Figure S1: Scatterplot of VSH for EB_MNR values for the 26 colonies used to estimate correlation between these traits. Red points are the colonies with (significantly) high VSH and the blue points with (significantly) low VSH values. The histograms represent the distribution, in number of colonies, of VSH and EB_MNR.
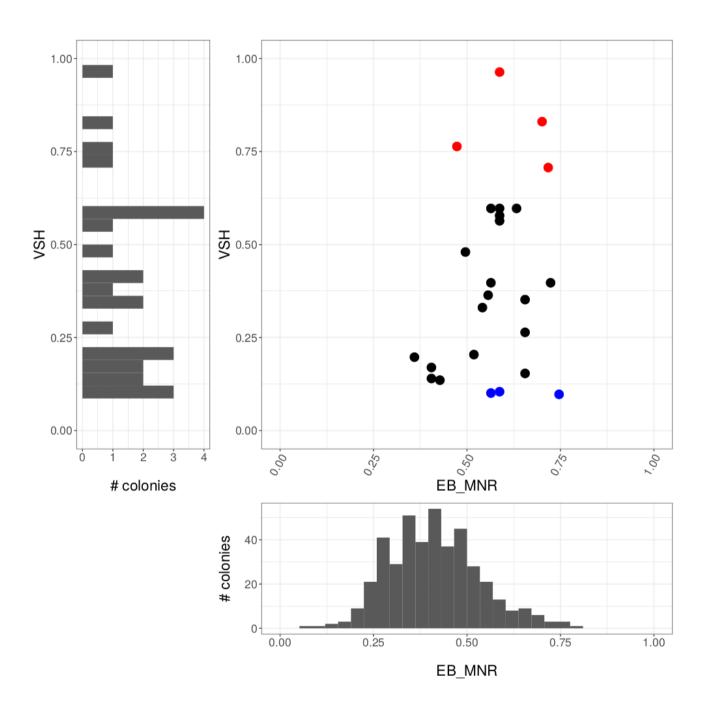
Table S1: Number of colonies in each of the different experiments (in bold) and number of colonies additionally contributing to other experiments. In square brackets, number of colonies used only in one experiment. In brackets and italic, number of apiaries on which colonies are placed. MNR: Mite Non Reproduction, HYG: Hygienic Behaviour and VSH: Varroa Sensitive Hygiene

	Empirical Bayes MNR	Variance MNR	Short-term repeatibility MNR	Long-term repeatibility MNR	Repeatibility HYG	VSH	Model MNR	Model HYG
Empirical Bayes MNR	**229** [0] *(14)*	35	31	55	125	25	229	136
Variance MNR	35	**39** [4] *(3)*	2	0	0	0	35	0
Short-term repeatibility MNR	31	2	**31** [0] *(NA)*	0	0	0	31	0
Long-term repeatibility MNR	55	0	0	**55** [0] *(9)*	50	9	55	53
Repeatibility HYG	125	0	0	50	**139** [0] *(9)*	12	127	139
VSH	25	0	0	9	12	**26** [1] *(1)*	25	12
Model MNR	229	35	31	55	127	25	**231** [0] *(14)*	138
Model HYG	136	0	0	55	139	12	138	**175** [25] *(9)*