

**Additional file 8. Pectin enzymatic profiling results.**

**S8.A Sum up of significant differences between mealy and non-mealy fruits for each oligouronide during the complete apple fruit cycle according to Kruskal-Wallis tests.**

The oligouronides were identified from MALDI-TOF MS spectra after pectin-lyase hydrolysis of cell wall preparations. Oligouronides nomenclature is described in the materials and methods. Colors refer to significant differences ( $p\text{-value} < 0.05$ ) between mealy and non-mealy hybrids: dark grey is for a higher abundance in mealy fruits, light grey: a higher abundance in non-mealy fruits.

**S8.B Bar charts of abundance of each oligouronides for mealy (M40, M74) and non-mealy (M49, M74) hybrids at the four fruit developmental stages** obtained from MALDI-TOF MS spectra after pectin-lyase hydrolysis of cell wall preparations. Oligouronides nomenclature is described in the materials and methods. Letters on bar charts indicate groups of significantly different abundance (Kruskal-Wallis test). M: mealy; NM: non-mealy.

**S8.A**

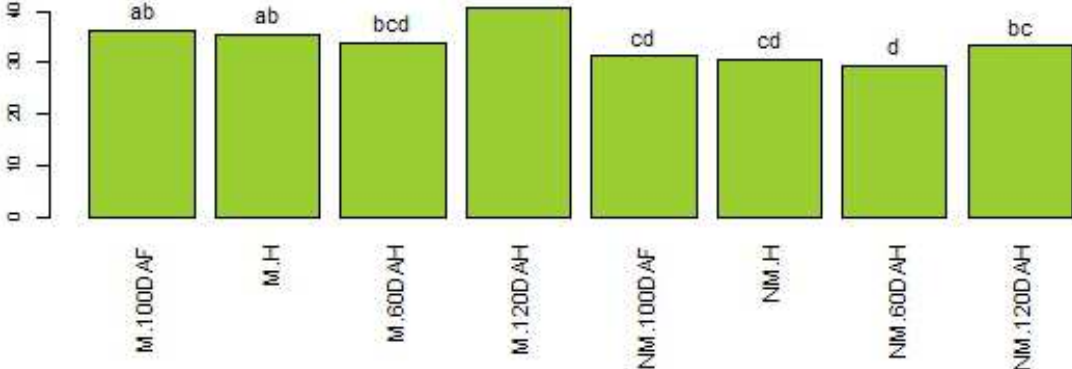
oligourinodes	100 DAF	H	60 DAH	120 DAH
DU4m2	Dark Grey	Dark Grey	White	Dark Grey
DU4m3	Dark Grey	Dark Grey	White	Dark Grey
DU5m3	Dark Grey	Dark Grey	Dark Grey	Dark Grey
DU5m4	White	Dark Grey	Dark Grey	Dark Grey
DU4m3a1	Dark Grey	Dark Grey	Dark Grey	Dark Grey
DU6m1a1	Dark Grey	Dark Grey	Dark Grey	Dark Grey
DU6m2a1	Dark Grey	Dark Grey	Dark Grey	Dark Grey
DU7m2a1	White	Dark Grey	Dark Grey	Dark Grey
DU7m3a1	White	Dark Grey	Dark Grey	Dark Grey
DU6m3a1	White	Light Grey	White	White
DU5m2a1	White	Light Grey	White	Dark Grey
DU5m4a1	White	White	Dark Grey	Dark Grey
DU6m2a2	White	White	Dark Grey	Dark Grey
DU6m4a1	White	White	White	Dark Grey
DU7m3a2	White	White	White	White

S8.B

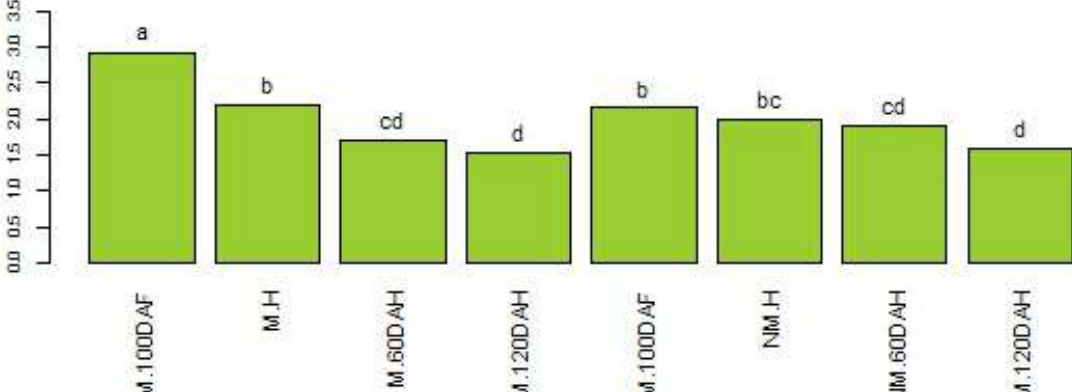
DU4m2



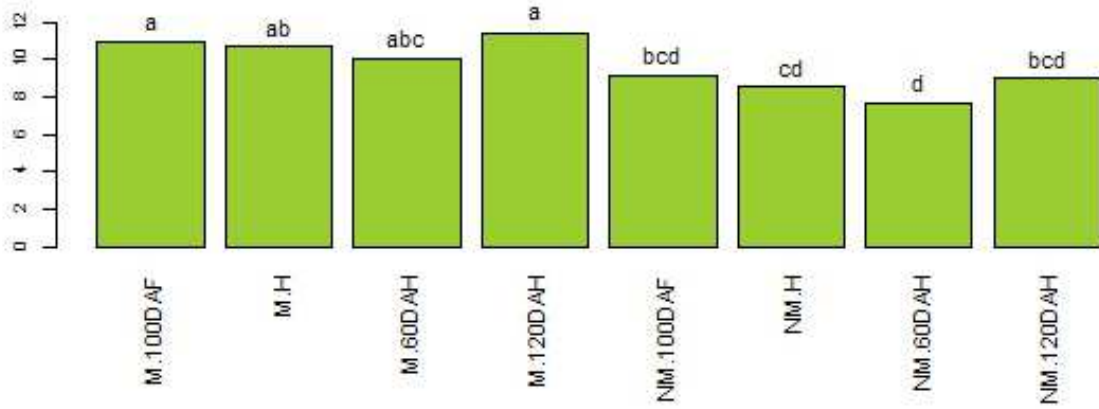
DU4m3



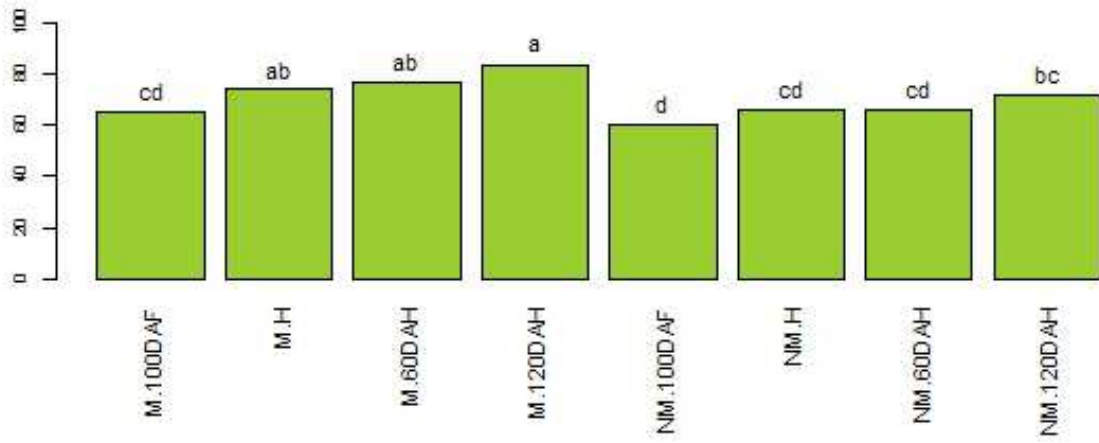
DU4m3a1



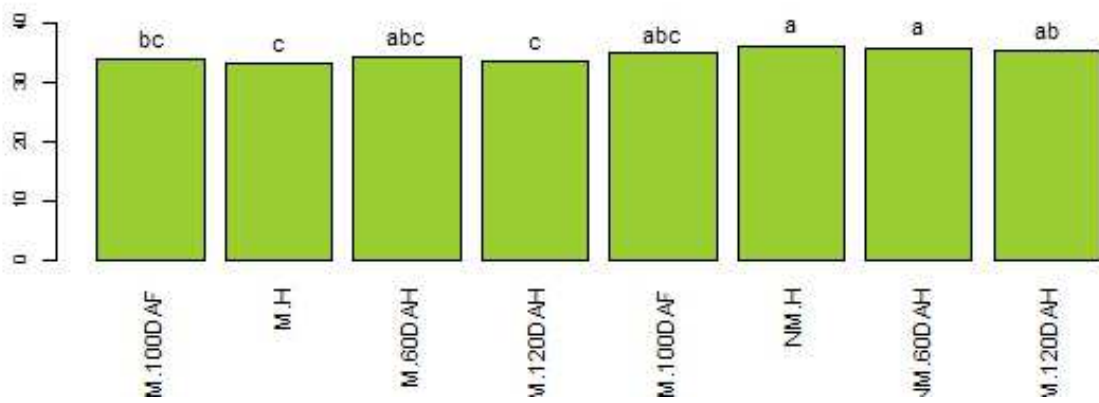
DU5m3



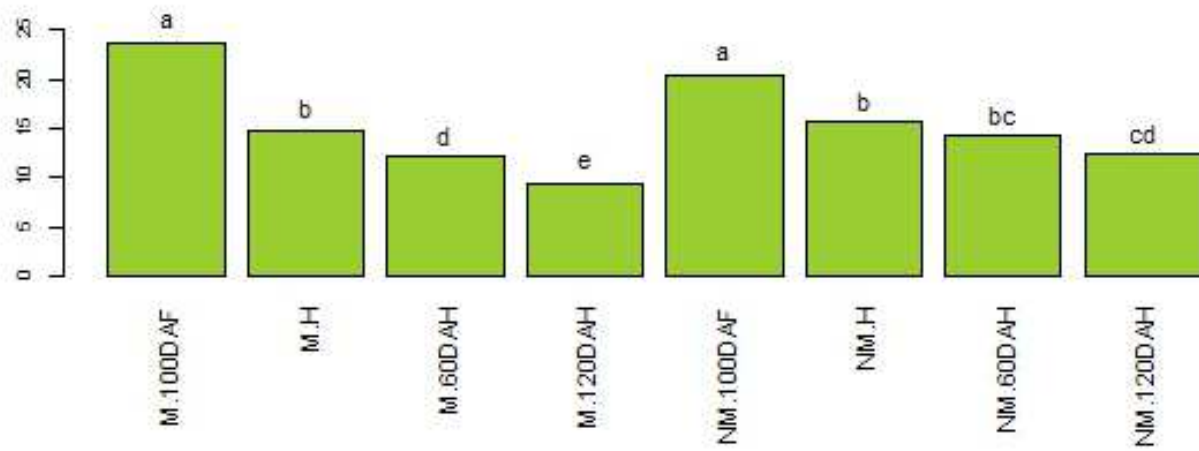
DU5m4



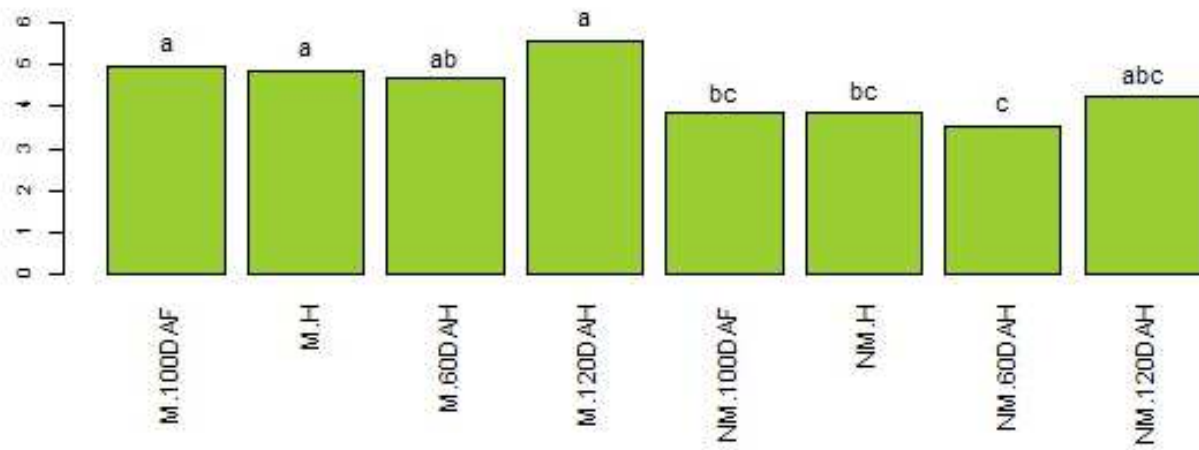
DU5m2a1



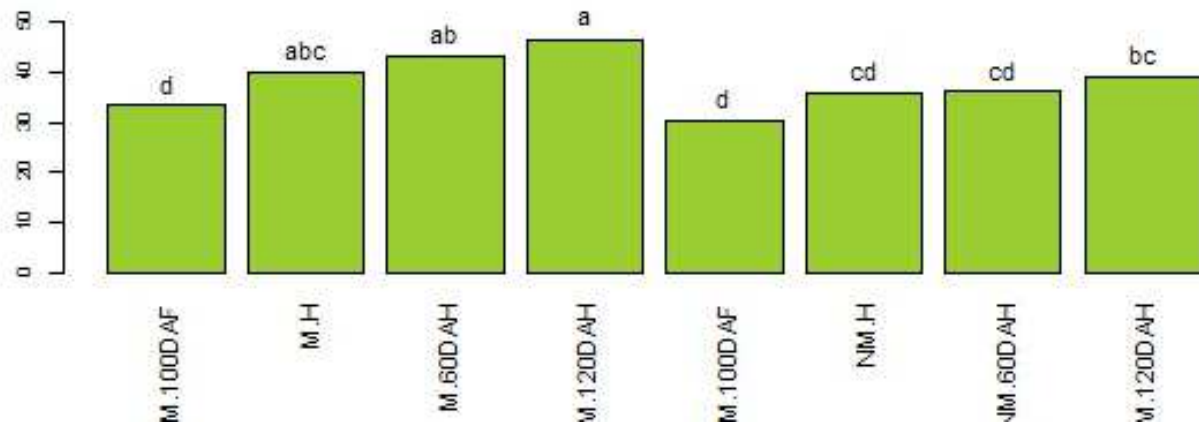
DU5m4a1



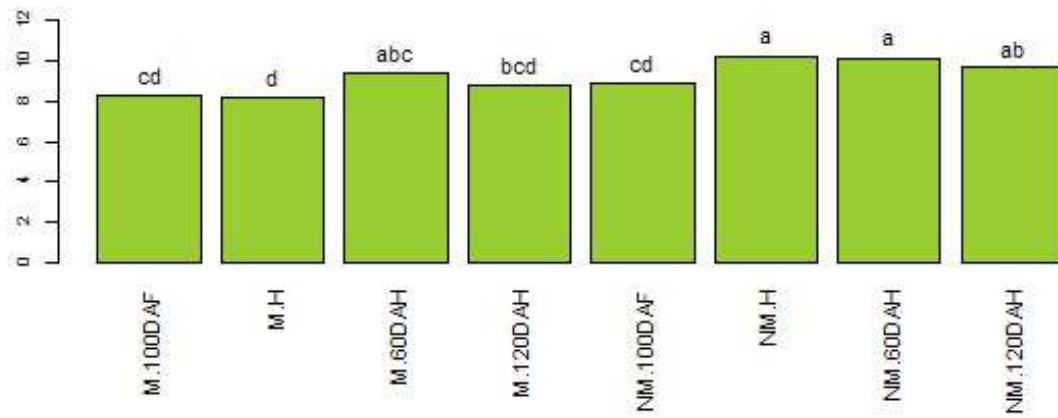
DU6m1a1



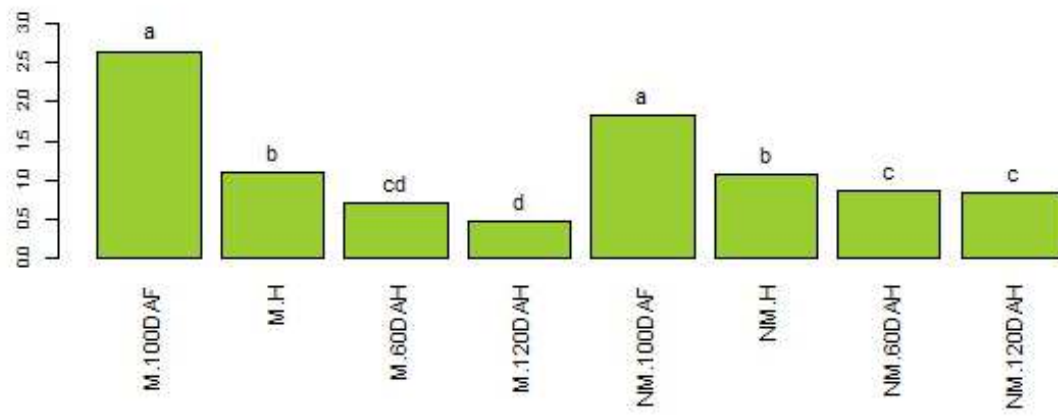
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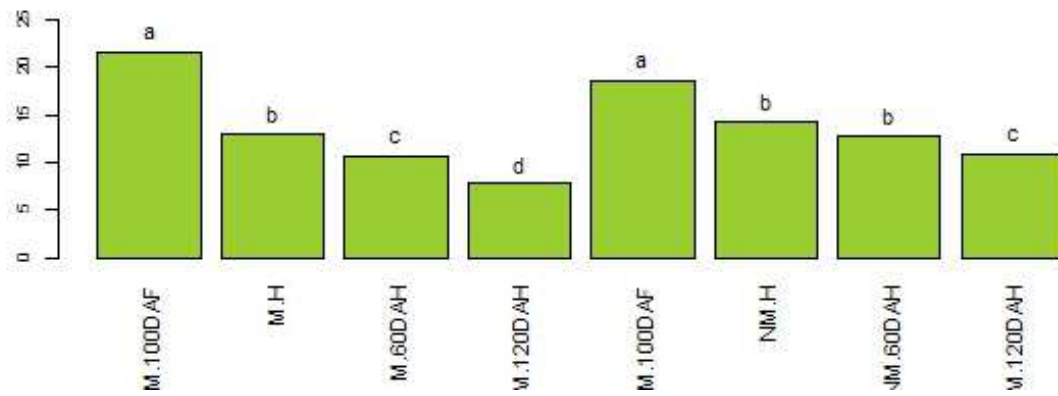
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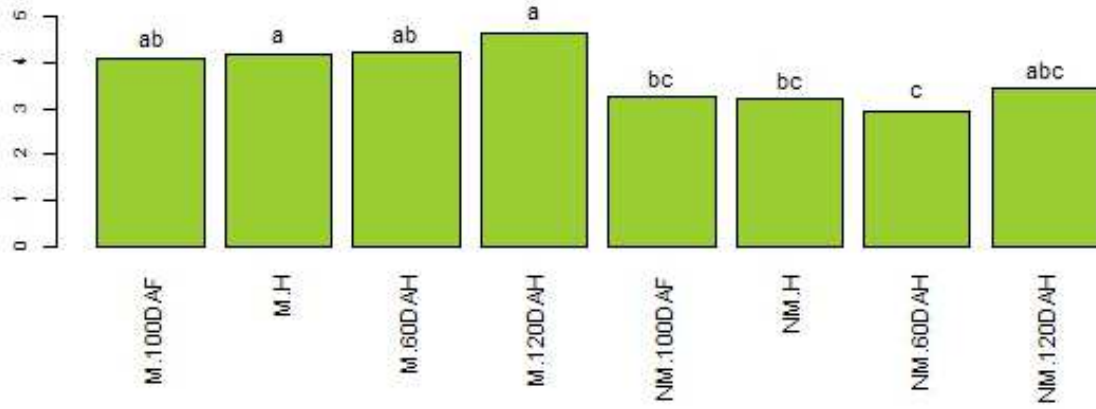
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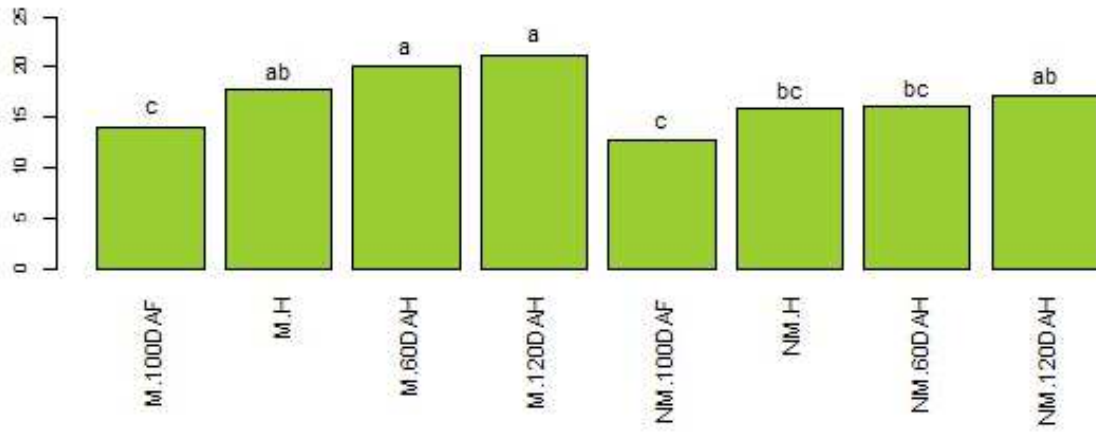
DU6m2a2



DU7m2a1



DU7m3a1



DU7m3a2

