

- C-34 Characteristics of *Cucumber mosaic virus* infecting pine wood cone flower (*Rudbeckia bicolor*) in Korea.** Mi-Kyeong Kim¹, Jin-Woo Park¹, Su-Heon Lee¹, Sug-Ju Ko², Yoichi Takanami³, Hong-Soo Choi¹, and Byeong-Jin Cha⁴
¹National Institute of Agricultural Science and Technology(NIAST), Suwon 441-707, Korea; ²National Alpine Agricultural Experiment Station, Pyongchang 232-950, Korea; ³Faculty of Agriculture, Graduate School of Kyushu University, Hakozaki, Fukuoka 812-8581, Japan; ⁴Department of Agricultural Biology, Kangwon National University, Chuncheon 200-701, Korea.

A virus causing yellow mosaic, sometimes fern leaves, and malformation symptoms on *Rudbeckia bicolor* was prevalent around Pyeongchang, Korea. The causal virus was identified as *Cucumber mosaic virus*(CMV-RB) and characterized based on biological, serological and molecular analysis. CMV-RB caused mosaic on *Nicotiana benthamiana*, *Nicotiana tabacum*, *Capsicum annuum*, and *Lycopersicon esculentum*, whereas no symptoms on 3 pumpkin varieties. CMV-RB reacted strongly with anti-CMV. Electron microscopy revealed isometric particles of 28 - 30nm in length from the purified virus. In order to ascertain their taxonomic identity, The CMV-RB RNA genome has now been cloned and sequenced.

- C-35 First report of *Tomato bushy stunt virus* infecting tomato in Korea.** Mi-Kyeong Kim, Seon-Gi Jeong, Su-Heon Lee, Jin-Woo Park, Sug-Ju Ko, Hong-Soo Choi and Byeong-jin Cha. ¹National Institute of Agricultural Science and Technology(NIAST), Suwon 441-707, Korea; ²National Alpine Agricultural Experiment Station, Pyongchang 232-950, Korea; ³Faculty of Agriculture, Graduate School of Kyushu University, Hakozaki, Fukuoka 812-8581, Japan; ⁴Department of Agricultural Biology, Kangwon National University, Chuncheon 200-701, Korea.

A new virus-like disease of tomato was observed around Sacheon, Gyeongsangnam-do, Korea. A survey conducted (2004) in the area found disease incidence to range from 5 to 30%. Symptoms of the disease were chlorotic spots, malformation and necrosis on leaves, and chlorotic blotching, rings, and necrosis on fruits. Host range analysis failed to differentiate 4 field isolates collected from tomatoes showing different symptoms. Necrotic spots were observed in *Nicotiana tabacum* Xanthi-nc., *Vicia fava*, and *Gomphrena globosa*. Chlorotic spot and mosaic symptoms were produced on *Datura stramonium*, *Capsicum annuum*, *Lycopersicon esculentum*. Ultrathin sections revealed