<https://www.nature.com/articles/ng.3972#Sec32>

methods:

arils 子壳

sample:

genomic analysis: Musang King fruit stalk

transcriptomic analysis: 3 Musang King fruit arils, 3 Monthong fruit arils, 3 Puang Manee fruit arils, 3 vegetative parts (stem, root, and leaf)

validation studies: durian fruits used for (MS profiling of VSCs, qRT–PCR of MGL, and measurement of ethylene)

1. isolated three trees of ages 28, 45,and 45 years
2. 2 durian fruits were collected per tree in each ripening stage (1 month post-anthesis, 2 months post-anthesis, 2.5 months post-anthesis, and post-abscission)
3. In each ripening stage, 6 arils from 6 durian fruits for qRT–PCR and MS and profiled ethylene for 6 durian whole fruits。

*MGL:*  (methionine γ-lyase) 蛋氨酸γ裂合酶

VSCs : volatile sulfur compounds  挥发性硫化物

GC-MS: headspace gas chromatography coupled with mass spectrometry 气层质谱连用仪