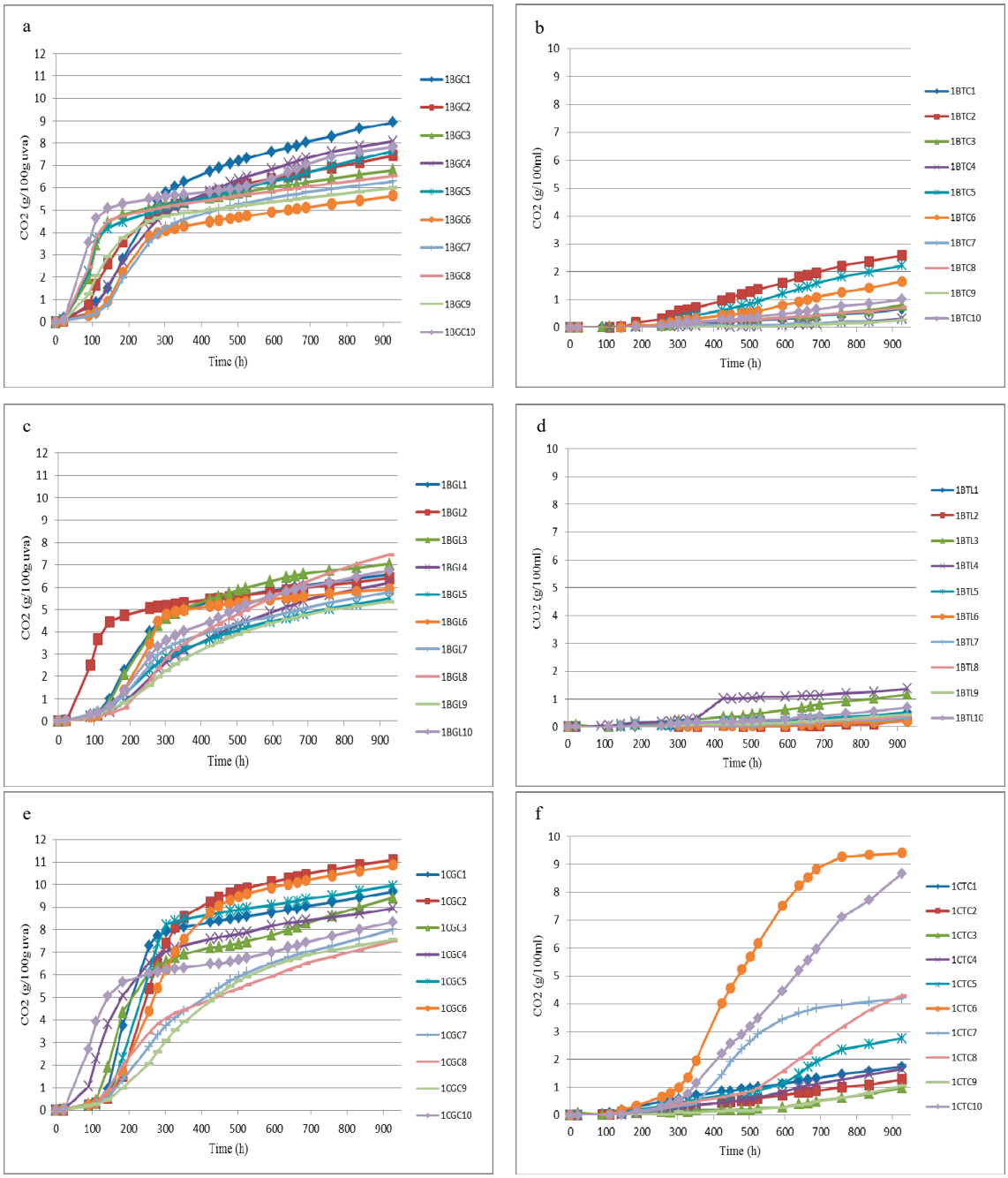
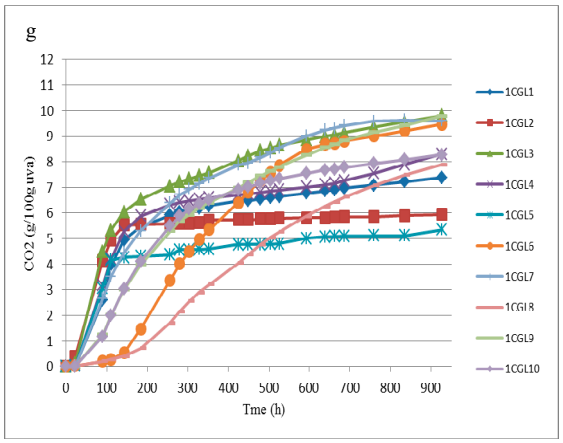
Figure S1. Fermentation kinetics of the 10 samples obtained at Harvest 1 (H1) from a) grapes from plants 1-10 of vine row 1 in the young vineyard (YV), b) bark from plants 1-10 of vine row 1 in the young vineyard (YV), c) grapes from plants 11-20 of vine row 2 in the young vineyard (YV), d) bark from plants 11-20 of vine row 2 in the young vineyard (YV), e) grapes from plants 1-10 of vine row 1 in the old vineyard (OV), f) bark from plants 1-10 of vine row 1 in the old vineyard (OV), g) grapes from plants 11-20 of vine row 2 in the old vineyard (OV), h) bark from plants 11-20 of vine row 2 in the old vineyard (OV).




g
CO2 (g/100g uva)
Time (h)
1CGL1
1CGL2
1CGL3
1CGL4
1CGL5
1CGL6
1CGL7
1CGL8
1CGL9
1CGL10

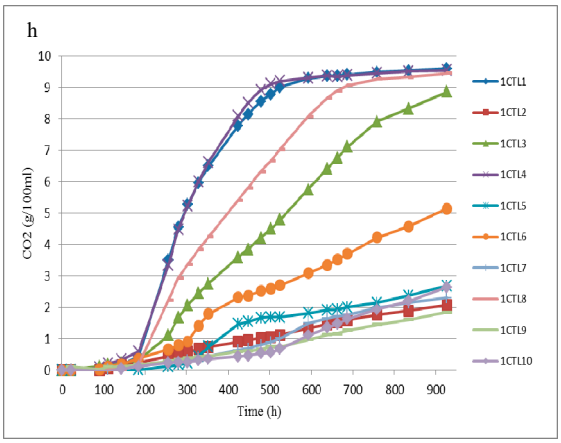
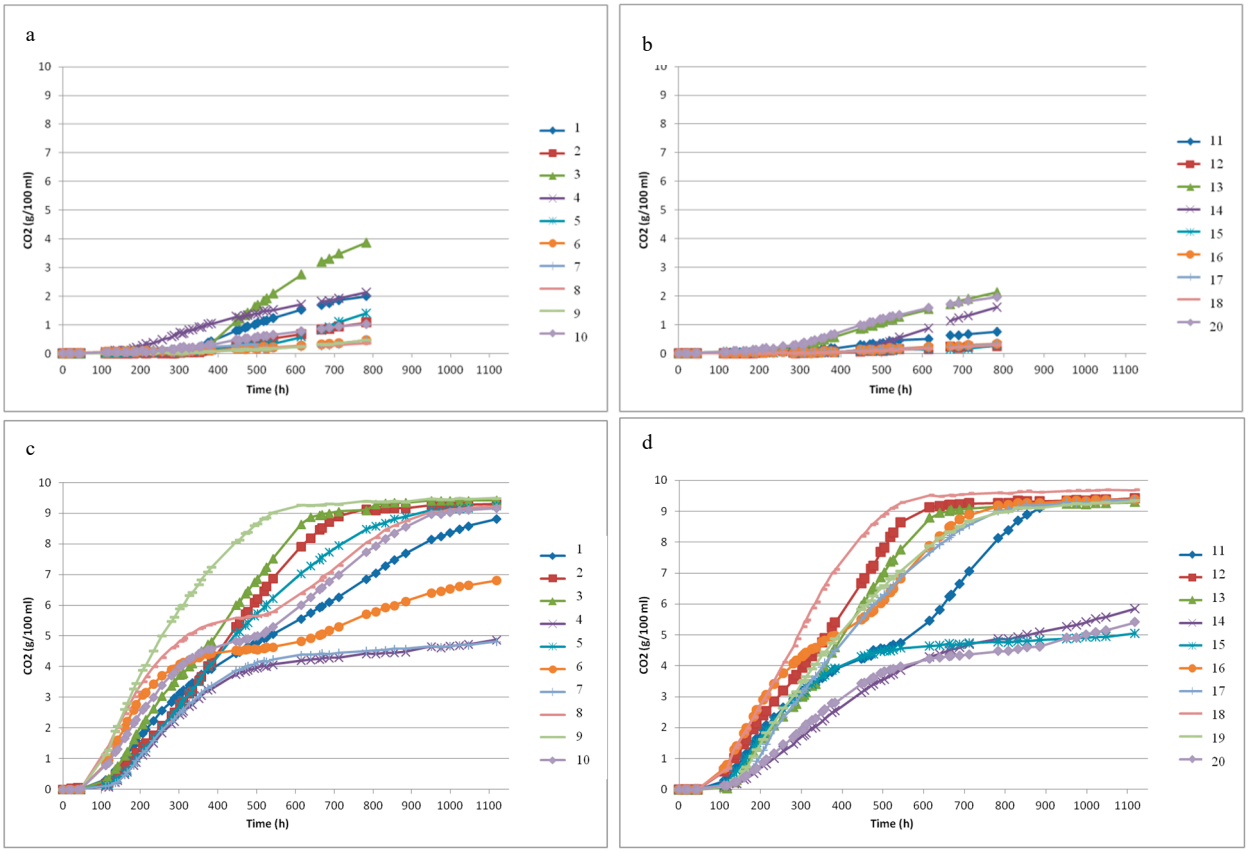
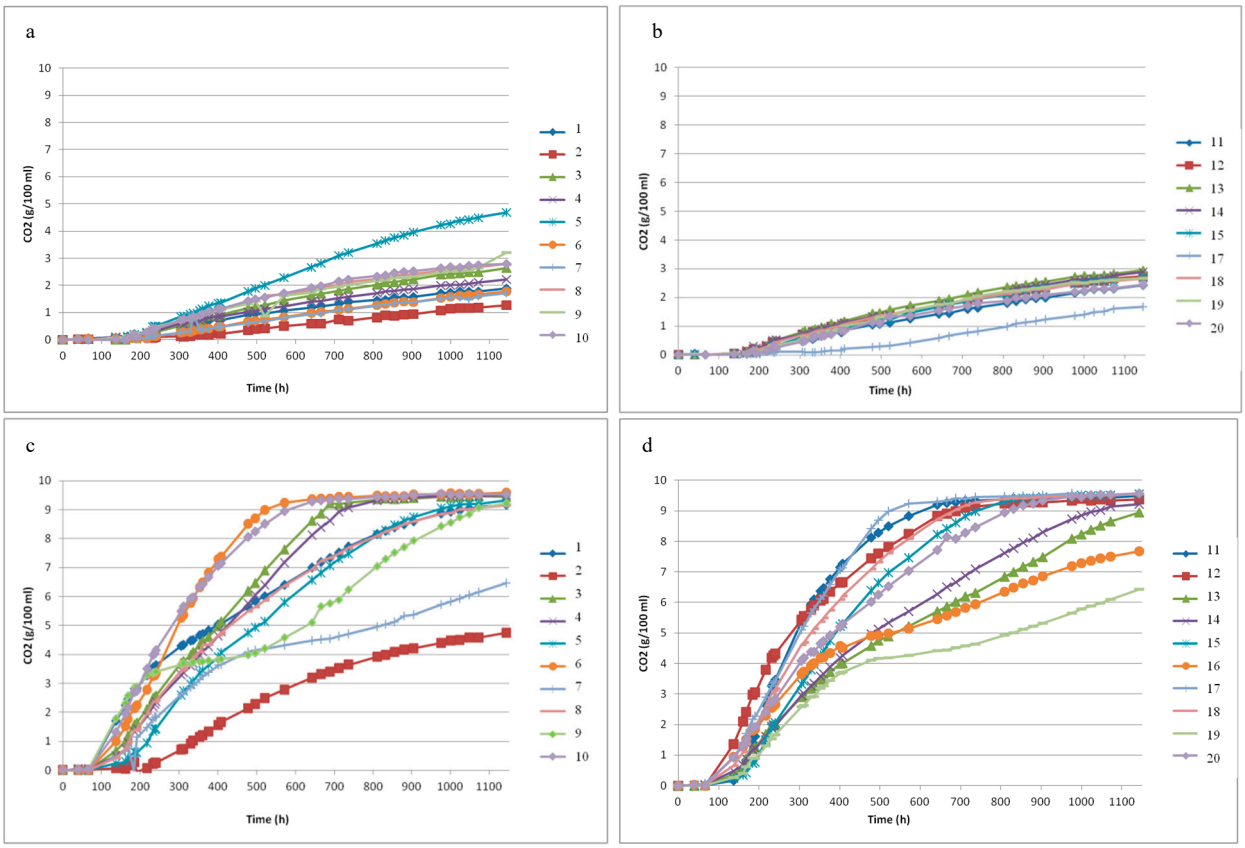

h
CO2 (g/100ml)
Time (h)
1CTL1
1CTL2
1CTL3
1CTL4
1CTL5
1CTL6
1CTL7
1CTL8
1CTL9
1CTL10

Figure S2. A. Fermentation kinetics of the 10 samples obtained at Spring 1 (S 1) from a) bark from plants 1-10 of vine row 1 in the young vineyard (YV), b) bark from plants 11-20 of vine row 2 in the young vineyard (YV), c) bark from plants 1-10 of vine row 1 in the old vineyard (OV), d) bark from plants 11-20 of vine row 2 in the old vineyard (OV). **B.** Fermentation kinetics of the 10 samples obtained at Harvest 2 (H 2) from a) bark from plants 1-10 of vine row 1 in the young vineyard (YV), b) bark from plants 11-20 of vine row 2 in the young vineyard (YV), c) bark from plants 1-10 of vine row 1 in the old vineyard (OV), d) bark from plants 11-20 of vine row 2 in the old vineyard (OV). **C.** Fermentation kinetics of the 10 samples obtained at Early Spring 2 (ES 2) from a) bark from plants 1-10 of vine row 1 in the young vineyard (YV), b) bark from plants 11-20 of vine row 2 in the young vineyard (YV), c) bark from plants 21-30 of vine row 3 in the young vineyard (YV), d) bark from plants 1-10 of vine row 1 in the old vineyard (OV), e) bark from plants 11-20 of vine row 2 in the old vineyard (OV), f) bark from plants 21-30 of vine row 3 in the old vineyard (OV). **D.** Fermentation kinetics of the 10 samples obtained at Late Spring 2 (LS 2) from a) bark from plants 1-10 of vine row 1 in the young vineyard (YV), b) bark from plants 11-20 of vine row 2 in the young vineyard (YV), c) bark from plants 21-30 of vine row 3 in the young vineyard (YV), d) bark from plants 1-10 of vine row 1 in the old vineyard (OV), e) bark from plants 11-20 of vine row 2 in the old vineyard (OV), f) bark from plants 21-30 of vine row 3 in the old vineyard (OV). **E.** Fermentation kinetics of the 10 samples obtained at Harvest 3 (H 3) from a) bark from plants 1-10 of vine row 1 in the young vineyard (YV), b) bark from plants 11-20 of vine row 2 in the young vineyard (YV), c) bark from plants 21-30 of vine row 3 in the young vineyard (YV), d) bark from plants 1-10 of vine row 1 in the old vineyard (OV), e) bark from plants 11-20 of vine row 2 in the old vineyard (OV), f) bark from plants 21-30 of vine row 3 in the old vineyard (OV).

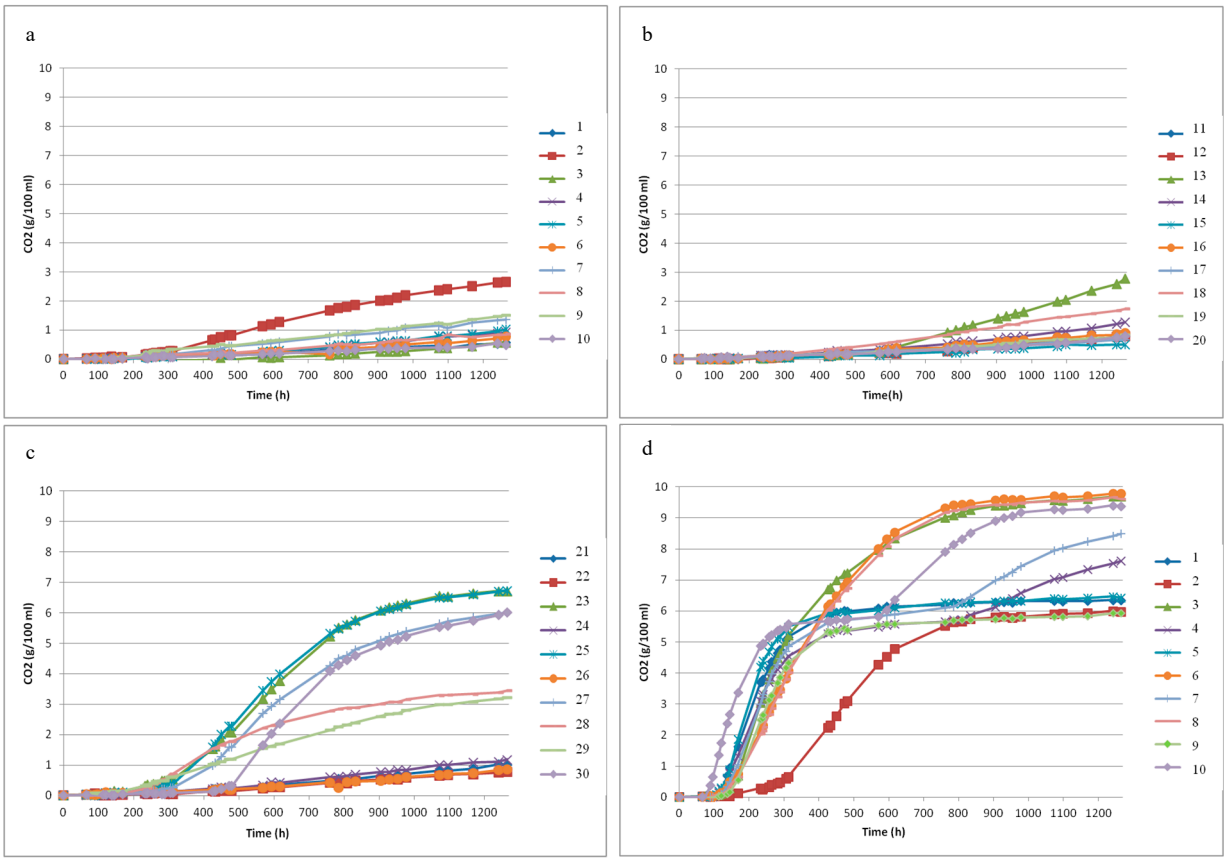
A.

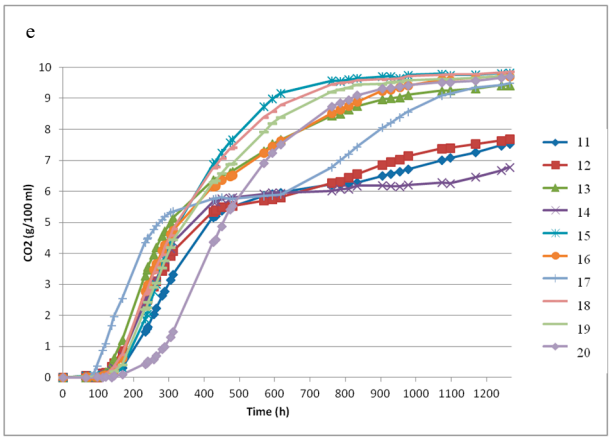


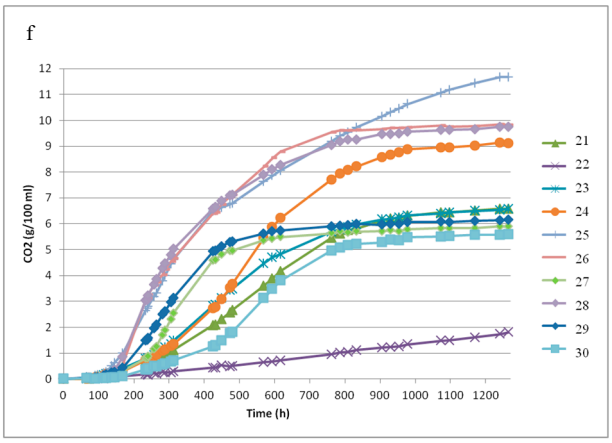
B.


a
b
c
d
CO2 (g/100 ml)
Time (h)
0 100 200 300 400 500 600 700 800 900 1000 1100
0 1 2 3 4 5 6 7 8 9 10
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20

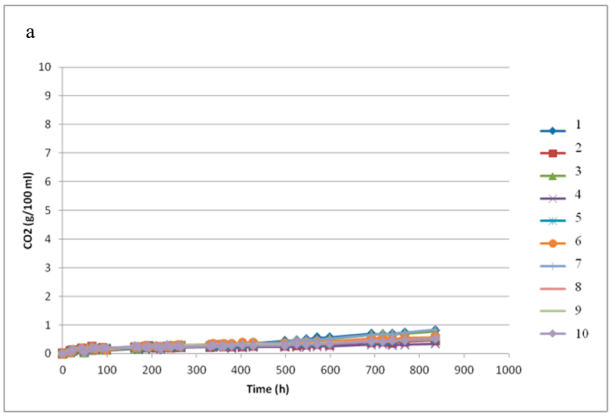
C.

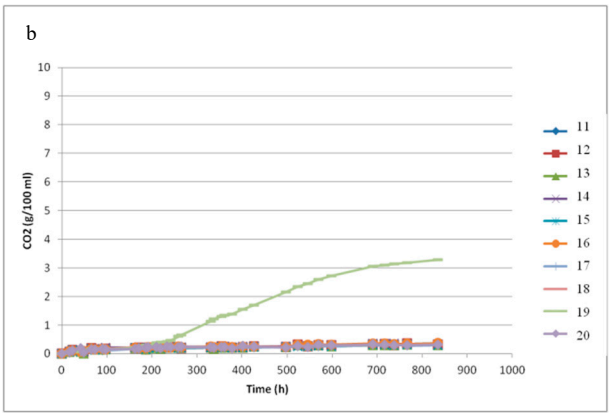

a
b
c
d
CO2 (g/100 ml)
Time (h)
Time(h)
0 100 200 300 400 500 600 700 800 900 1000 1100 1200
0 1 2 3 4 5 6 7 8 9 10
1 2 3 4 5 6 7 8 9 10
11 12 13 14 15 16 17 18 19 20
21 22 23 24 25 26 27 28 29 30

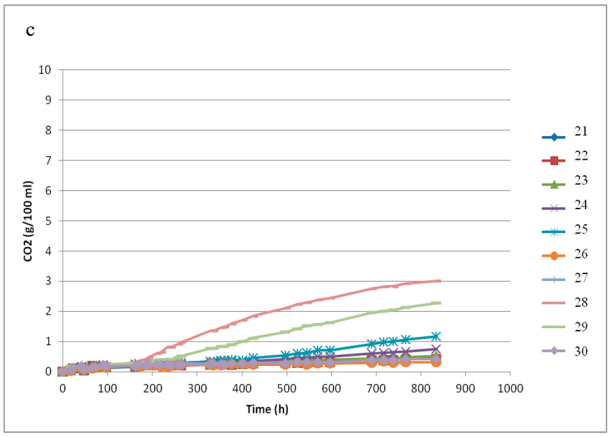

e
CO2 (g/100 ml)
Time (h)
11
12
13
14
15
16
17
18
19
20

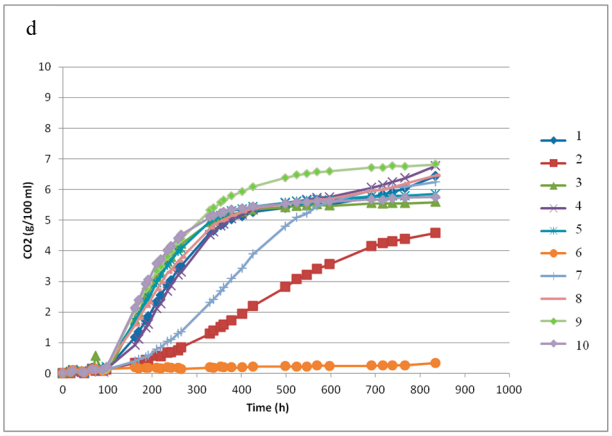

f
CO2 (g/100 ml)
Time (h)
21
22
23
24
25
26
27
28
29
30

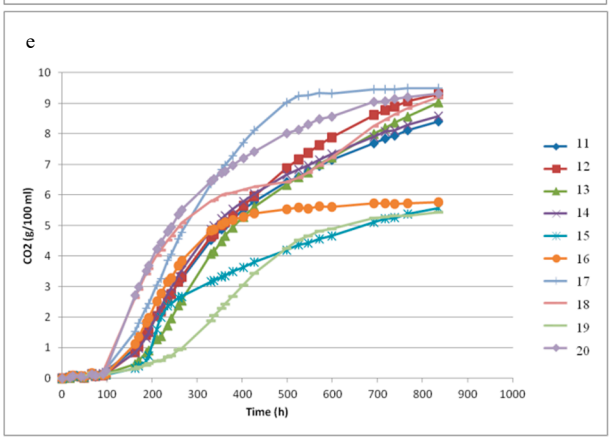
D.

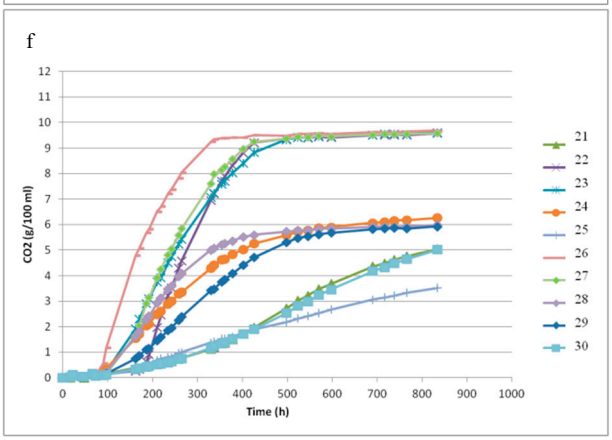

a
CO2 (g/100 ml)
Time (h)
1
2
3
4
5
6
7
8
9
10


b
CO2 (g/100 ml)
Time (h)
11
12
13
14
15
16
17
18
19
20


c
CO2 (g/100 ml)
Time (h)
21
22
23
24
25
26
27
28
29
30


d
CO2 (g/100 ml)
Time (h)
1
2
3
4
5
6
7
8
9
10


e
CO2 (g/100 ml)
Time (h)
11
12
13
14
15
16
17
18
19
20


f
CO2 (g/100 ml)
Time (h)
21
22
23
24
25
26
27
28
29
30

E.

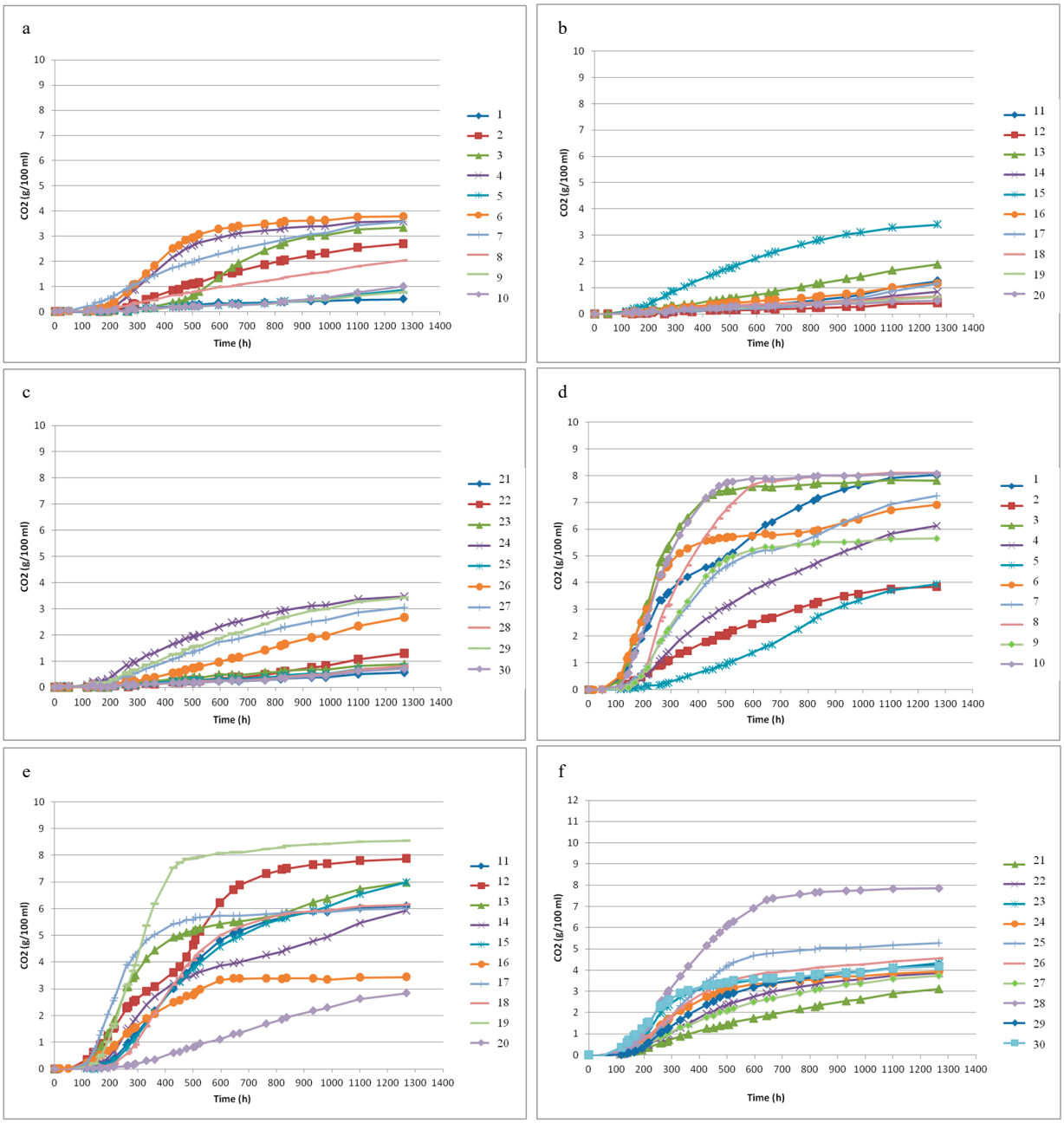
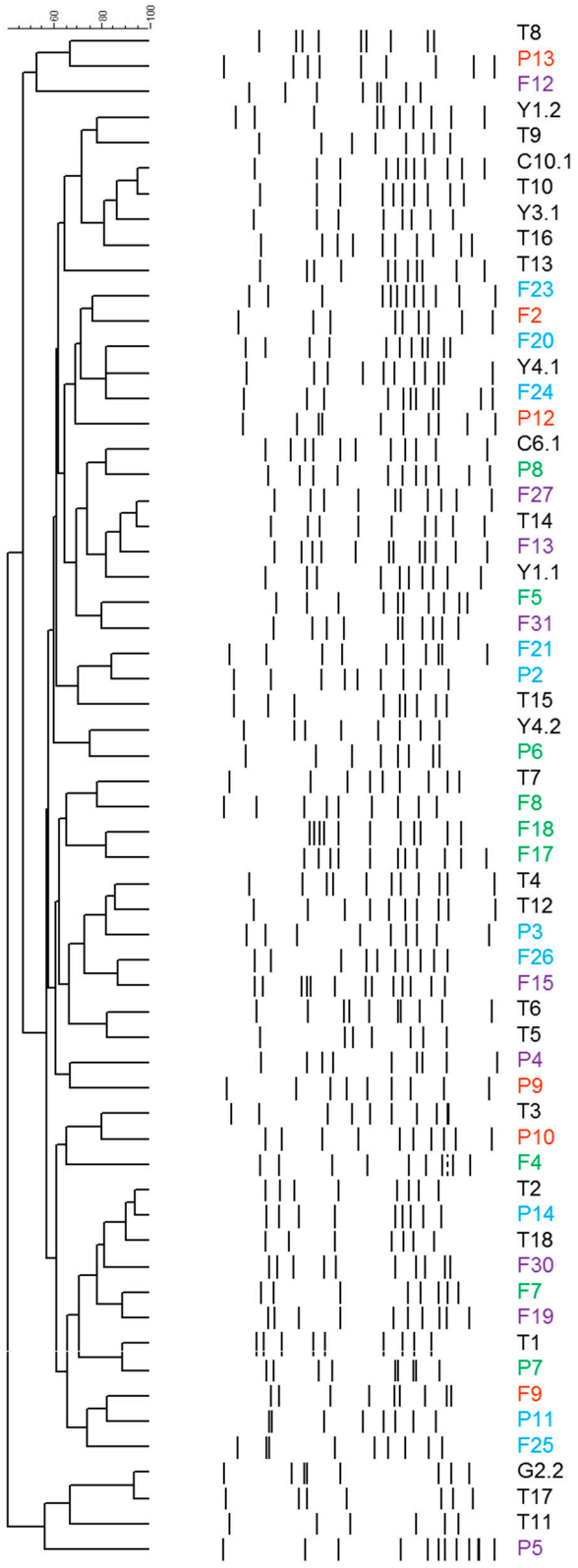

a
CO2 (g/100 ml)
Time (h)
1
2
3
4
5
6
7
8
9
10
b
CO2 (g/100 ml)
Time (h)
11
12
13
14
15
16
17
18
19
20
c
CO2 (g/100 ml)
Time (h)
21
22
23
24
25
26
27
28
29
30
d
CO2 (g/100 ml)
Time (h)
1
2
3
4
5
6
7
8
9
10
e
CO2 (g/100 ml)
Time (h)
11
12
13
14
15
16
17
18
19
20
f
CO2 (g/100 ml)
Time (h)
21
22
23
24
25
26
27
28
29
30

Figure S3. Dendrogram representing the genetic relationships among the vineyard strains.



Y, C and T indicate isolates from vine shoots of the old vineyard (OV); G isolates from grape of old vineyard; F isolates from vinification at sampling time H2 and P isolates from vinification at sampling time H3.