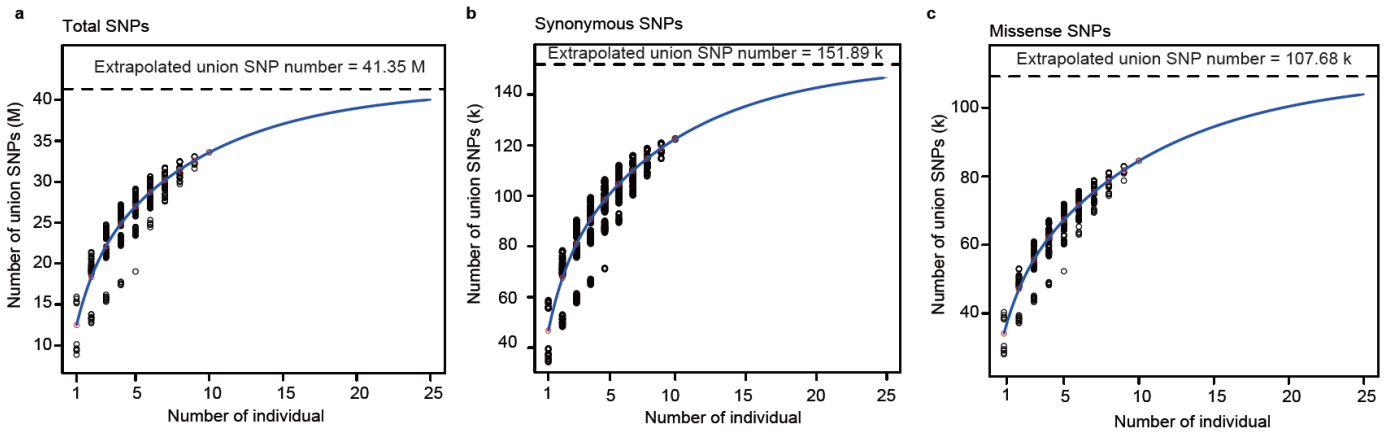

Supplemental Fig. S14. Increase in number of the union total (a), synonymous (b) and missense (c) SNPs with every additional breed. The number of the union SNPs was plotted as *y* axis values, and the number of *n* breeds was sequentially added was shown on the *x* axis. For each *n*, black circles represent the numbers of union SNPs for each of the 10! / [(10 - *n*)! × *n*!] breed combinations, whereas the red circles were the averages of such values. The continuous blue curve was the least-square fit of the red circles, the function of which was $F_p(n) = Y_0 + (Plateau\text{-}Y_0) \times PercentFast \times 0.01 \times (1\text{-}exp(\text{-}KFast \times n)) + (Plateau\text{-}Y_0) \times (100\text{-}PercentFast) \times 0.01 \times (1\text{-}exp(\text{-}KSlow \times n))$, where Plateau evaluates the number of pan SNPs when n→+∞. The extrapolated union number of SNP plateau was plotted as a black dashed line. The function was fitted with goodness-of-fit R square 1.000 (See **Supplemental Methods** for details). **(a)** Total SNPs. The estimated free parameters are Plateau = $4.14 \times 10^7 \pm 3.57 \times 10^5$, $Y_0 = 2.61 \times 10^6 \pm 1.17 \times 10^5$, PercentFast = 34.25 ± 0.46, KFast = 0.75 ± 0.02, KSlow = 0.12 ± 0.004. **(b)** Synonymous SNPs. The estimated free parameters are Plateau = $1.52 \times 10^5 \pm 1.40 \times 10^3$, $Y_0 = 1.15 \times 10^4 \pm 457$, PercentFast = 33.25 ± 0.42, KFast = 0.77 ± 0.02, KSlow = 0.12 ± 0.005. **(c)** missense SNPs. The estimated free parameters are Plateau = $1.09 \times 10^5 \pm 1.29 \times 10^3$, $Y_0 = 1.25 \times 10^4 \pm 349$, PercentFast = 28.29 ± 0.32, KFast = 0.78 ± 0.03, KSlow = 0.10 ± 0.004. The union SNPs of the sequenced ten pig breeds account for 81.25%, 80.61% and 77.44% of the union SNPs for total, synonymous and missense SNPs, respectively.