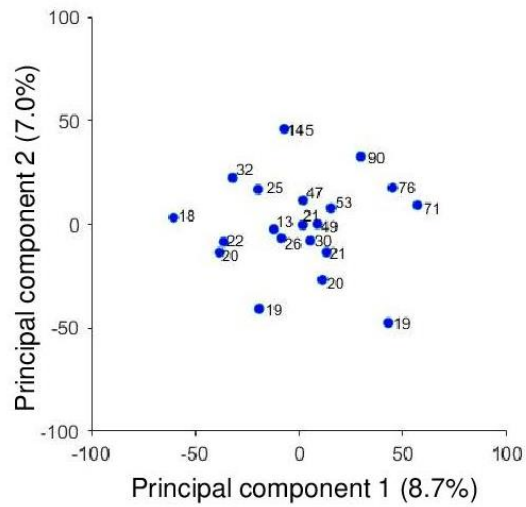
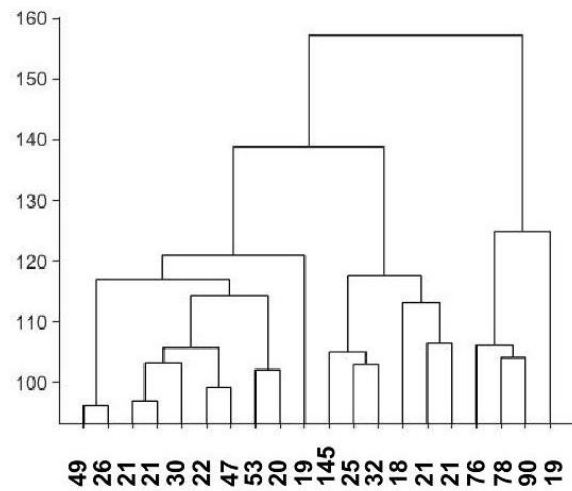


A**B**

Additional file 1: Figure S1. Unsupervised clustering of DNA methylation in sperm according to age of individual bulls (A) Principal component analysis (B) Dendrogram clustering based on DNA methylation in sperm from all bulls (applied method: Ward method with Euclidean distance).