

<b>Process</b>	<b>Host</b>	<b>Genes up-regulated</b>	<b>Genes down-regulated</b>
Shoot elongation	<i>Arabidopsis</i>	ARF6 [35], BZR1[35], PKL[35], HBI1 [40], PRE6 [40]	RGA [35]
	<i>Festuca arundinacea</i>	XET [19], $\alpha$ -expansin [19], $\beta$ -expansin [19]	
	<i>Oryza sativa</i>	KNOX [23]	SLR1 [22], MOC1 [22]
Xylogenesis	<i>Eucalyptus</i>	CESA3 [58], CESA4 [58], CESA7 [58]	
	<i>Betula</i>	MYB [59], CESA [59], PAL [59]	
Root development	<i>Gladiolus hybridus</i>	SUS2 [78]	
	<i>Arabidopsis</i>		RGA [71], ARR1 [71], SHY2 [71]
Adventitious rooting	<i>Malus sp.</i>		PIN [99]
Trichome formation	<i>Arabidopsis</i>	GL1 [110], GL3 [110], EGL3 [110], TTG1 [110]	HAT1 [111]
Leaf senescence	<i>Arabidopsis</i>	NAP [113], SAG [119], WRKY45 [119], WRKY75 [120]	
	<i>Brassica rapa</i>		WRKY6 [116]
Flowering	<i>Arabidopsis</i>	GAF1-TPR [121,276], SOC1 [121–123,127], FT [121–123], SPL3 [126,127], LFY [126,127], AP1 [126,127], FUL [126,127], CO [130]	SVP [121–123], ELF3 [123]
	<i>Jatropha curcas</i>	AP3 [134], PI [134], SEP1-3 [134], SOC1 [134], LFY [134]	
	<i>Malus sp</i>	TFL1 [147]	
	<i>Chrysanthemum</i>	SOC1 [135], LFY [135]	
Flower formation and fertilization	<i>Arabidopsis</i>	RGA [149], RGL1 [149], RGL2 [149], TCP15 [151], SAUR63 [151], TPS11 [156], TPS21 [156], MYC2 [156], miR156 [124]	

	Chinese chestnut	miR156 [129]	
Fruit development	<i>Arabidopsis</i>	ALC [163]	SPT [174]
	<i>Solanum lycopersicum</i>		RIN [167,168], NOR [167,168], CNR [167,168]
Seed germination	<i>Arabidopsis</i>	ATML1 [184], PDF2 [184] caca, L1 box [184], CWRP [189]	RGL2, SOM
	<i>Lepidium sativum</i>	CWRP [190]	
Embryo maturation	<i>Arabidopsis</i>	LEC1 [218]	
Somatic embryogenesis	<i>Arabidopsis</i>	LEC2 [220], YUC2 [220], YUC4 [220], IAA30 [220]	

**Table S1.** Genes up-regulated or down-regulated by GA action in each physiological process and species reported in the review.

Process	Host	Host type	Gene/Protein	GA signaling/synthesis pathway activation	GA singnaling/synthesis pathway inhibition
Shoot elongation	<i>Oryza sativa</i>	Monocot	EUI [41]	X	
			PIF4 [42]		X
	<i>Arabidopsis</i>	Dicot	GI [43]	X	
			PIF3 [42,44,45], PIF4 [42,44,45], PIF5 [42,44,45]		X
			BZR1 [46]		X
Adventitious rooting	<i>Populus</i>	Dicot	HDT902 [47]		X
Bud break	Hybrid poplar	Dicot	MADS12 TF [48]	X	
Trichome formation	<i>Arabidopsis</i>	Dicot	TEM [11]	X	
			HAT1 [12]	X	
Leaf senescence	<i>Brassica rapa</i>	Dicot	TCP21 [49]		X
Flowering	<i>Arabidopsis</i>	Dicot	SVP [30,50]	X	
			TEM [51]	X	
	<i>Chrysanthemum</i>	Dicot	BBX24 [52]	X	
	<i>Paeonia suffruticosa</i>	Dicot	CPS [53]		X
	<i>Oryza sativa</i>	Monocot	SAW1 [54]		X

Seed germination	<i>Arabidopsis</i>	Dicot	ABI4 [55,56]	X	
			SOM [57,58]	X	
			FUS3 [59]	X	
			PIL5 [60,61]	X	
			SPT [60,62]	X	X
			DAG1 [63,64]	X	
			FHY3 [62]		X
			RVE [65]	X	
			HYH [66]		X
	<i>Hodeum vulgare</i>	Monocot	CRY [67,68]	X	
Somatic embryogenes is	<i>Arabidopsis</i>	Dicot	FUS3 [40]	X	

**Table S2.** Genes or proteins reported in the review which activate or inhibit GA signaling or synthesis pathways in each developmental process.