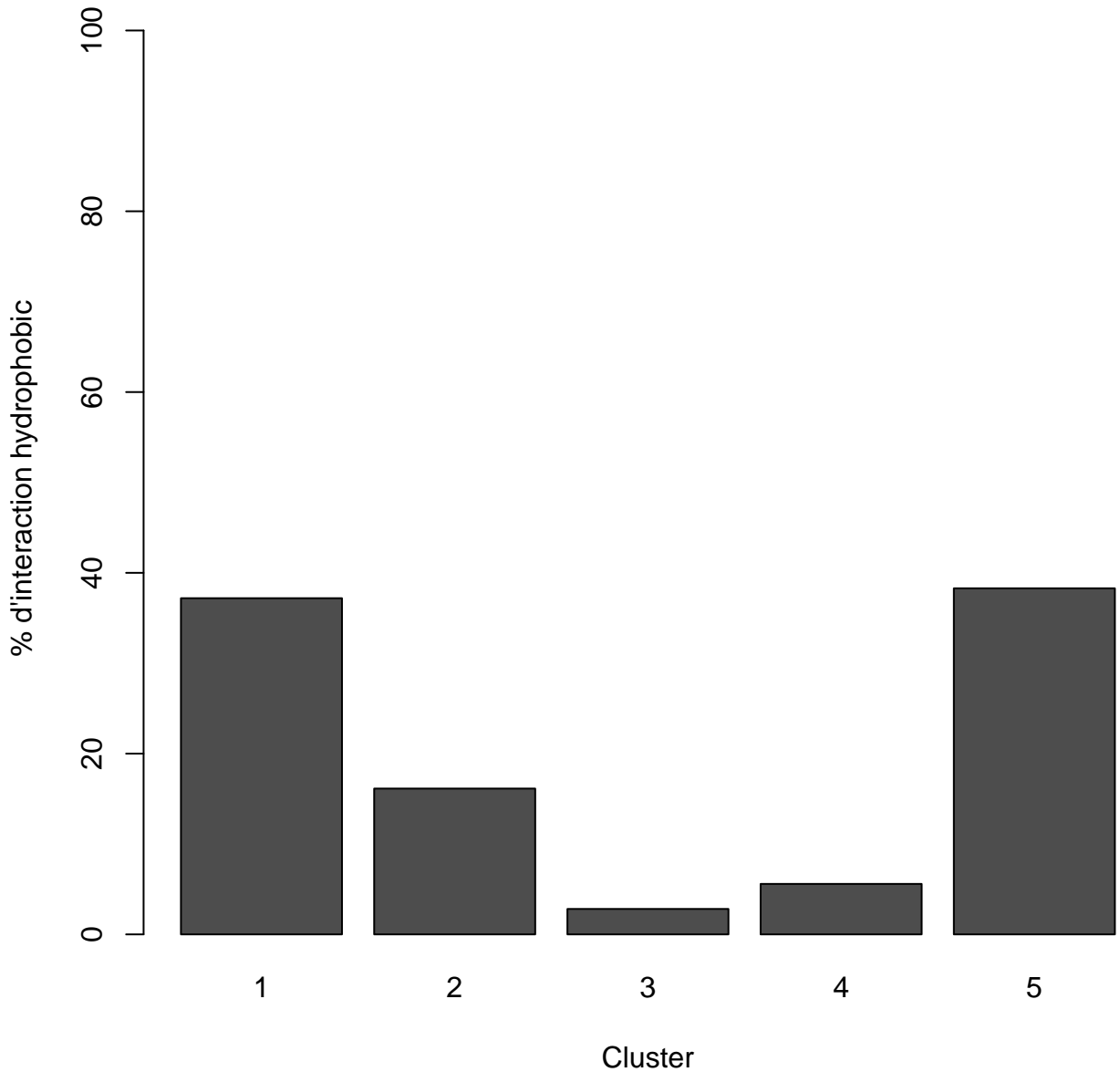
% d'interaction polar Kmedoid



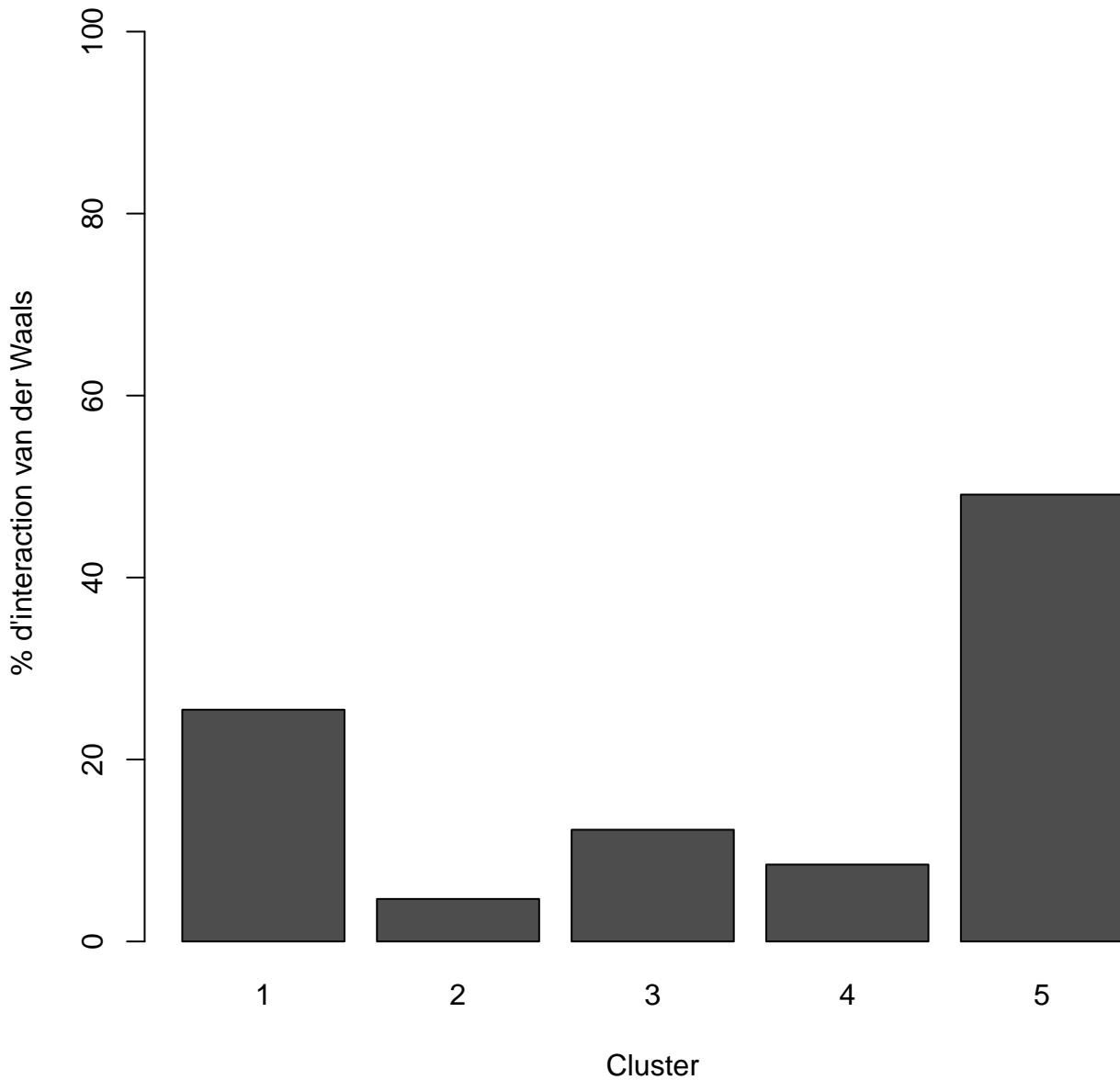
% d'interaction ionic Kmedoid



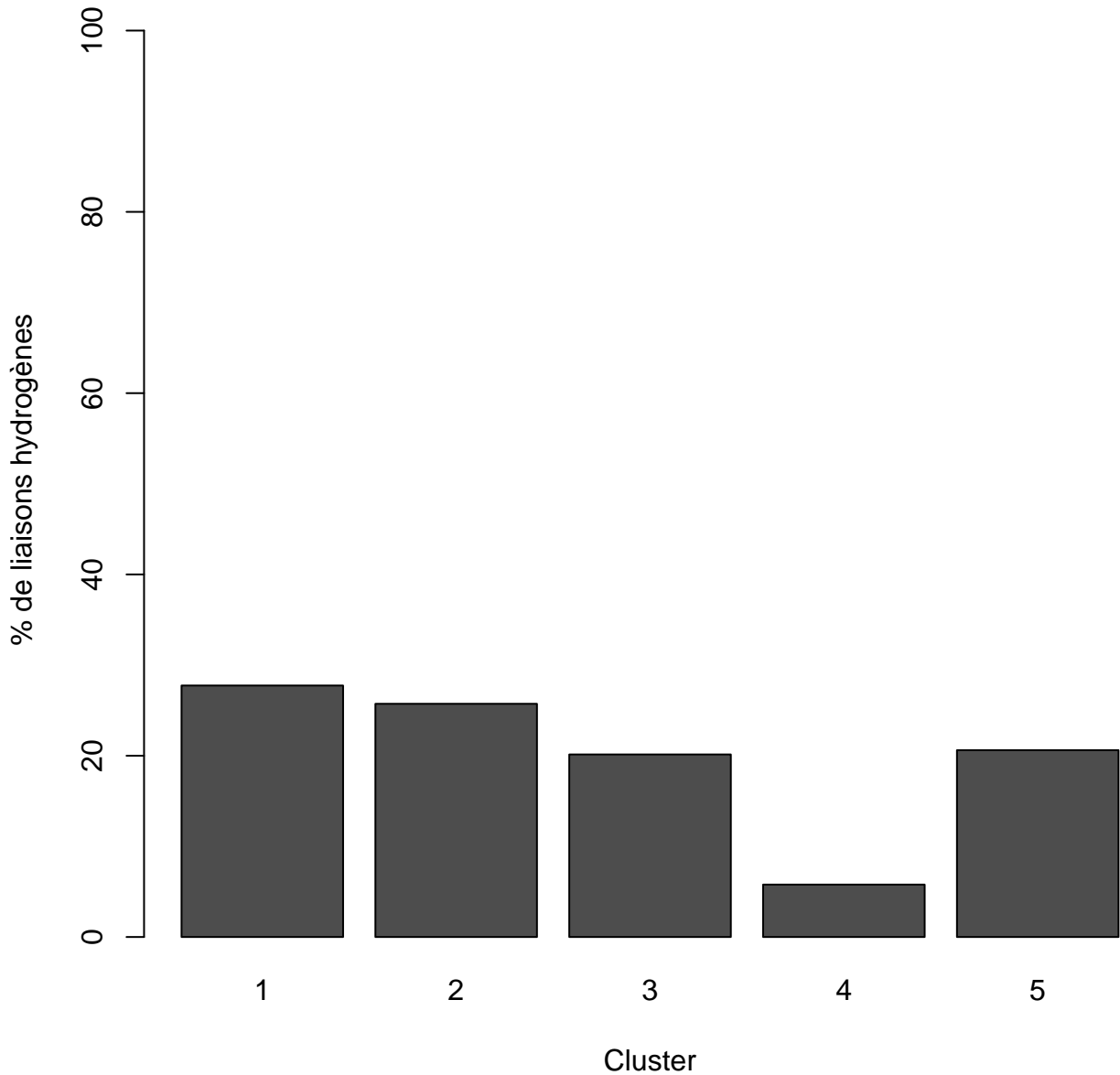
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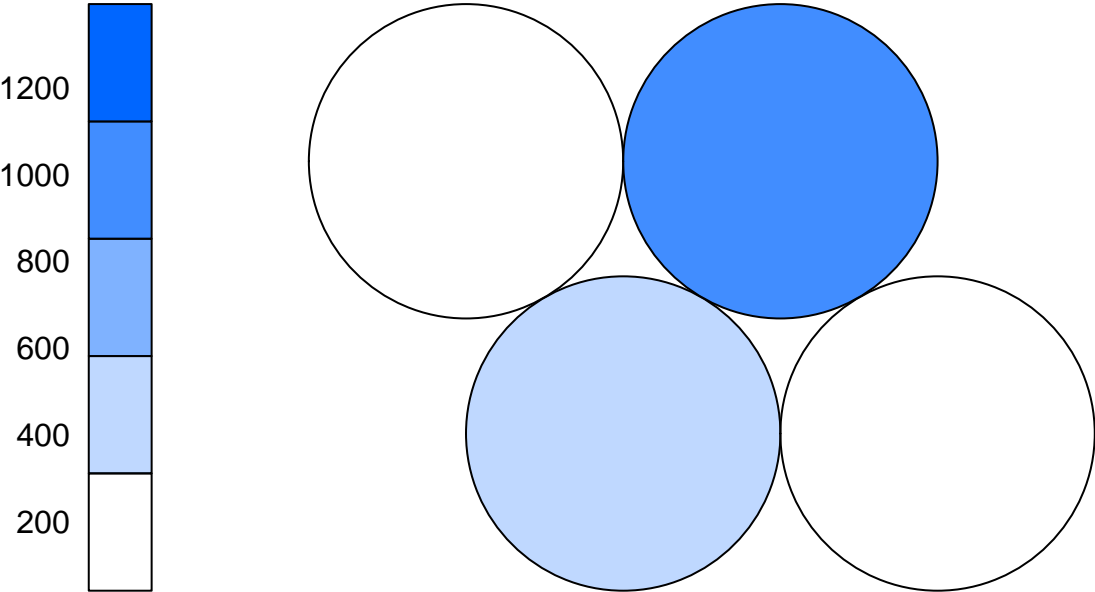
% d'interaction van der Waals Kmedoid



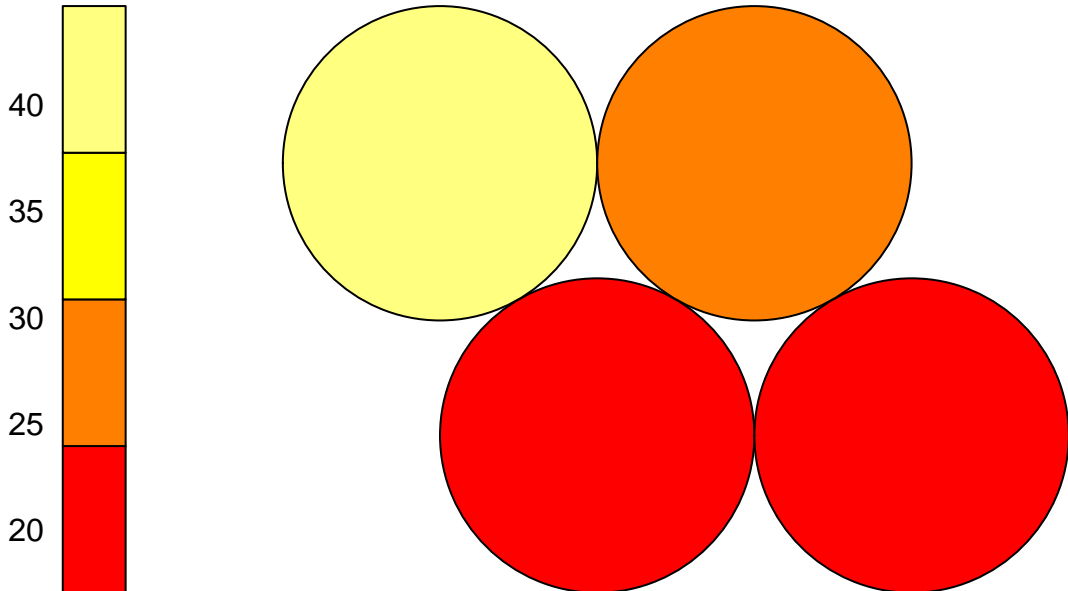
% de liaisons hydrogènes Kmedoid



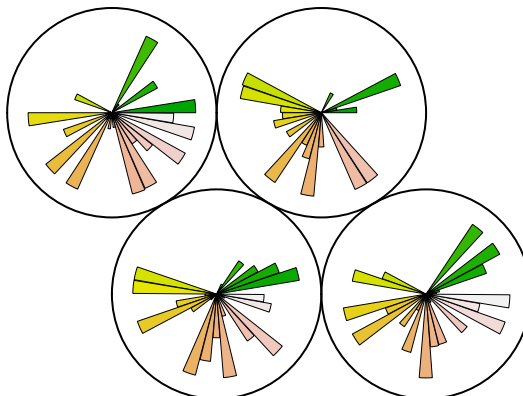
Carte de Kohonen n= 4



Neighbour distance plot

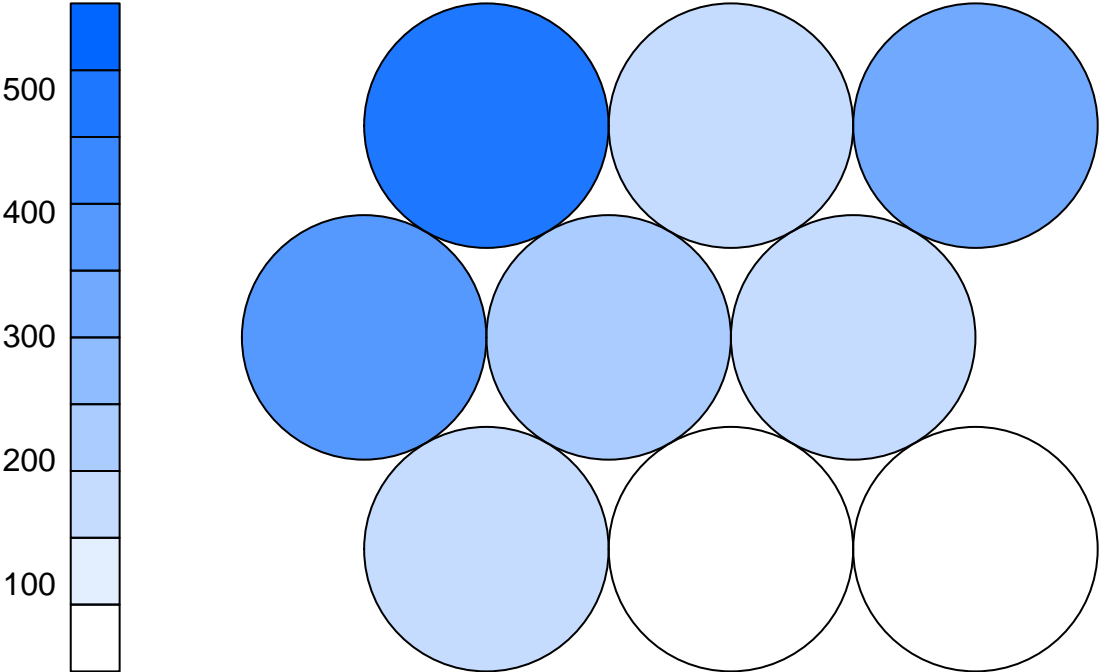


Codes plot

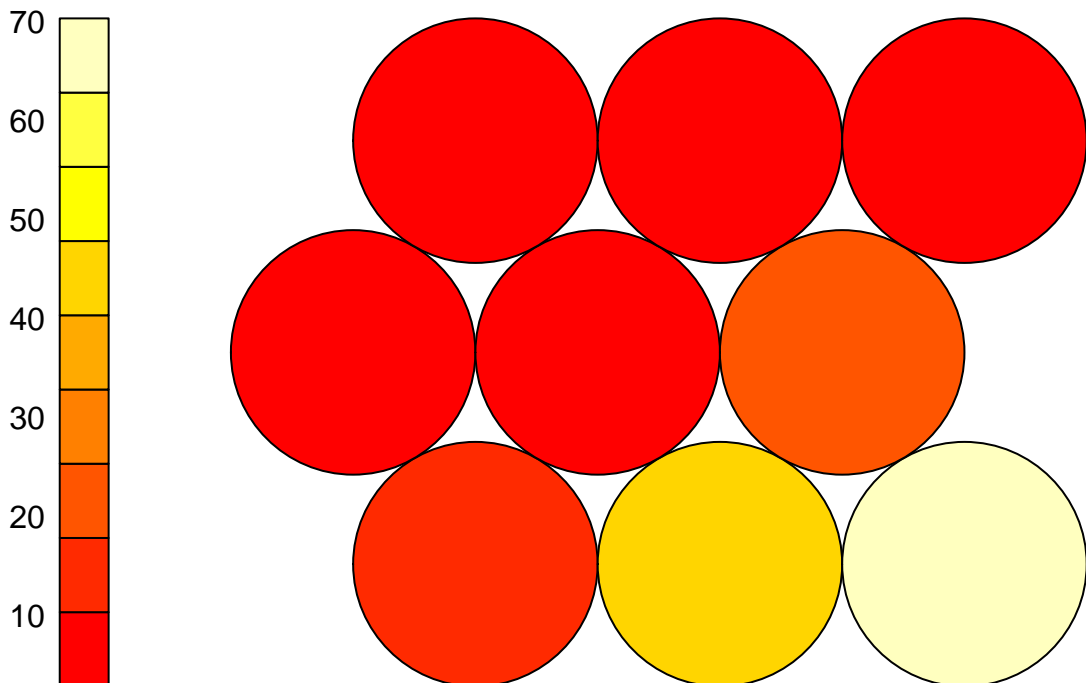


■ H_ss	■ c_PB
■ B_ss	■ d_PB
■ E_ss	■ e_PB
■ G_ss	■ f_PB
■ I_ss	■ g_PB
■ T_ss	■ h_PB
■ S_ss	■ i_PB
■ X_ss	■ j_PB
■ o_ss	■ k_PB
■ o_ss.1	■ l_PB
■ o_ss.2	■ m_PB
■ o_ss.3	■ n_PB
■ o_ss.4	■ o_PB
■ o_ss.5	■ p_PB
■ o_ss.6	■ polar
■ o_ss.7	■ ionic
■ ACC	■ hydrophobic

Carte de Kohonen n= 9



Neighbour distance plot

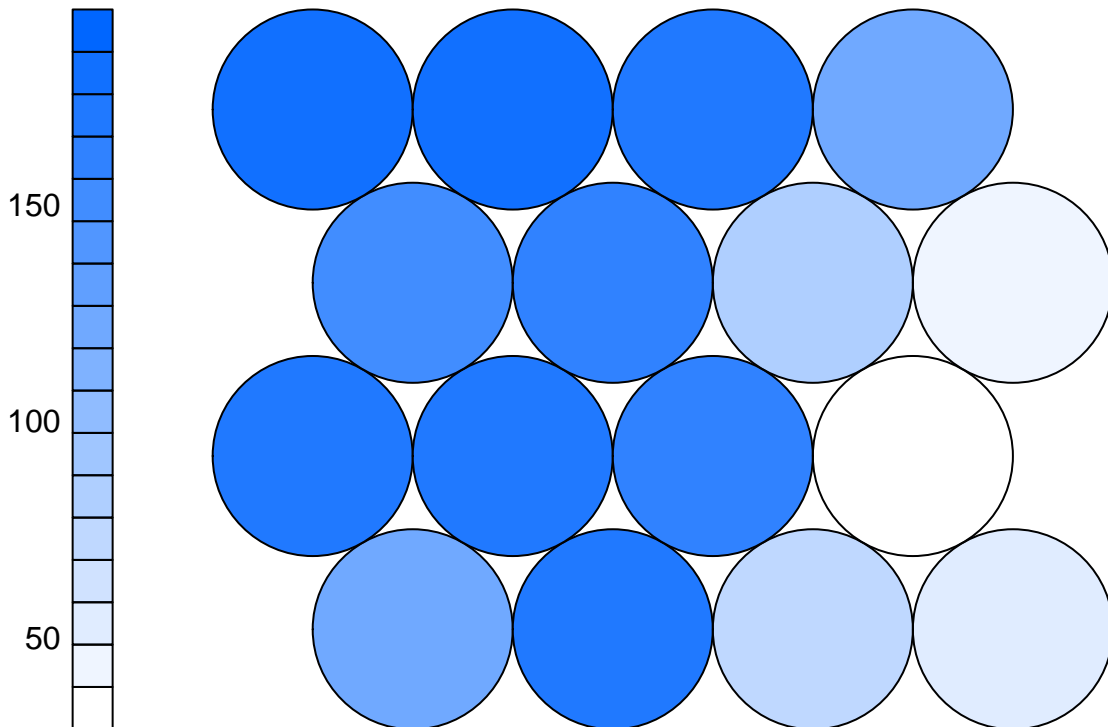


Codes plot

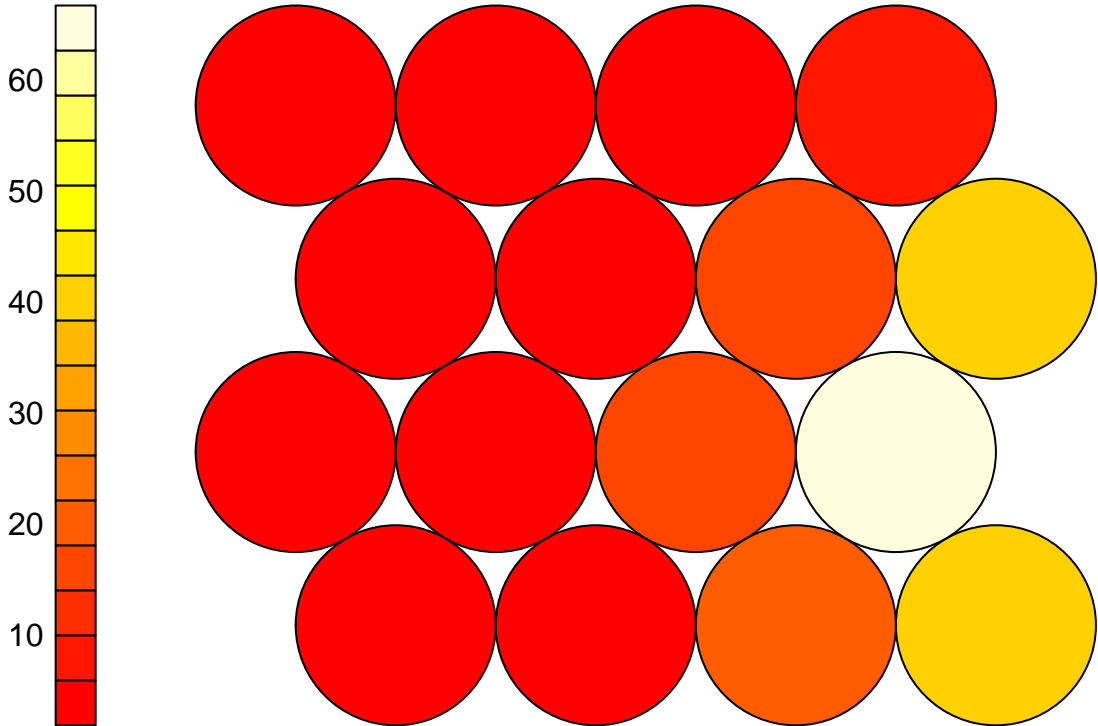


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■ B_ss	■ d_PB
■ E_ss	■ e_PB
■ G_ss	■ f_PB
■ I_ss	■ g_PB
■ T_ss	■ h_PB
■ S_ss	■ i_PB
■ X_ss	■ j_PB
■ o_ss	■ k_PB
■ o_ss.1	■ l_PB
■ o_ss.2	■ m_PB
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■ o_ss.5	■ p_PB
■ o_ss.6	■ polar
■ o_ss.7	■ ionic

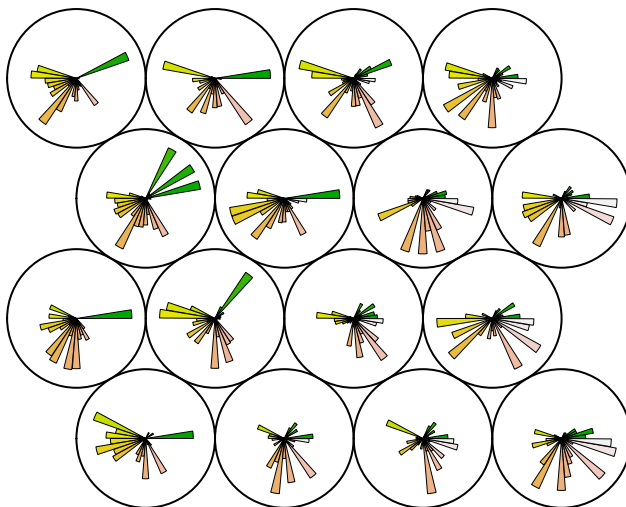
Carte de Kohonen n= 16



Neighbour distance plot

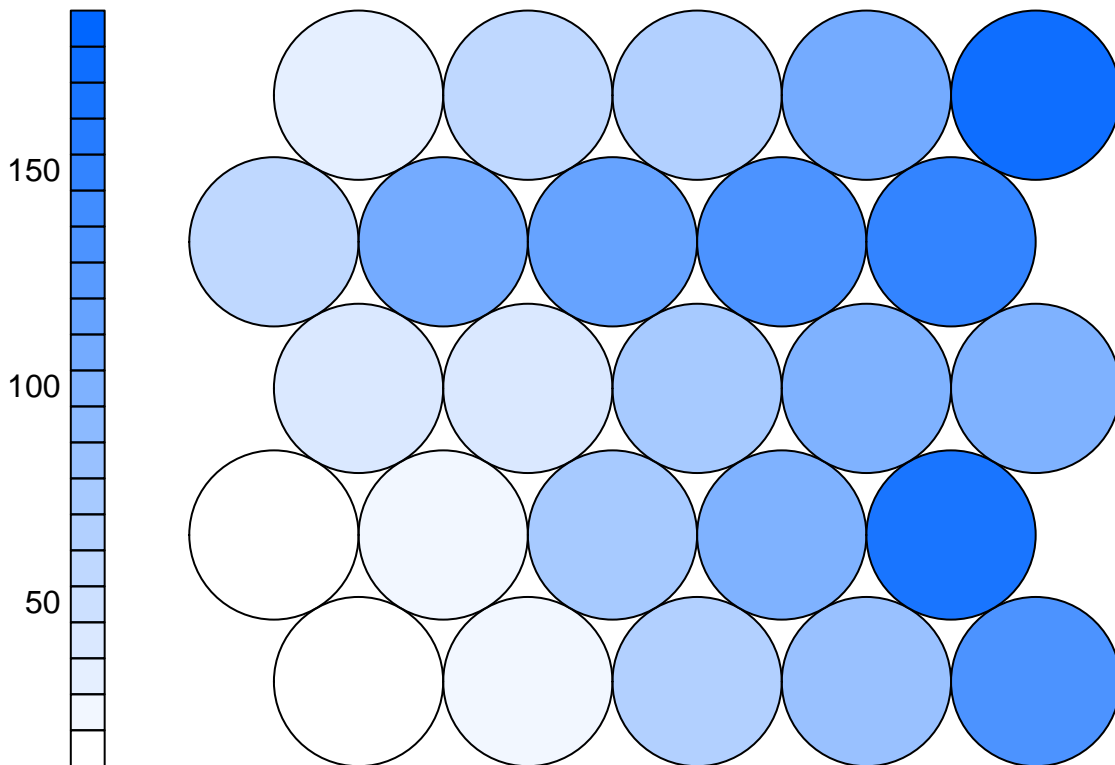


Codes plot

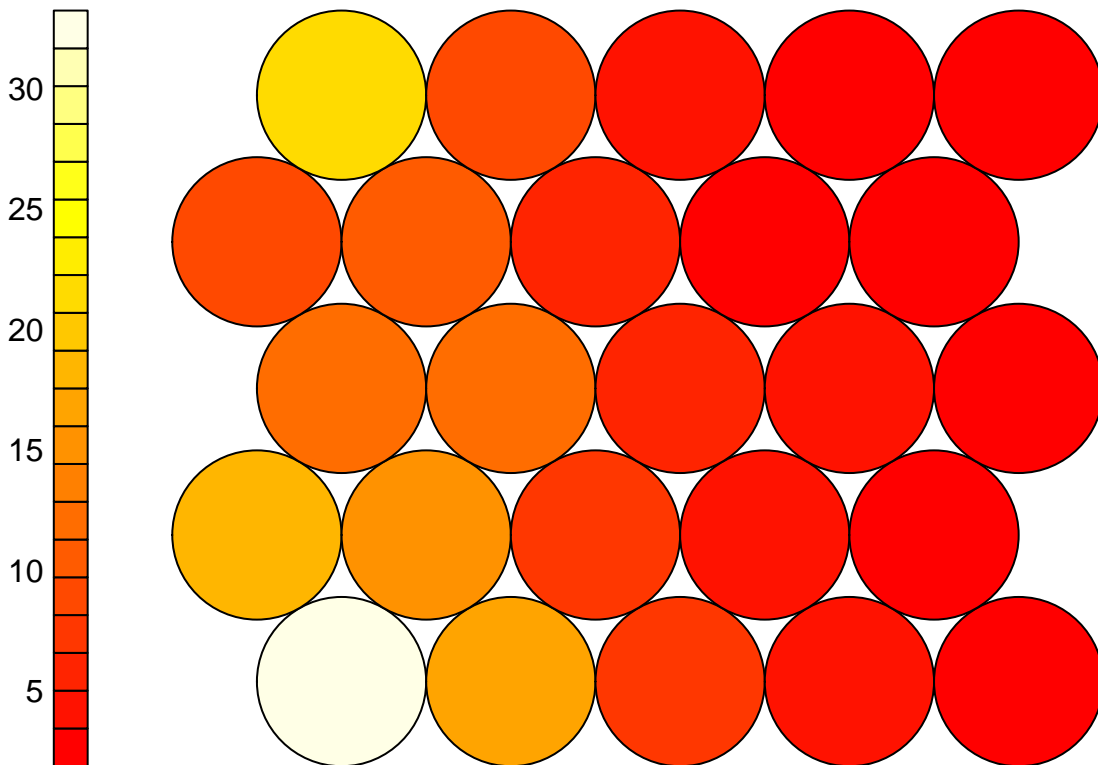


■ H_ss	■ c_PB
■ B_ss	■ d_PB
■ E_ss	■ e_PB
■ G_ss	■ f_PB
■ I_ss	■ g_PB
■ T_ss	■ h_PB
■ S_ss	■ i_PB
■ X._ss	■ j_PB
■ o_ss	■ k_PB
■ o_ss.1	■ l_PB
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■ o_ss.5	■ p_PB
■ o_ss.6	■ polar

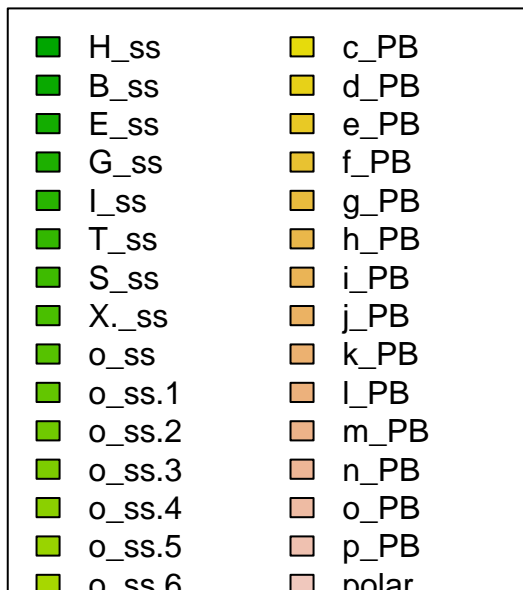
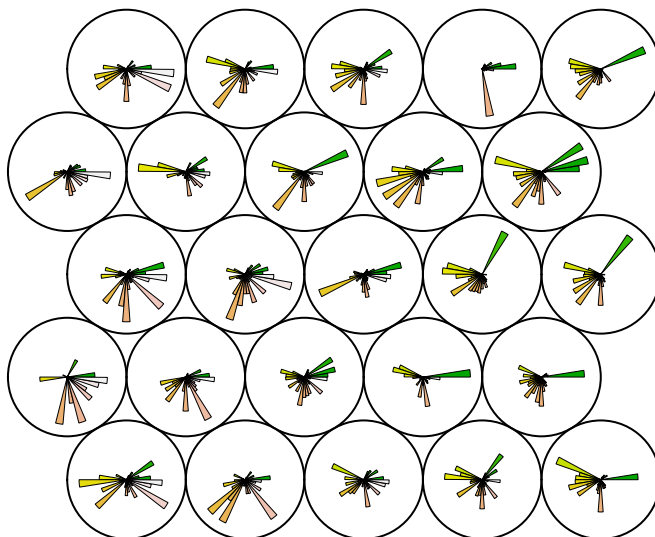
Carte de Kohonen n= 25



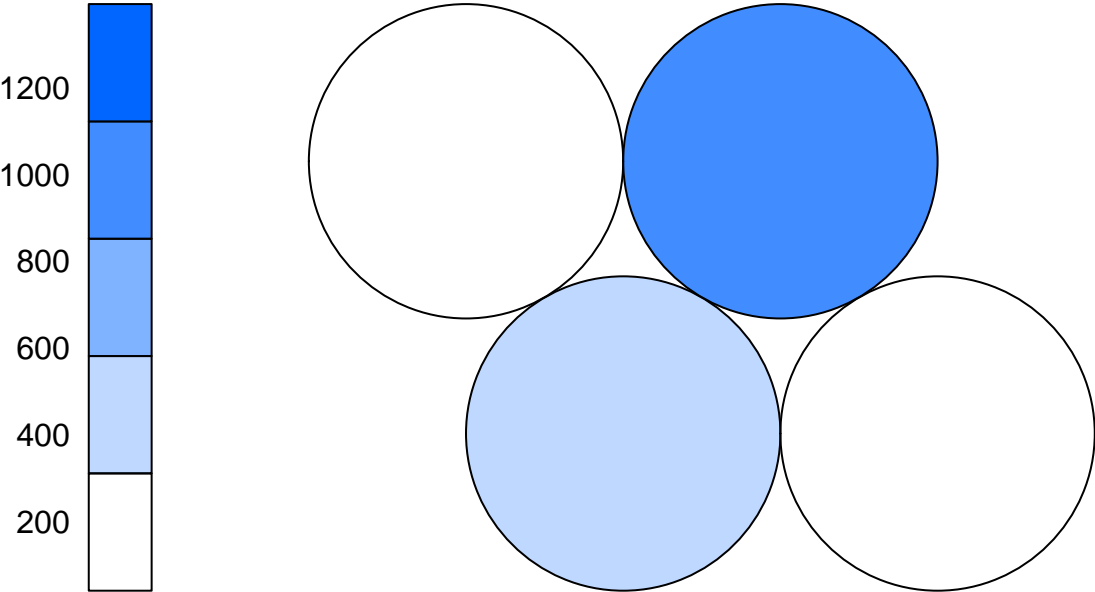
Neighbour distance plot



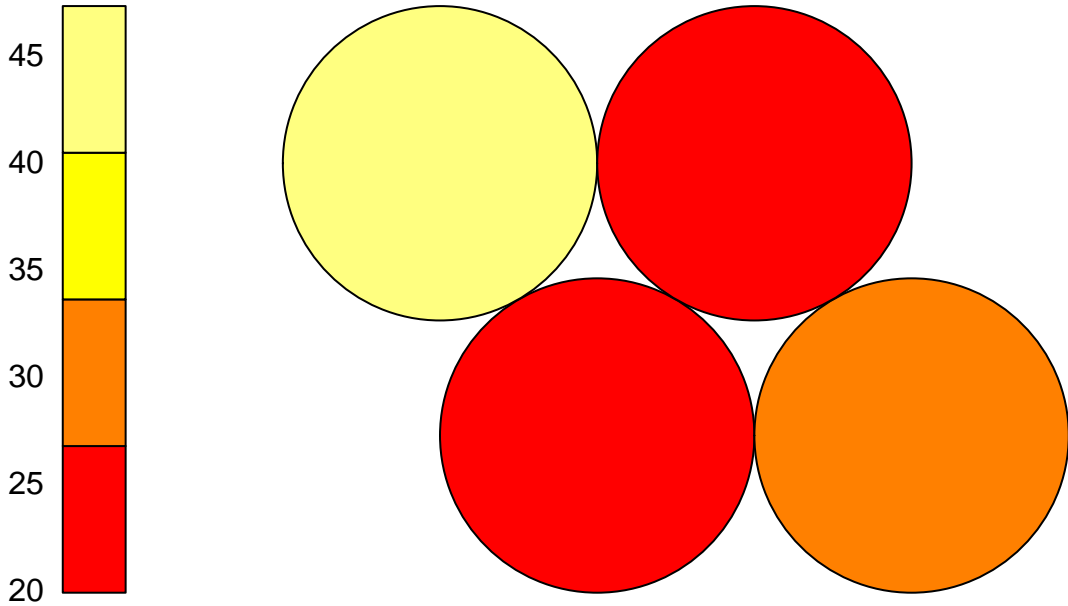
Codes plot



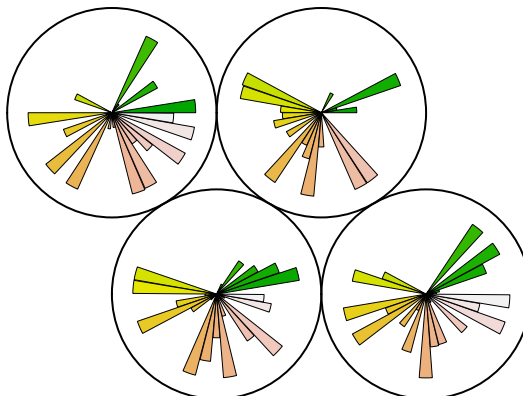
Carte de Kohonen toroidal n= 4



Neighbour distance plot

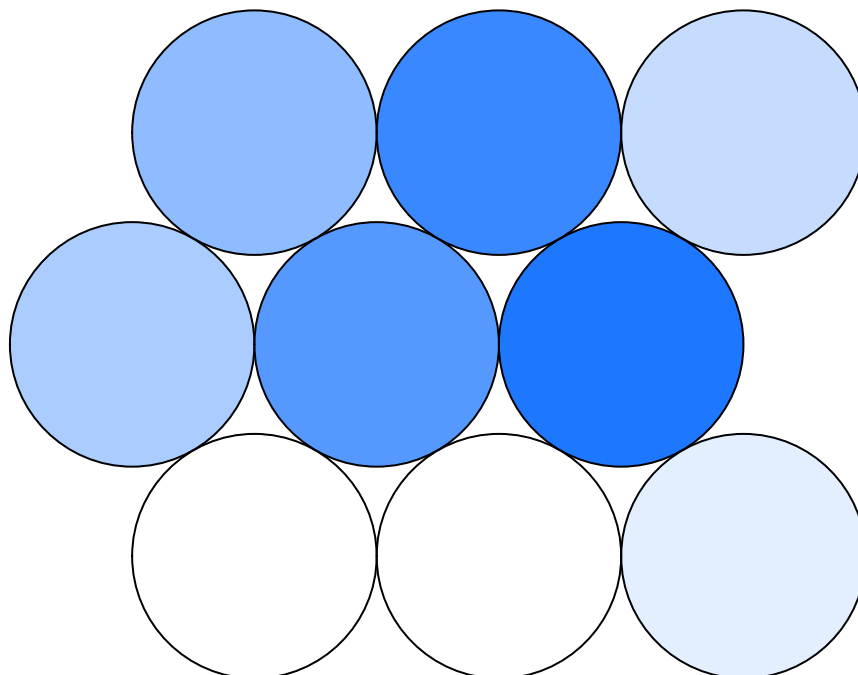
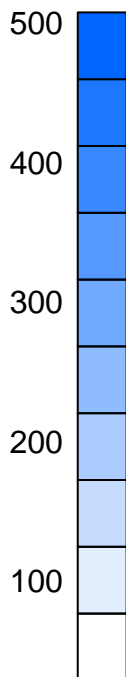


Codes plot

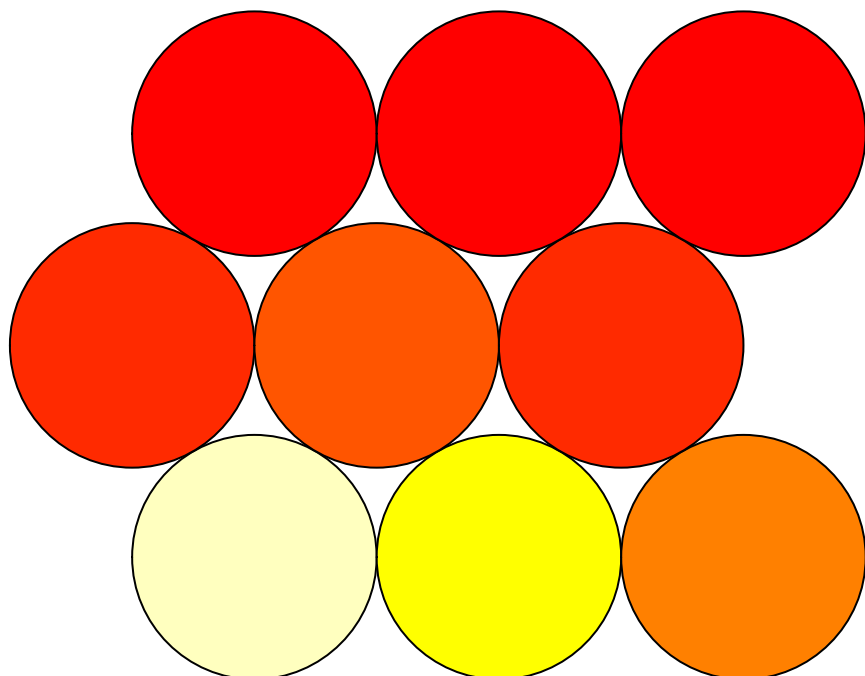
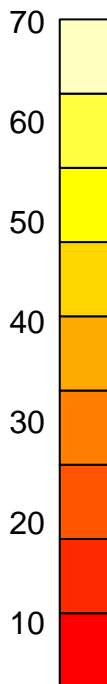


H_ss	c_PB
B_ss	d_PB
E_ss	e_PB
G_ss	f_PB
I_ss	g_PB
T_ss	h_PB
S_ss	i_PB
X._ss	j_PB
o_ss	k_PB
o_ss.1	l_PB
o_ss.2	m_PB
o_ss.3	n_PB
o_ss.4	o_PB
o_ss.5	p_PB
o_ss.6	polar
o_ss.7	ionic
ACC	hydrophobic

Carte de Kohonen toroidal n= 9



Neighbour distance plot

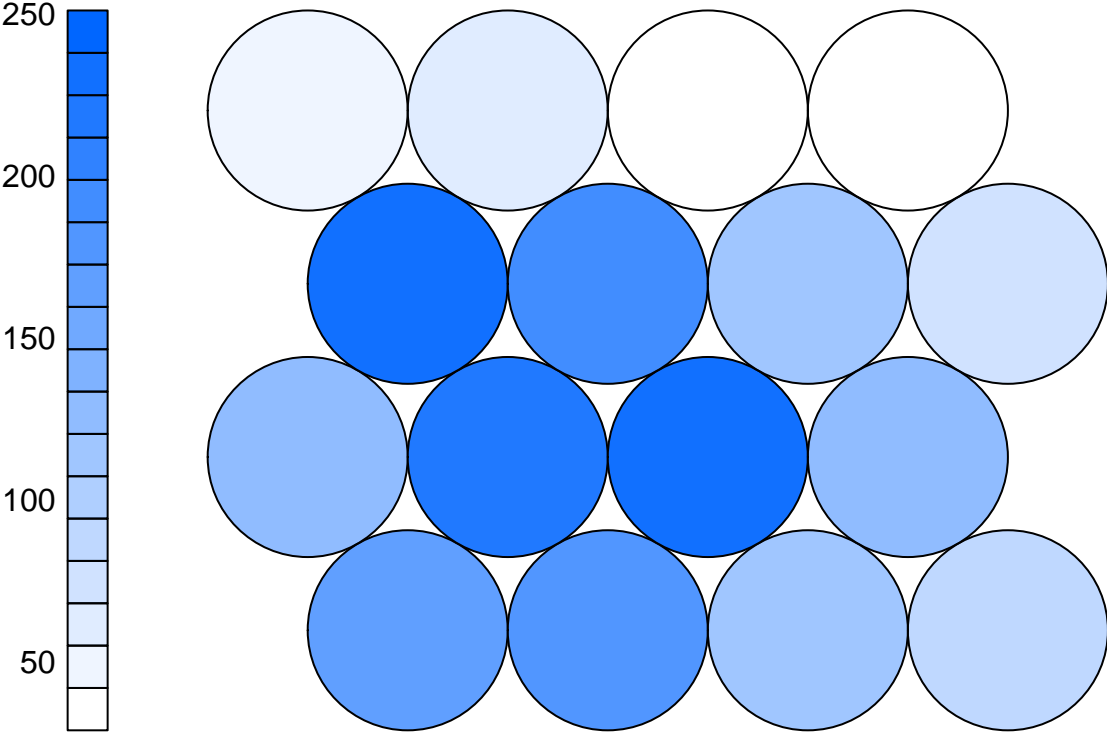


Codes plot

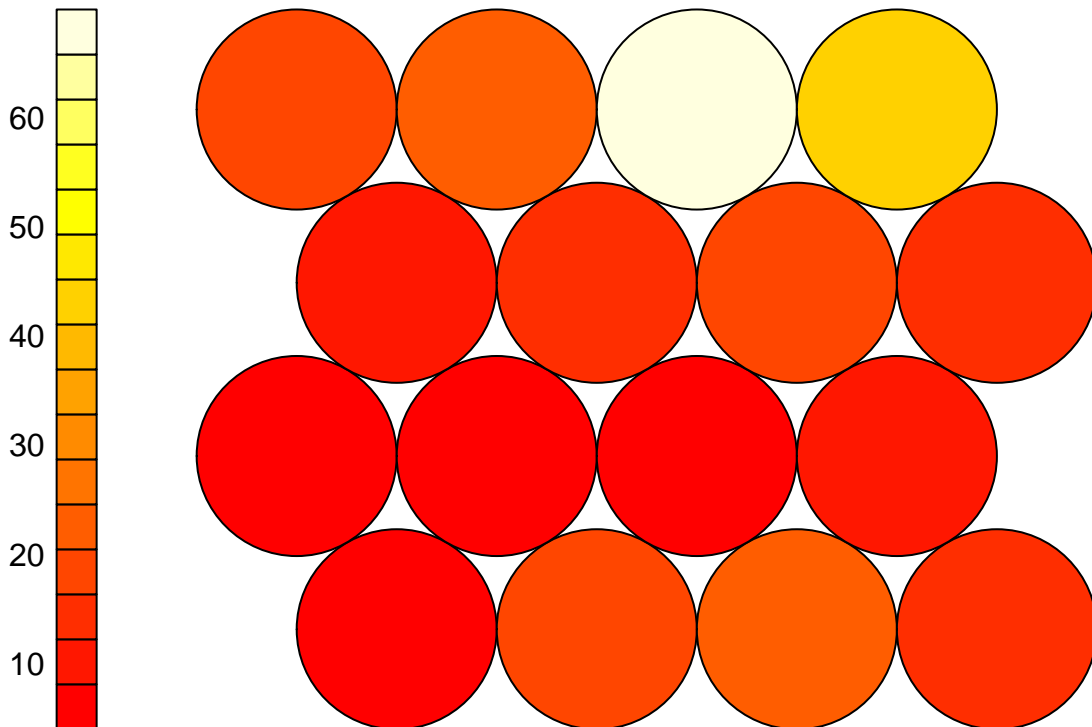


■ H_ss	■ c_PB
■ B_ss	■ d_PB
■ E_ss	■ e_PB
■ G_ss	■ f_PB
■ I_ss	■ g_PB
■ T_ss	■ h_PB
■ S_ss	■ i_PB
■ X_ss	■ j_PB
■ o_ss	■ k_PB
■ o_ss.1	■ l_PB
■ o_ss.2	■ m_PB
■ o_ss.3	■ n_PB
■ o_ss.4	■ o_PB
■ o_ss.5	■ p_PB
■ o_ss.6	■ polar
■ o_ss.7	■ ionic

Carte de Kohonen toroidal n= 16



Neighbour distance plot

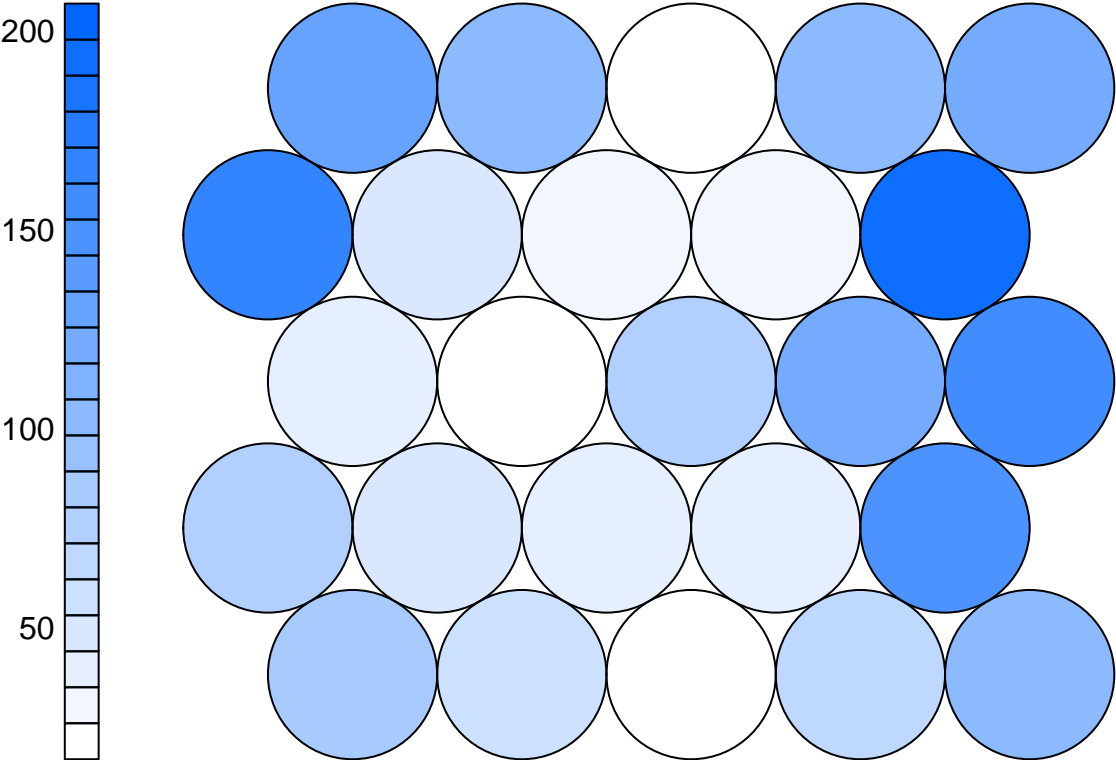


Codes plot

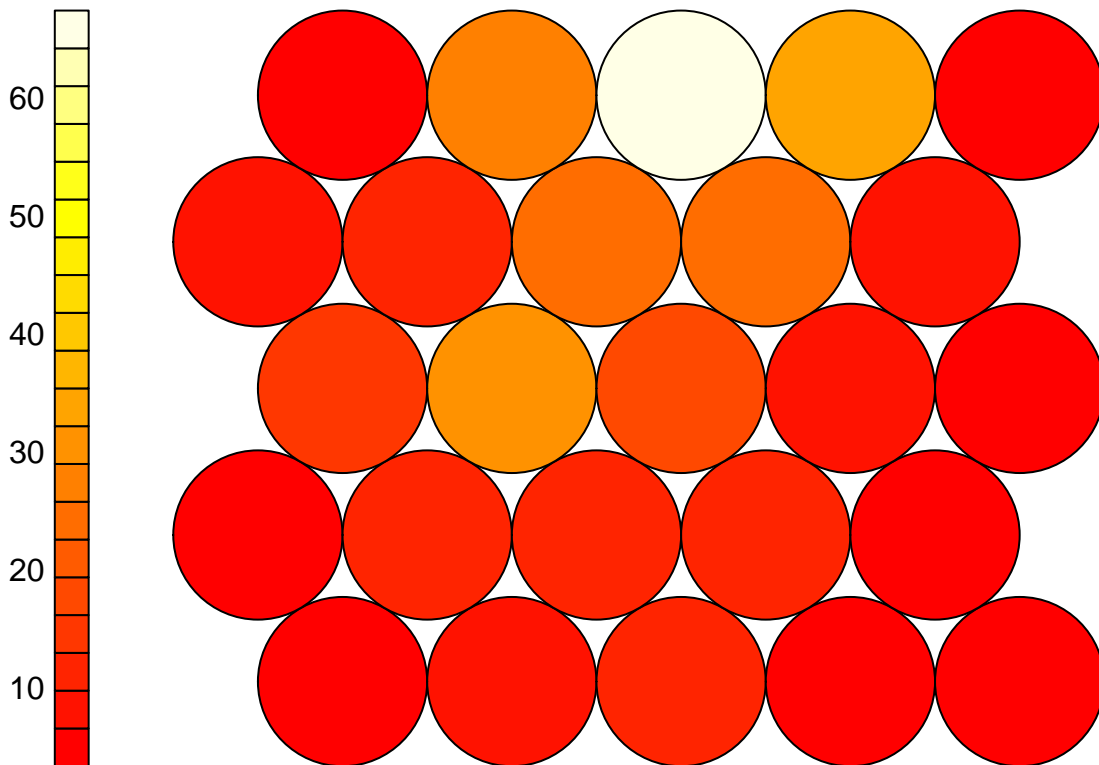


■ H_ss	■ c_PB
■ B_ss	■ d_PB
■ E_ss	■ e_PB
■ G_ss	■ f_PB
■ I_ss	■ g_PB
■ T_ss	■ h_PB
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■ X._ss	■ j_PB
■ o_ss	■ k_PB
■ o_ss.1	■ l_PB
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■ o_ss.5	■ p_PB
■ o_ss.6	■ polar

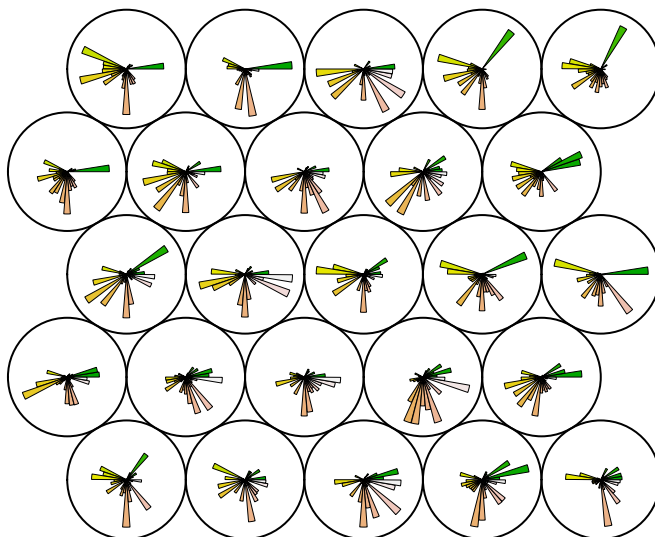
Carte de Kohonen toroidal n= 25



Neighbour distance plot



Codes plot



■ H_ss	■ c_PB
■ B_ss	■ d_PB
■ E_ss	■ e_PB
■ G_ss	■ f_PB
■ I_ss	■ g_PB
■ T_ss	■ h_PB
■ S_ss	■ i_PB
■ X_ss	■ j_PB
■ o_ss	■ k_PB
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■ o_ss.2	■ m_PB
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■ o_ss.5	■ p_PB
■ o_ss.6	■ polar