



中国科学技术大学

University of Science and Technology of China



Botanophobia 2019 春

这就是标题

这是副标题

Student

Jan. 11st, 2019



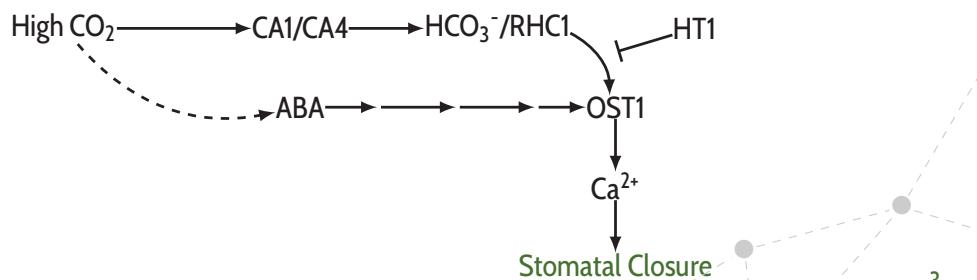
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CO₂ Regulation of Stomatal

Ball-Berry-Leuning model

$$g_s = g_0 + \frac{a_1 A_n}{(c_s - \Gamma)(1 + \frac{D_s}{D_0})}$$

CO₂ signaling pathway in stomatal movement



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Some TFs in *Arabidopsis* have been identified

AGI	TF	Regulate RSA	Study
AT2G14210	ANR1	yes	Zhang & Forde, Science, 1998
AT5G67420	LBD37	-	Rubin et al, Plant Cell, 2009
AT3G49940	LBD38	-	Rubin et al, Plant Cell, 2009
AT4G37540	LBD39	-	Rubin et al, Plant Cell, 2009
AT2G42200	SPL9	-	Krouk et al, Genome Biology, 2010
AT5G37020	ARF8	yes	Gifford et al, PNAS, 2008
AT4G24020	NLP7	yes	Castaings et al, The Plant Journal, 2009
AT5G49450	BZIP1	-	Obertello et al, BMC Systems Biology, 2010
AT1G64530	NLP6	-	Konishi & Yanagisawa, Nature communications, Vidal 2011 et al
AT5G07680	NAC4	yes	

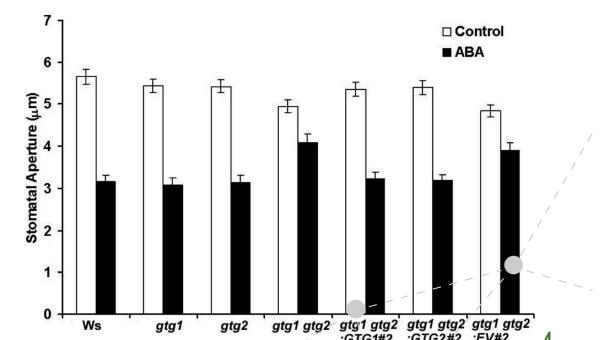
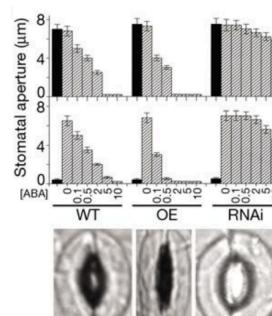


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ABA Regulation of Stomatal

Tardieu—Davies model

$$g_s = g_{min} + (g_{max} - g_{min}) \exp(-[ABA]\beta \exp(\delta\Psi_f))$$



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