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ICTV – Plant Virus Subcommittee

Study Group on Geminiviruses

2002.P111.02: To change the name of the species *Althea rosea enation virus* (AREV) to *Hollyhock leaf crumple virus* (HLCrV)

Date: 19th 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 *Althea rosea enation virus* (AREV) to *Hollyhock leaf crumple virus* (HLCrV)

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

Annex to taxonomic proposal #8

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Background

During the late 1990s, Abdel-Salam *et al.* (1998) identified a begomovirus in hollyhock (*Althea rosea*) originating from Egypt, which they named Hollyhock leaf crumple virus (HLCrV). This work was based on biological characteristics of virus. Subsequently, derivation of a full-length DNA A sequence (Bigarré *et al.*, 2001) demonstrated that a virus isolated from the same region was distinct from other known species, and was given the name *Althea rosea enation virus* (AREV; accession number AF014881). The species name was accepted by the ICTV in the Seventh Report. Subsequently, the DNA A sequence of a second isolate from the same region was established and deposited in the database (accession number AY036009) under the name Hollyhock leaf curl virus. The two virus isolates share 99% sequence identity. More recently, the DNA A sequence of the original virus (HLCrV) has been established (R.W. Briddon, unpublished). It shares 90% sequence identity with the other viruses, and therefore should be considered as another isolate of the same species according to established demarcation criteria. Hence, the original name assigned to the virus, HLCrV, should take precedence over both AREV and HLCuV, and AREV and HLCuV should be designated as isolates of HLCrV. This has the added advantage of avoiding incorporation of a formal italicised plant species name into the virus species name.

It is proposed that the virus isolates adopt the following names:

<i>Hollyhock leaf crumple virus</i>		HLCrV
Hollyhock leaf crumple virus - [Giza] (<i>Althea rosea</i> enation virus; AREV)	AF014881	HLCrV-[Giz]
Hollyhock leaf crumple virus - [Cairo] (Hollyhock leaf curl virus; HLCuV)	AY036009	HLCrV-[Cai]

References

- Abdel-Salam, A.M., El-Shazly, M. and Thouvenel, J.C. (1998). Biological, biochemical and serological studies on hollyhock leaf crumple virus (HLCrV): a newly discovered whitefly transmitted geminivirus. *Arab Journal of Biotechnology* **1**, 41-58.
- Bigarré, L., Chazly, M., Salah, M., Ibrahim, M., Padidam, M., Nicole, M., Peterschmitt, M., Fauquet, C. and Thouvenel, J.C. (2001). Characterization of a new begomovirus from Egypt infecting hollyhock (*Althea rosea*). *European Journal of Plant Pathology* **107**, 701-711.