



# TALEN and CRISPR strategies for targeted editing of the plant genome

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## CORESTA AP2015 - ABSTRACT FORM

Please provide the following information.

<b>Title:</b>	TALEN and CRISPR strategies for targeted editing of the plant genome
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<b>Abstract Body</b> (180-300 words):	<p>Despite certain political concerns in some countries, transgenesis is already an indispensable technology for seed companies and public scientists to remain competitive at the international level.</p> <p>Recent scientific advances in the field of transgenesis now provide answers to certain reserves of citizens and blur the border between breeding and transgenesis.</p> <p>The advent of nuclease technology opens the way to extremely precise modifications of plant genomes at pre-determined sites. Among the nucleases used until now, transcription activator-like effector nucleases (TALENs), as well as the clustered regularly interspaced short palindromic repeats/Cas9 (CRISPR/Cas9) system, have proved to be particularly promising, driving to innovative applications near to revolutionise basic research and plant breeding.</p> <p>In this talk, recent developments in the field of targeted genome editing technologies in plant will be covered.</p>
<b>Key Words:</b>	Targeted plant genome editing; CRISPR, TALEN