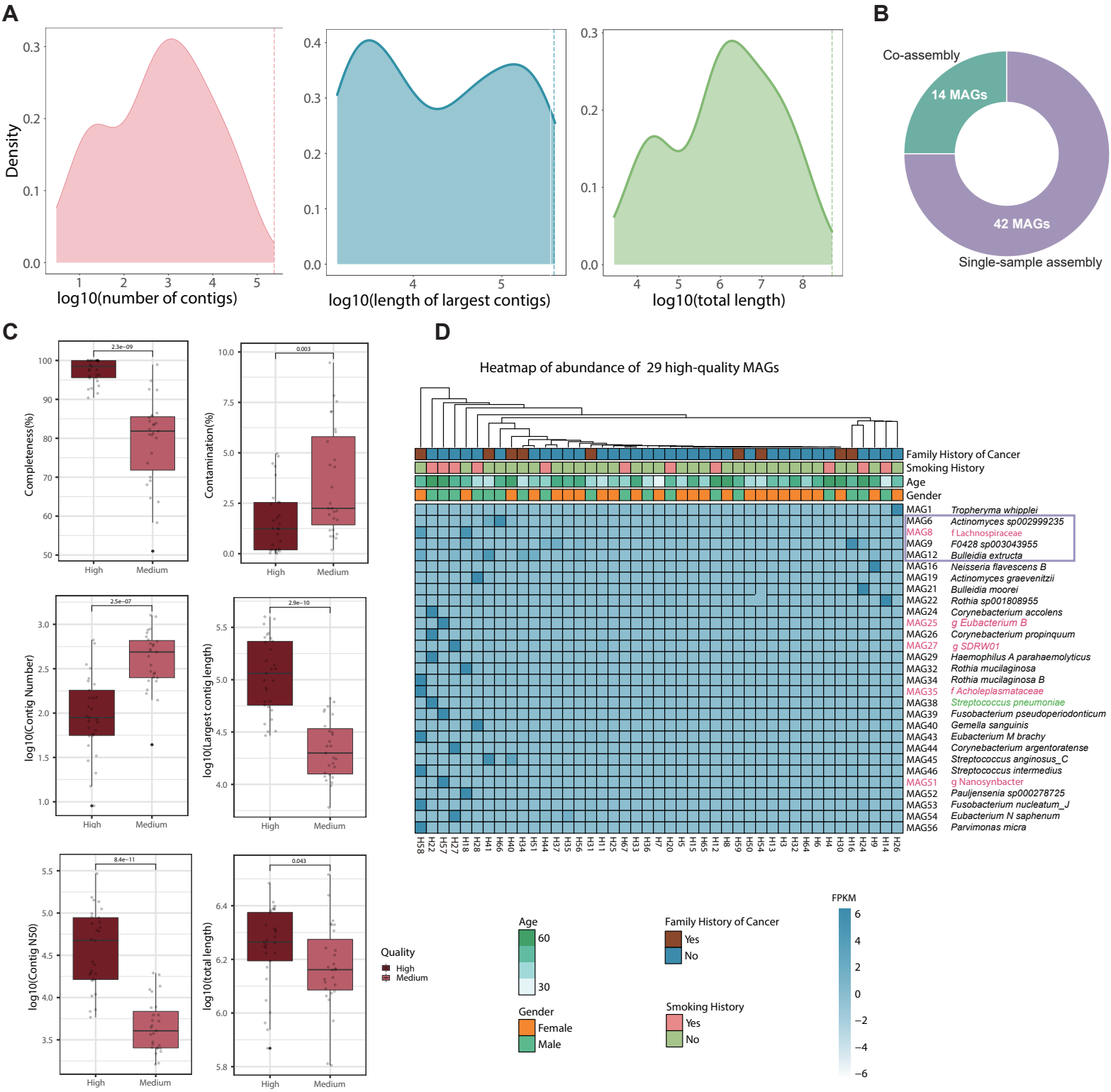
A
Density
log10(number of contigs)
log10(length of largest contigs)
log10(total length)
B
Co-assembly
14 MAGs
42 MAGs
Single-sample assembly
C
Completeness(%)
Contamination(%)
log10(Contig Number)
log10(Largest contig length)
log10(Contig N50)
log10(total length)
High
Medium
2.3e−09
0.003
2.5e−07
2.9e−10
8.4e−11
0.043
Quality
High
Medium
D
Heatmap of abundance of 29 high-quality MAGs
Family History of Cancer
Smoking History
Age
Gender
MAG1 Tropheryma whipplei
MAG6 Actinomyces sp002999235
MAG8 f Lachnospiraceae
MAG9 F0428 sp003043955
MAG12 Bulleidia extructa
MAG16 Neisseria flavescens B
MAG19 Actinomyces graevenitzii
MAG21 Bulleidia moorei
MAG22 Rothia sp001808955
MAG24 Corynebacterium accolens
MAG25 g Eubacterium B
MAG26 Corynebacterium propinquum
MAG27 g SDRW01
MAG29 Haemophilus A parahaemolyticus
MAG32 Rothia mucilaginosa
MAG34 Rothia mucilaginosa B
MAG35 f Acholeplasmataceae
MAG38 Streptococcus pneumoniae
MAG39 Fusobacterium pseudoperiodonticum
MAG40 Gemella sanguinis
MAG43 Eubacterium M brachy
MAG44 Corynebacterium argentoratense
MAG45 Streptococcus anginosus_C
MAG46 Streptococcus intermedius
MAG51 g Nanosynbacter
MAG52 Paulijensenia sp000278725
MAG53 Fusobacterium nucleatum_J
MAG54 Eubacterium N saphenum
MAG56 Parvimonas micra
H58 H22 H57 H27 H18 H28 H41 H66 H40 H34 H51 H44 H37 H35 H56 H31 H11 H25 H67 H33 H36 H7 H20 H5 H15 H65 H12 H8 H59 H50 H54 H13 H3 H52 H64 H6 H4 H30 H16 H24 H9 H14 H26
Age
60
30
Gender
Female
Male
Family History of Cancer
Yes
No
Smoking History
Yes
No
FPKM
6
4
2
0
−2
−4
−6