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2019-12-27

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## **Supplementary table legends**

**Table S1.** Distribution of recruited athletes according to their sports disciplines (M: Male, F: Female)

**Table S2.** List of metabolites identified by Meta-analysis in current and previously published cohort in association with endurance sports

**Table S3.** List of common variant loci influence metabolites (mQTLs) in elite athletes

**Table S4.** List of significant mGWAS hits at p value <  $10^{-6}$