

The continuous flowering gene in rose is a floral inhibitor

Submitted by Laurence Hibran... on Tue, 06/02/2015 - 13:12

Titre	The continuous flowering gene in rose is a floral inhibitor
Type de publication	Communication
Type	Communication avec actes dans un congr�s
Ann�e	2015
Langue	Anglais
Date du colloque	25-30/08/2013
Titre du colloque	VI International Symposium on Rose Research and Cultivation
Titre des actes ou de la revue	Acta Horticulturae
Volume	1064
Pagination	107-113
Auteur	Hibrand-Saint Oyant, Laurence [1], Randoux, M. [2], Jeauffre, Julien [3], Thouroude, Tatiana [4], Pierre, S. [5], Jammes, M.J. [6], Reynoird, Jean-Paul [7], Foucher, Fabrice [8]
Pays	Allemagne
Editeur	International Society for Horticultural Science
Ville	Hanovre
Mots-cl�s	floral repressor [9], recurrent blooming [10], RoKSN [11], TFL1 [12], transgenic [13]
R�sum� en anglais	<p>In rose, RoKSN, a TFL1 homologue, is a key regulator of continuous flowering. To study the function of this gene in planta, protocols of plant transformation are needed. We complemented <i>tfl1</i> Arabidopsis mutants and ectopically expressed RoKSN in a continuous-flowering rose. In Arabidopsis, RoKSN complemented the <i>tfl1</i> mutant by rescuing late flowering and indeterminate growth. In continuous-flowering rose, the ectopic expression of RoKSN led to the absence of flowering. In these transgenic roses, a study of genes implied in the floral regulation was carried out. The floral activator transcripts decreased whereas the FD transcription factor is up-regulated. We conclude that RoKSN is a floral repressor and could regulate the expression of transcripts as RoFT and RoFD. These results could strengthen a mechanism of competitive interactions of RoFT and RoKSN with a common partner, FD to move towards flowering or vegetative developments.</p>
URL de la notice	http://okina.univ-angers.fr/publications/ua12172 [14]
Lien vers le document en ligne	http://www.actahort.org/books/1064/1064_13.htm [15]

- [1] <http://okina.univ-angers.fr/l.hibrand/publications>
- [2] [http://okina.univ-angers.fr/publications?f\[author\]=21256](http://okina.univ-angers.fr/publications?f[author]=21256)
- [3] [http://okina.univ-angers.fr/publications?f\[author\]=11914](http://okina.univ-angers.fr/publications?f[author]=11914)
- [4] [http://okina.univ-angers.fr/publications?f\[author\]=11915](http://okina.univ-angers.fr/publications?f[author]=11915)
- [5] [http://okina.univ-angers.fr/publications?f\[author\]=12374](http://okina.univ-angers.fr/publications?f[author]=12374)
- [6] [http://okina.univ-angers.fr/publications?f\[author\]=21258](http://okina.univ-angers.fr/publications?f[author]=21258)
- [7] [http://okina.univ-angers.fr/publications?f\[author\]=13160](http://okina.univ-angers.fr/publications?f[author]=13160)
- [8] <http://okina.univ-angers.fr/f.foucher/publications>
- [9] [http://okina.univ-angers.fr/publications?f\[keyword\]=12177](http://okina.univ-angers.fr/publications?f[keyword]=12177)
- [10] [http://okina.univ-angers.fr/publications?f\[keyword\]=18032](http://okina.univ-angers.fr/publications?f[keyword]=18032)
- [11] [http://okina.univ-angers.fr/publications?f\[keyword\]=18034](http://okina.univ-angers.fr/publications?f[keyword]=18034)
- [12] [http://okina.univ-angers.fr/publications?f\[keyword\]=18033](http://okina.univ-angers.fr/publications?f[keyword]=18033)
- [13] [http://okina.univ-angers.fr/publications?f\[keyword\]=12458](http://okina.univ-angers.fr/publications?f[keyword]=12458)
- [14] <http://okina.univ-angers.fr/publications/ua12172>
- [15] http://www.actahort.org/books/1064/1064_13.htm

Publié sur *Okina* (<http://okina.univ-angers.fr>)