



Towards a Multi-Scaled Functional-Structural Model of Apple, Linking Ecophysiology at the Fruit and Branch Scales

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Résumé en anglais	<p>A multitude of data on eco-physiological processes in apple (<i>Malus x domestica</i>) is available, concerning various aspects of fruit growth and development, fruit quality, or leaf photosynthesis. However, despite the wealth of data and studies many processes leading to (inter-annual and intra-arboreal) heterogeneity in quantity of fruit production as well as fruit quality are still only poorly understood at the branch level Current Functional-Structural Plant Models of apple have targeted canopy architecture, i.e. development of vegetative structures. Here we will present a concept to apply the FSPM paradigm to the simulation of assimilation (source), transport and consumption (sink) of carbon in the context of a static structure representing the limb (fruit-bearing branch).</p>
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