

Title (en)  
METHOD FOR GENERATING CGMMV RESISTANT PLANTS, GENETIC CONSTRUCTS, AND OBTAINED CGMMV-RESISTANT PLANTS

Title (de)  
VERFAHREN ZUM GENERIEREN CGMMV-RESISTENTER PFLANZEN, GENETISCHE KONSTRUKTE UND DAMIT HERGESTELLTE CGMMV-RESISTENTE PFLANZEN

Title (fr)  
TECHNIQUE DE GENERATION D'UNE RESISTANCE CONTRE LE VIRUS DE LA MOSAIQUE MARBRURE DU CONCOMBRE VERT (CGMMV) CHEZ LES PLANTES, CONSTRUCTIONS GENETIQUES, ET PLANTES RESISTANT AU CGMMV OBTENUES .

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Abstract (en)  
[origin: WO0109300A2] The present invention relates to a method for generating resistance against Cucumber Green Mottle Mosaic Virus (CGMMV) in plants, in particular in plants susceptible to infection by CGMMV, such as <i>Cucurbitaceae</i> species, including melon, cucumber, watermelon and bottlegourd. In the invention, the plants are provided with replicase-mediated resistance against CGMMV. For this purpose, the plants are transformed with a polynucleotide sequence that: i) has been derived from the 129 kD sequence, the 57 kD sequence, or the 186 kD readthrough sequence of native CGMMV; ii) upon (at least) transformation into the plant and transcription into RNA - and usually also translation into the corresponding encoded protein - can provide the plant with resistance against CGMMV; but iii) does not encode any replicase activity. In particular, this will be a nucleotide sequence that encodes a defective variant of the replicase of CGMMV. The invention further relates to genetic constructs containing such a polynucleotide sequence suitable for use in the above method, and to CGMMV-resistant transgenic plants obtained via said method.

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