

***ICTV – Plant Virus Subcommittee***

**Study Group on Geminiviruses**

**2002.P110.02:** To change the name of the species *Tomato leaf crumple virus* (ToLCrV) to *Chino del tomate virus* (CdTV).

Date: 19<sup>th</sup> July 2002

From: John Stanley, Chair of the Study Group on Geminiviruses

Subject: *Begomovirus* species name change

Proposal: To change the name of the species *Tomato leaf crumple virus* (ToLCrV) to *Chino del tomate virus* (CdTV).

Purpose: To recognise that CdTV was the original virus to be isolated, and that this sets the precedent for the species name.

## Annex to taxonomic proposal #7

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#### **Background**

During the 1970s, a disease of tomato prevalent in Sinaloa State, Mexico, was described and referred to as "chino del tomate" (Gallegos, 1978). A culture of the aetiological agent was established, and the associated begomovirus was called Chino del tomate virus (CdTV; Brown and Hine, 1984; Brown *et al.*, 1986; Brown and Nelson, 1988). Subsequently, a begomovirus isolated from tomato growing in the same region of Mexico was found to be distinct from other known viruses on the basis of sequence data, and was referred to as Tomato leaf crumple virus (TLCrV; Paplomatas *et al.*, 1994). No sequence data for CdTV were available at the time, although it was acknowledged that TlCrV was similar to CdTV on the basis of host range and reaction to a panel of monoclonal antibodies (Paplomatas *et al.*, 1994). Full-length nucleotide sequences are now available for both viruses (Brown *et al.*, 1998; 2000; Jiang *et al.*, 1998), and Koch's postulates have been fulfilled for CdTV (Brown *et al.*, 2000). Sequence comparison indicates that the DNA A components of the viruses share 97.3% identity, implying that they should be considered as strains of the same species according to established demarcation criteria. Hence, the original name assigned to the virus, CdTV, should take precedence over TlCrV, and TlCrV should be designated as a strain of CdTV. It is proposed that the virus isolates adopt the following names:

<i>Chino del tomate virus</i>		CdTV
(previously Tomato leaf crumple virus; ToLCrV)		
Chino del tomate virus	U57458, AF007823	CdTV
(Tomato leaf crumple virus; ToLCrV)		
Chino del tomate virus – [B52]	AF226666	CdTV -[B52]
Chino del tomate virus – [H6]	AF226665	CdTV -[H6]
Chino del tomate virus – [H8]	AF226664	CdTV -[H8]
Chino del tomate virus – [IC]	AF101476, AF101478	CdTV -[H8]

#### **References**

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