



The improved assembly of the European Pear

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R esum  en anglais Apple and Pear diverged from each other between 5.4 and 21.5 MYA and are believed to share a common genome duplication event between 35 and 50 MYA (Velasco et al. 2010, Wu et al. 2012). Size differences have been observed between the Apple and Pear genomes which are estimated at 527Mb (*Pyrus x Bretschneideri* Rehd) and 700Mb (*Malus x Domestica* Borkh) respectively (Wu et al. 2013, Li et al. 2016). The difference in genome size has been accounted for primarily by the proliferation of transposable elements, with the gene space thought to be fairly similar between the two species (Wu et al. 2012). Comparative genomics of the lineage has however, been hampered by the fragmented nature of the reference assemblies. A new chromosome scale assembly was recently produced (Daccord et al. 2017) and now also a chromosome scale assembly of the European Pear (this study), which shows strong collinearity with Apple, greatly facilitating the comparative study of these genomes.

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