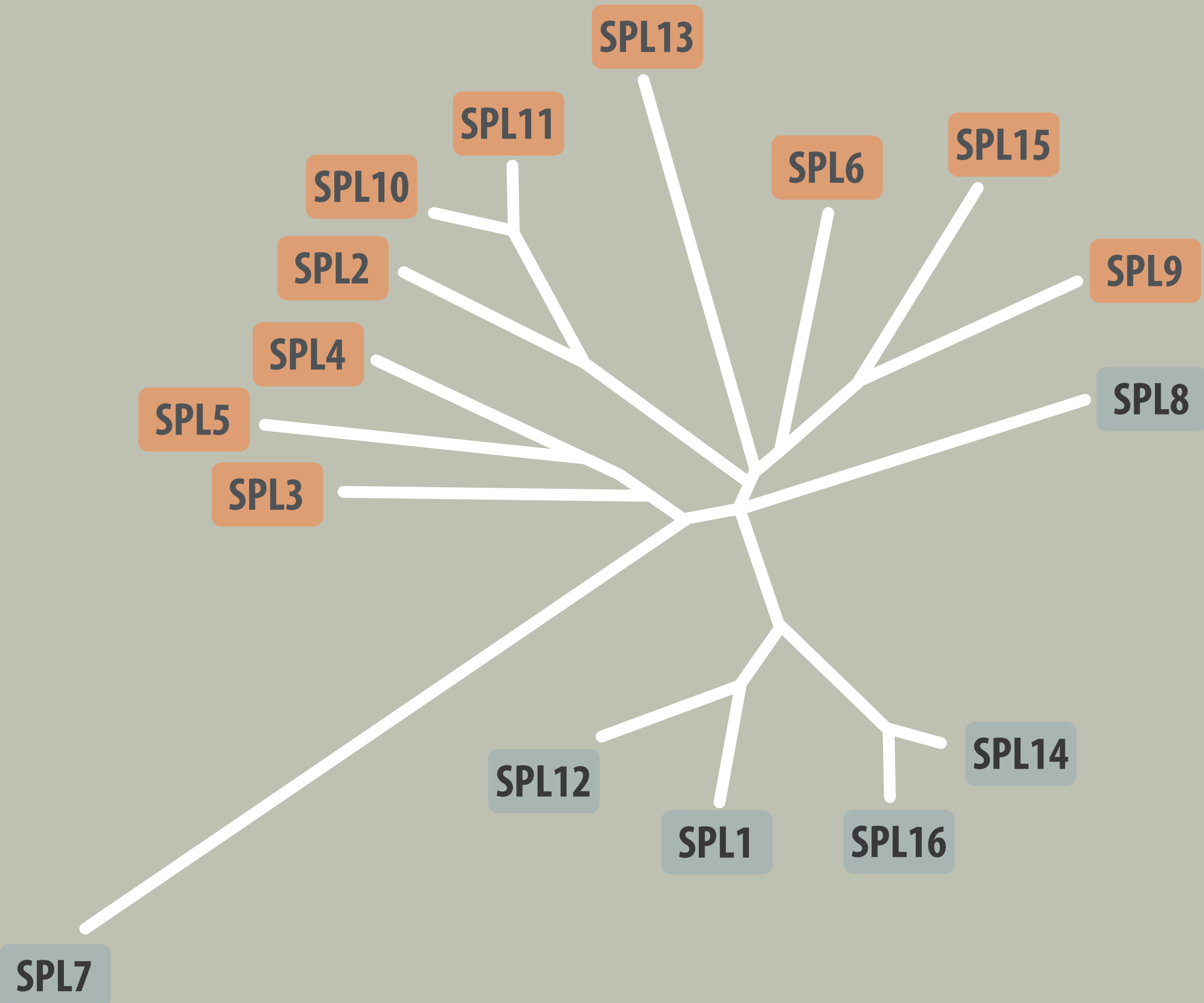


SQUAMOSOSA PROMOTER BINDING PROTEIN-LIKE (SPL)

miR156 targeted genes

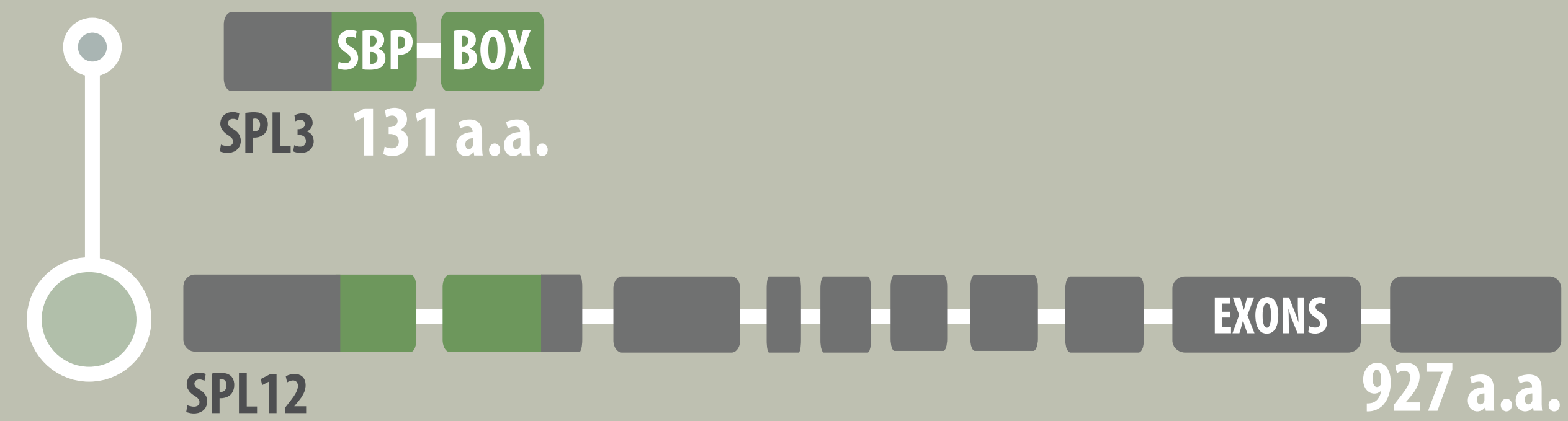


0.1

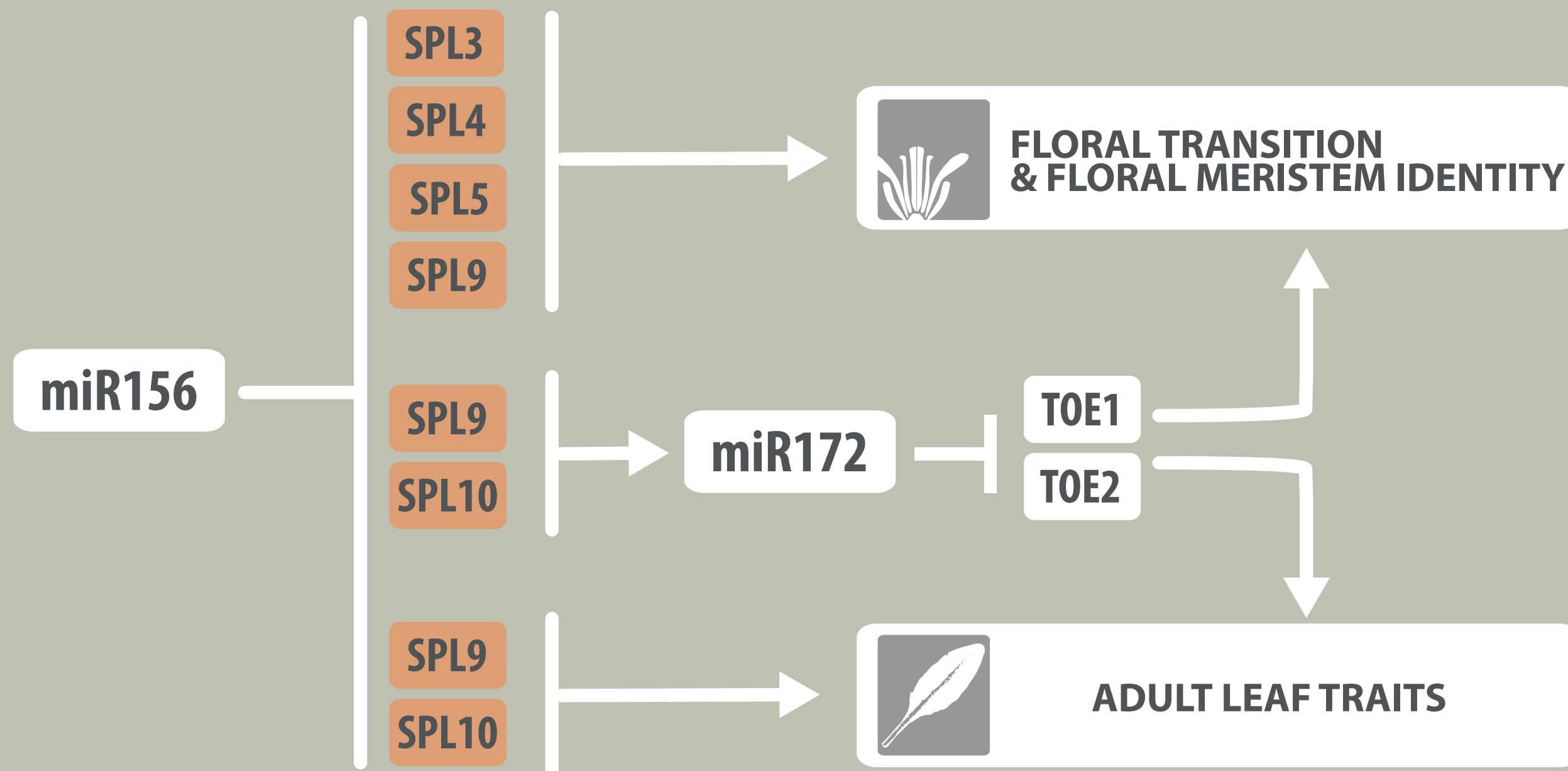
Non-miR156 targeted genes

Adapted from Xing et al., 2010

SPLs size range



SPLs and flowering



Adapted from Poethig, 2009

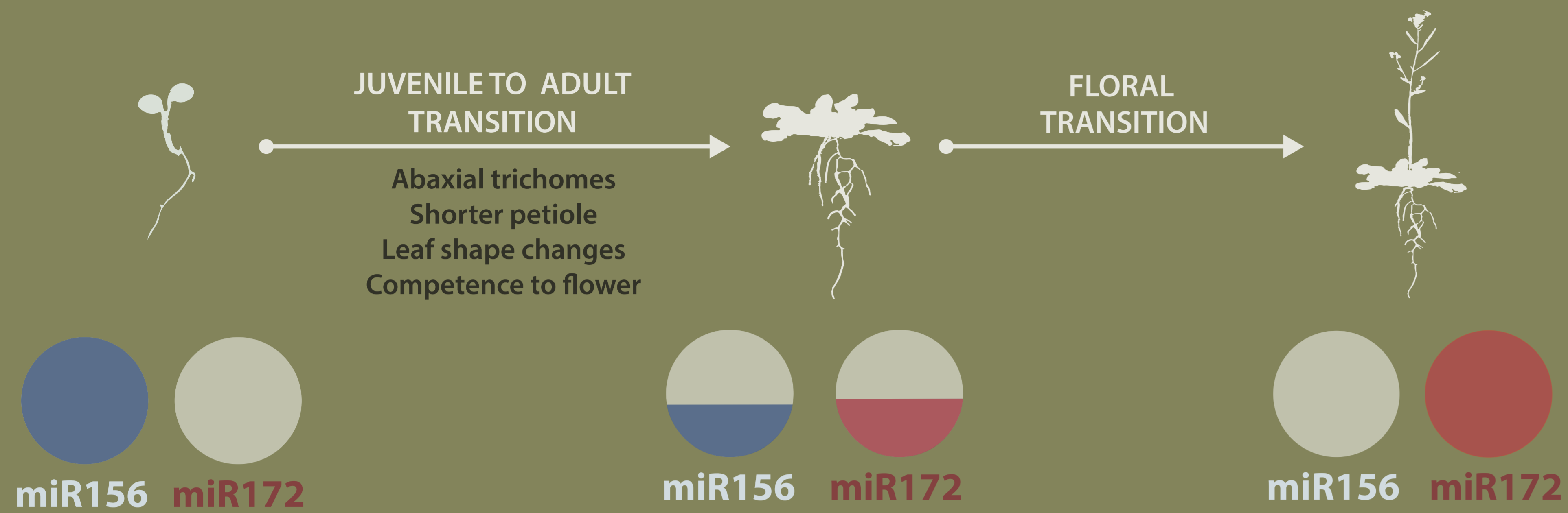
SPLs roles

	VEGETATIVE PHASE CHANGES	FLOWERING TIME	COPPER TOLERANCE	TOXIN SENSITIVITY	PLASTOCHRON LENGTH	SPOROGENESIS
SPL3	●	●	●	●	●	●
SPL4	●	●	●	●	●	●
SPL5	●	●	●	●	●	●
SPL7	●	●	●	●	●	●
SPL14	●	●	●	●	●	●
SPL10	●	●	●	●	●	●
SPL11	●	●	●	●	●	●
SPL2	●	●	●	●	●	●
SPL15	●	●	●	●	●	●
SPL9	●	●	●	●	●	●
SPL8	●	●	●	●	●	●

Adapted from Preston and Hileman, 2013

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MIR156 CONTROLS PHASE TRANSITIONS



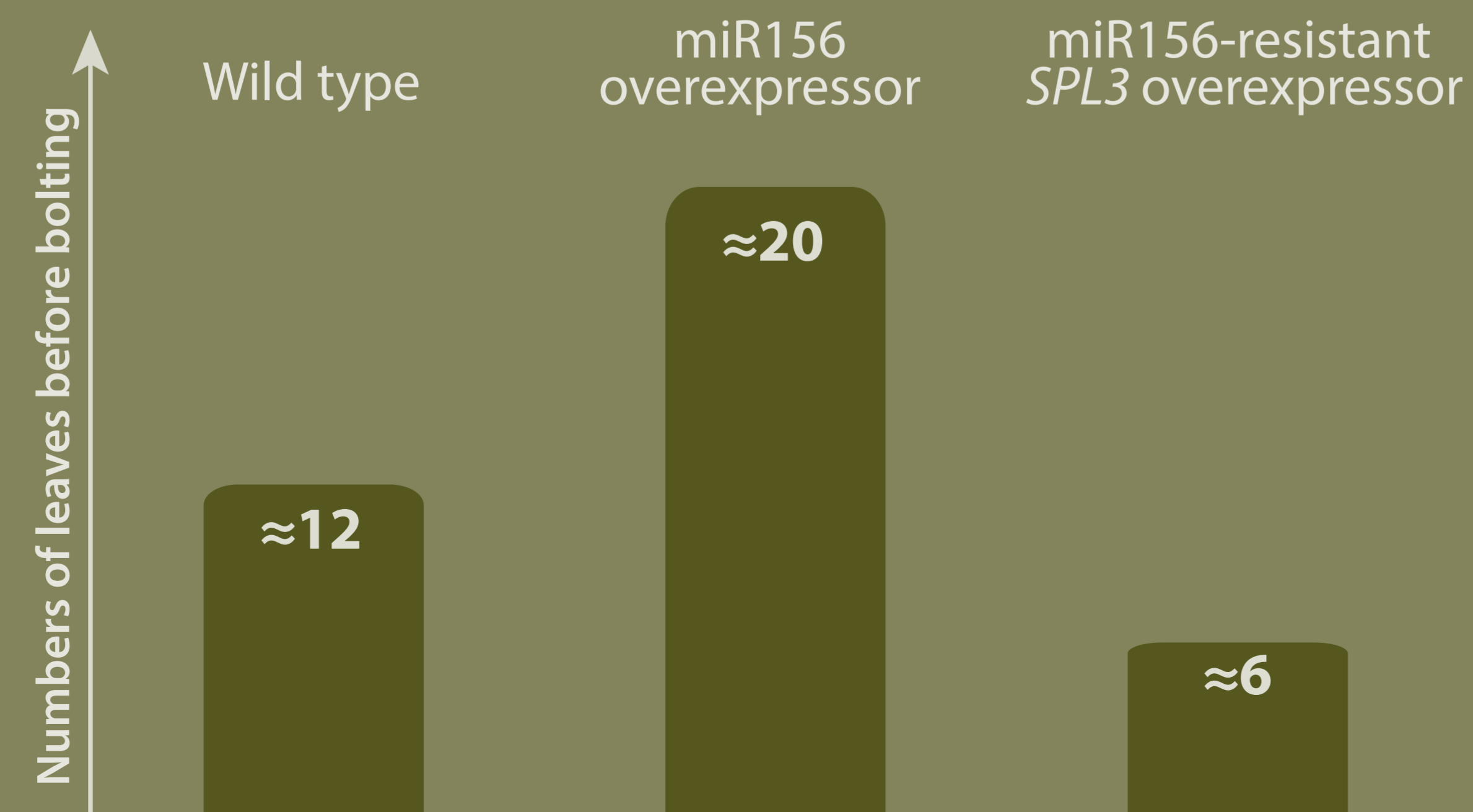
miR156 REPRESSES ADULT LEAF TRAITS

Adapted from Wu and Poethig, 2006

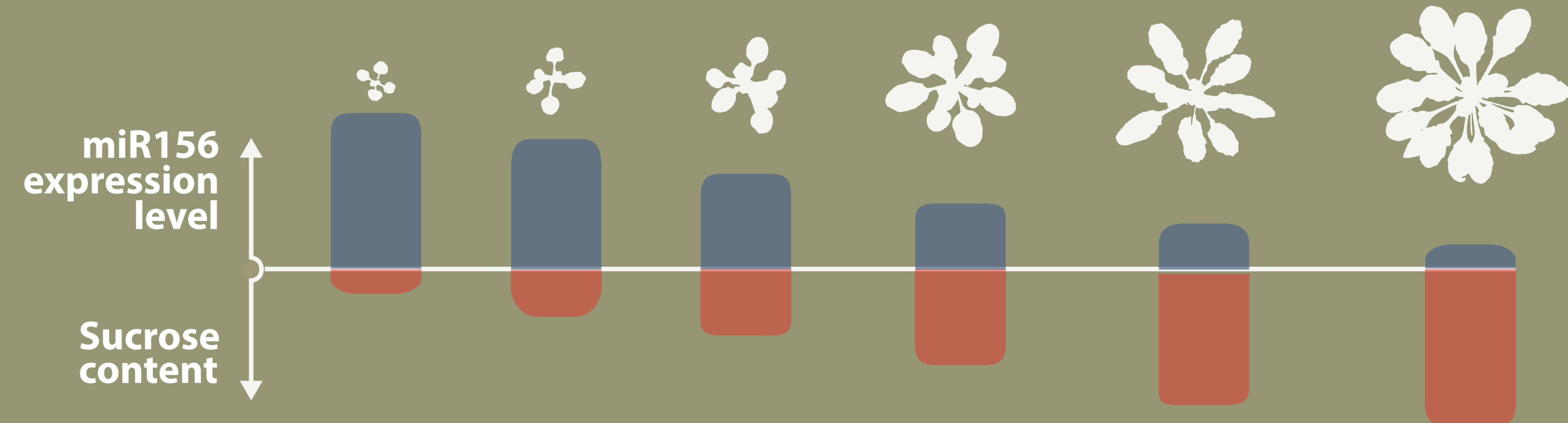


miR156 OVEREXPRESSION DELAYS FLOWERING

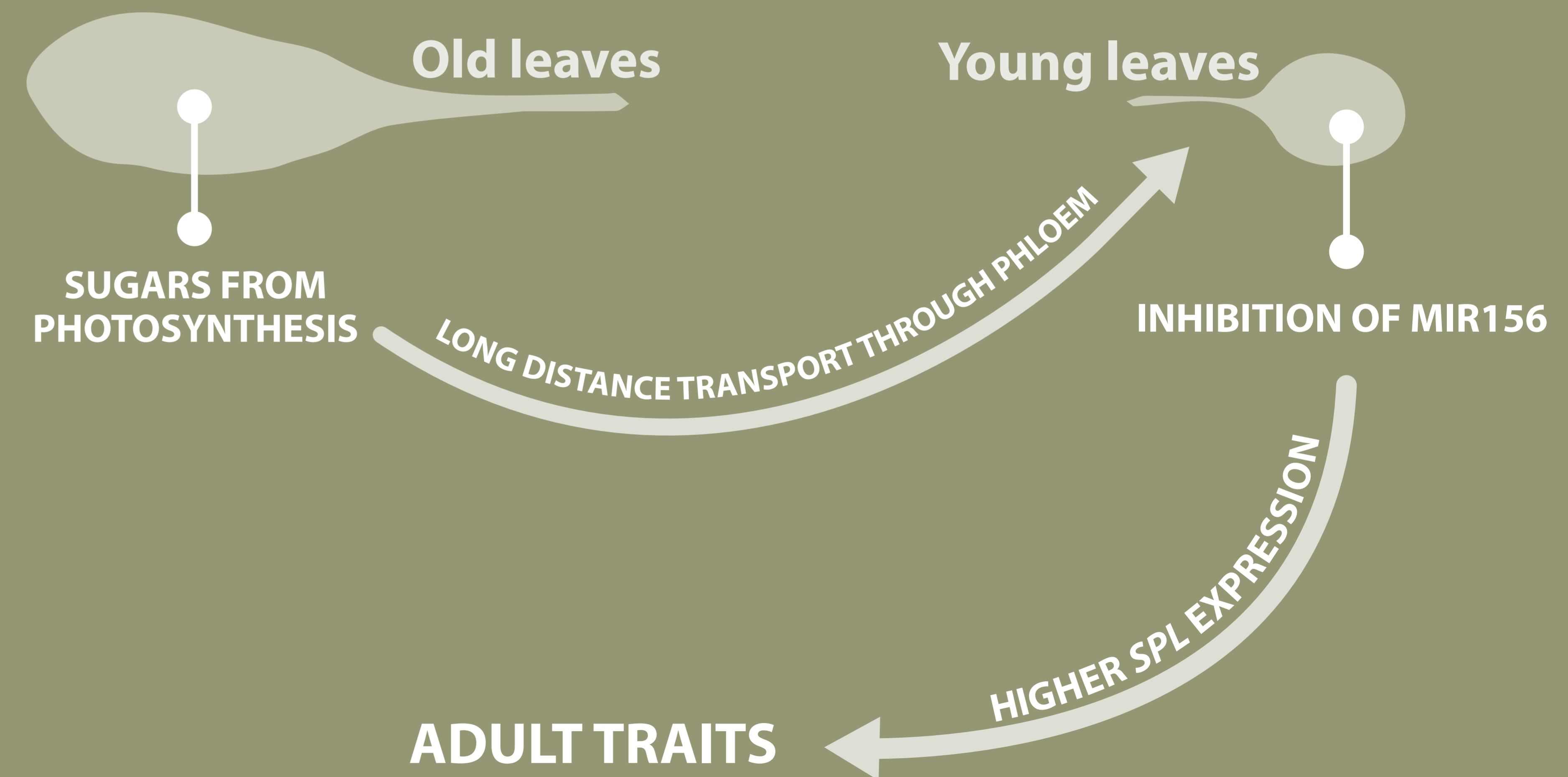
Adapted from Wu and Poethig, 2006



SUGARS REGULATE MIR156 EXPRESSION

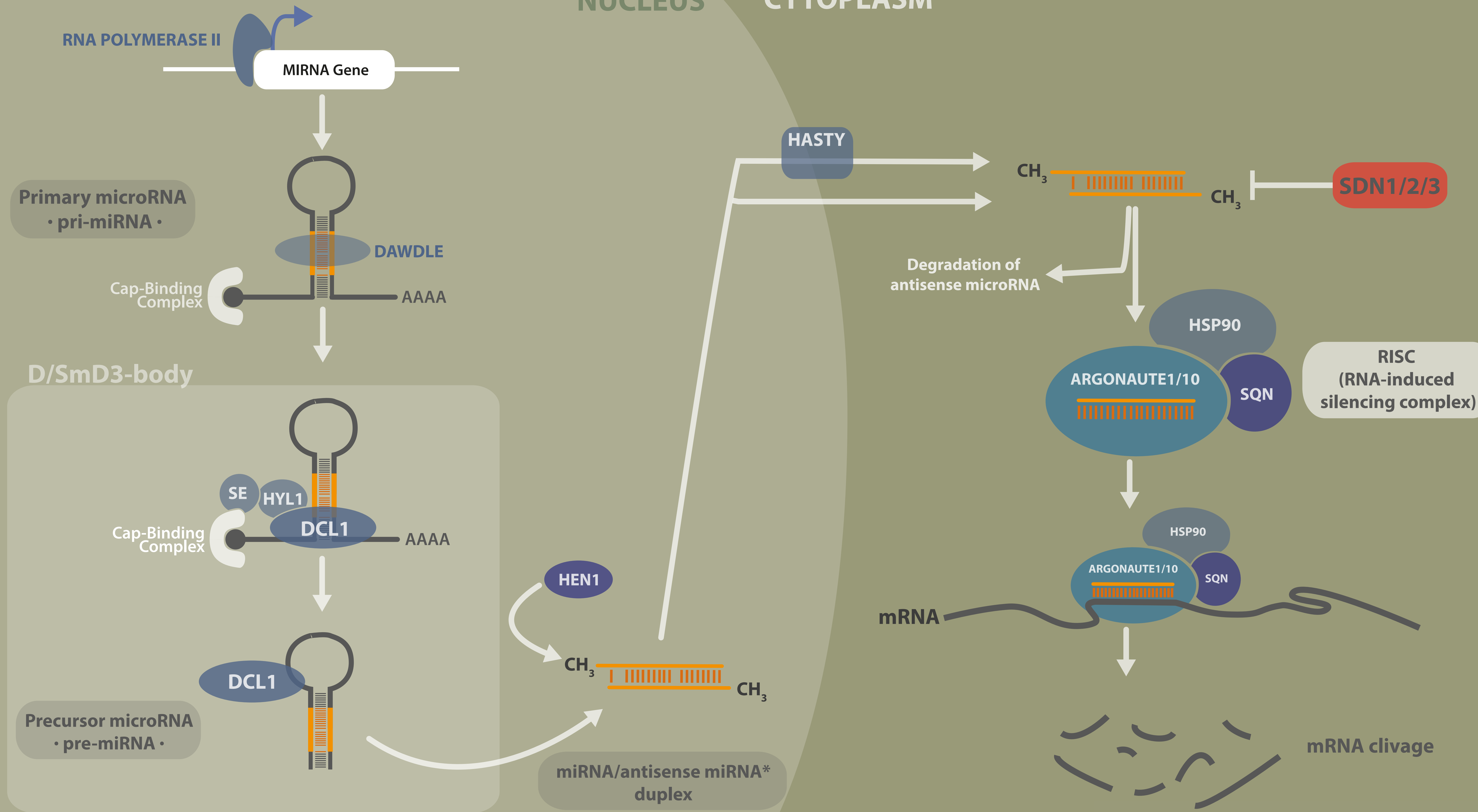


WORKING MODEL



Results from Yu et al., 2013 ; Yang et al., 2011 ; Yang et al., 2013

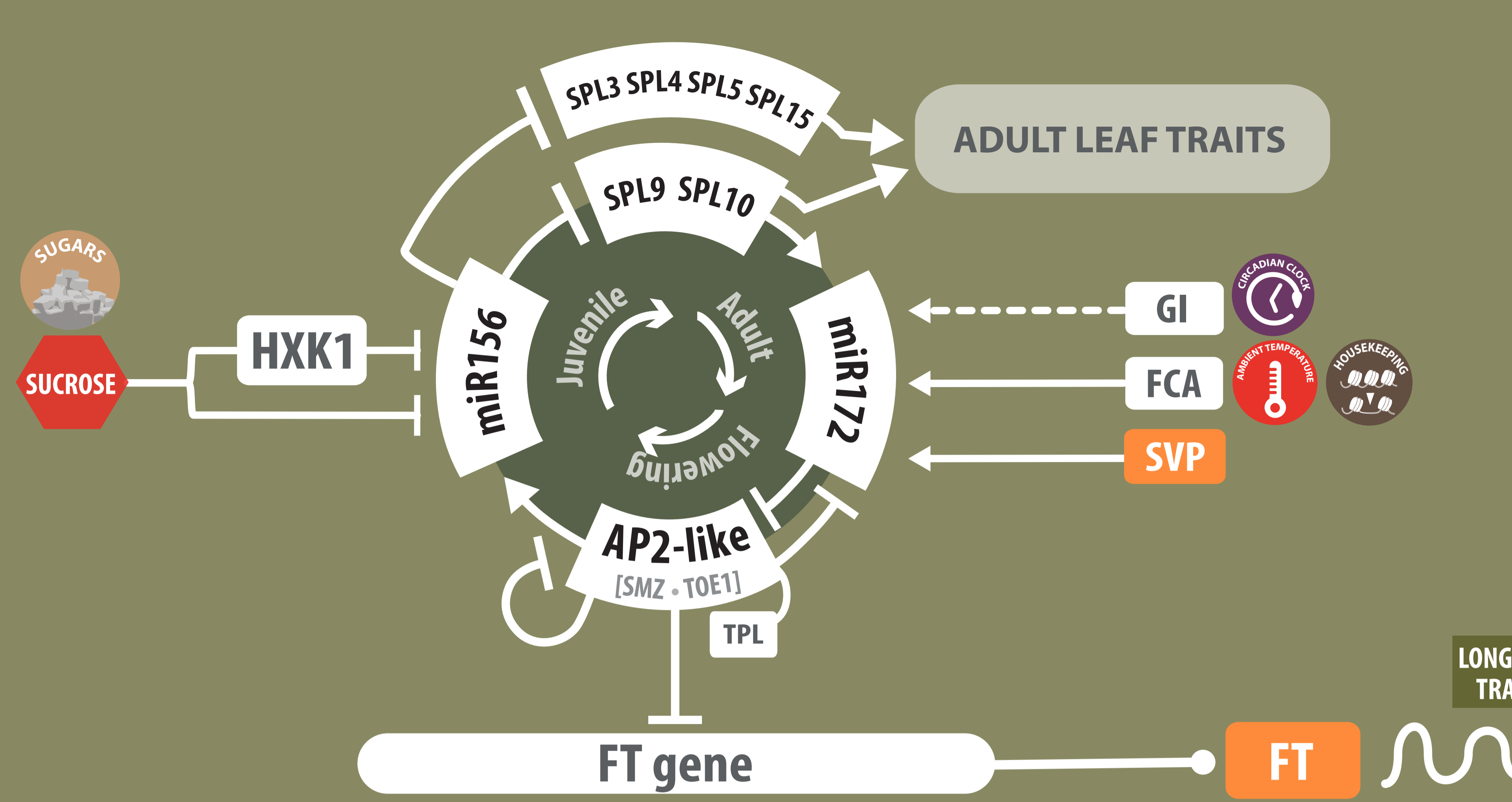
NUCLEUS CYTOPLASM



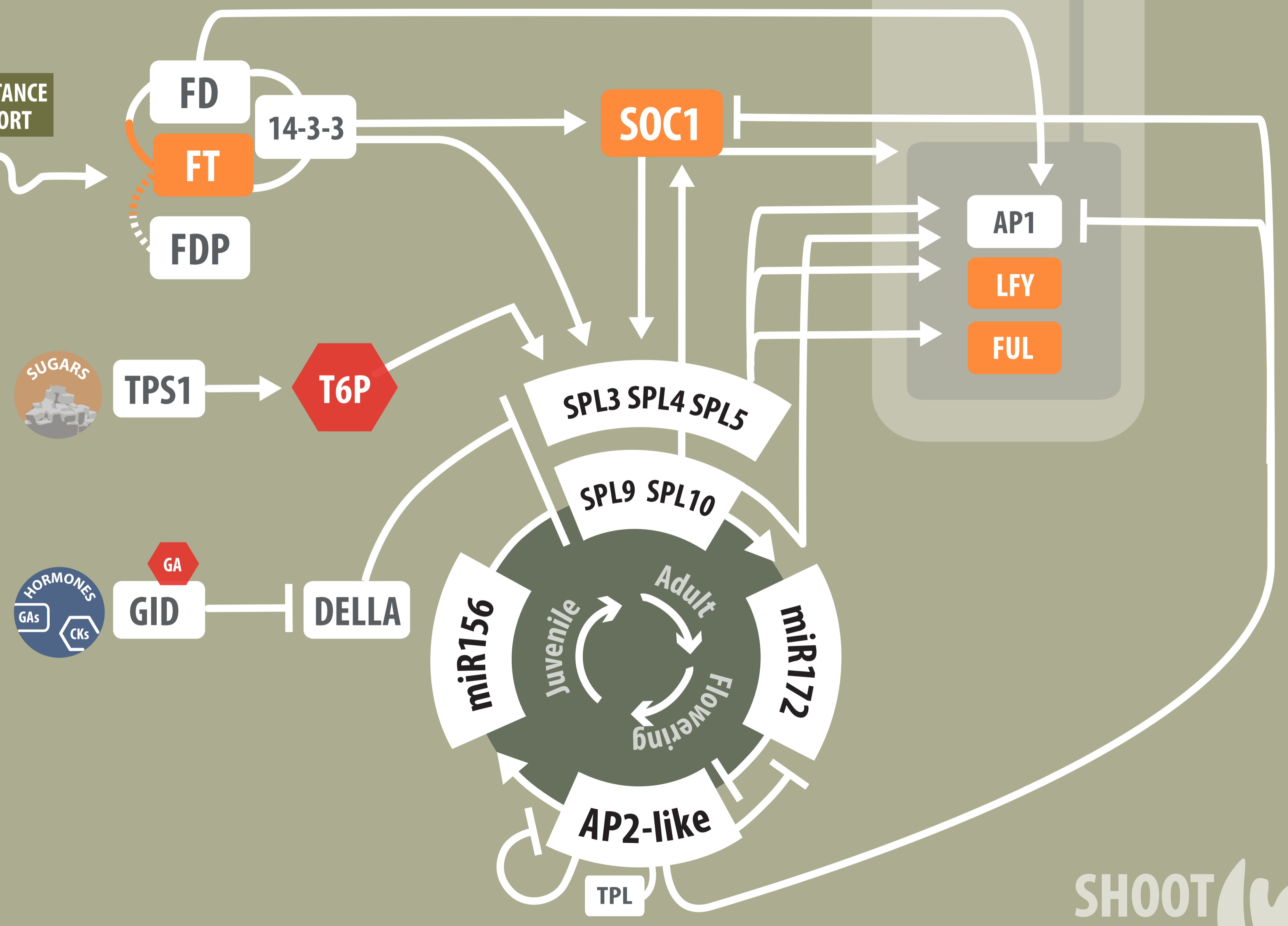
MORE ABOUT THE SPL GENES

MORE ABOUT miR156

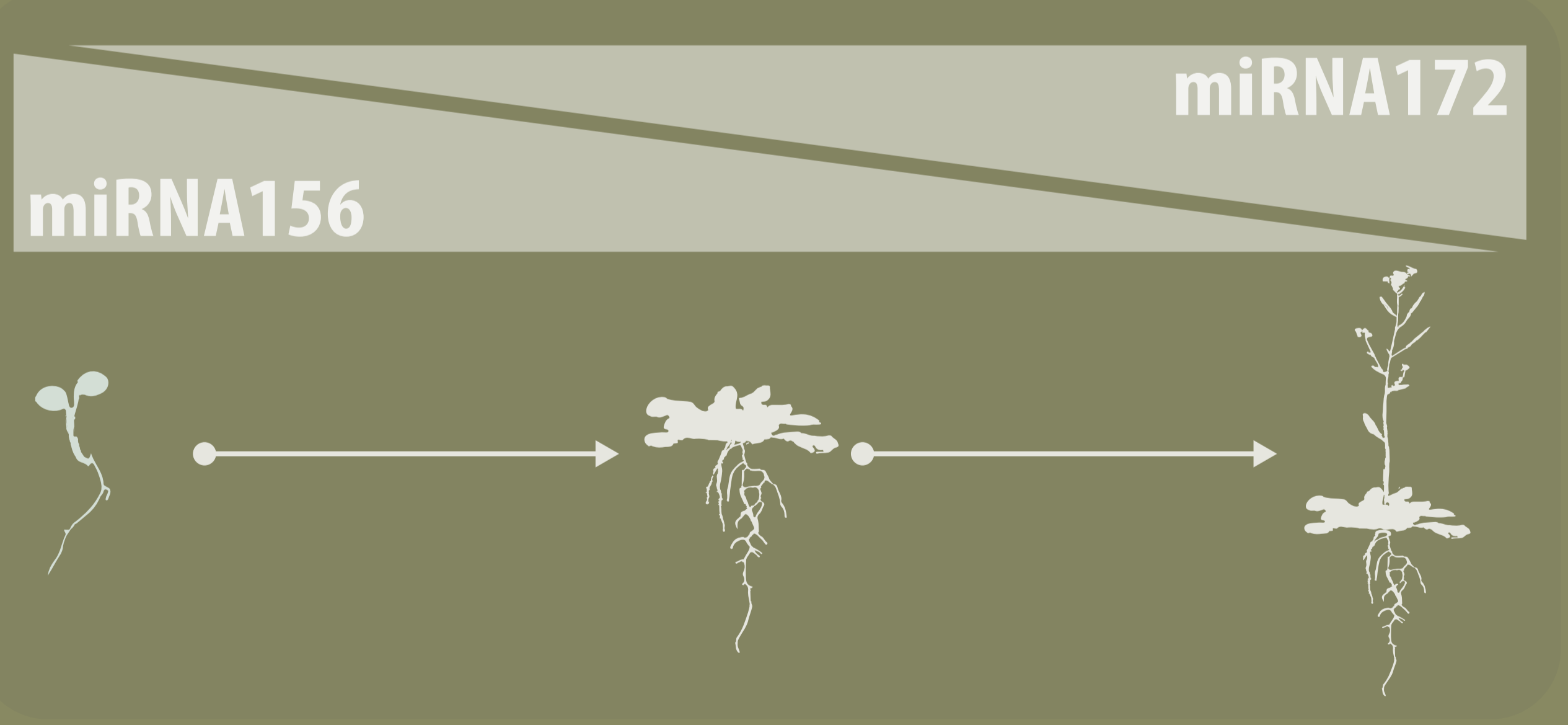
microRNAs BIOGENESIS



LONG DISTANCE TRANSPORT



SHOOT APICAL MERISTEM



LEAVES

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Genes/proteins
 Integrator genes/proteins
 Non proteic compounds
 Positive regulations
 Negative regulations
 Long-distance transport
 Protein-protein interactions
 Putative mechanisms