



## A new host record for *Uromyces mucunae* on *Mucuna sanjappae*

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### Abstract

The rust was recorded for the first time on *Mucuna sanjappae* Aitawade & S. R. Yadav. Present paper reports *M. sanjappae* as new host record for *Uromyces mucunae* Rabenh.

**Key words-** *Mucuna sanjappae*, new host record, rust, *Uromyces mucunae*.

*Mucuna* is one of the important genera of family Fabaceae. It is one of the important sources of the toxic compound 3, 4 – dihydroxy-L-phenylalanine (L-DOPA). In *Mucuna* L-DOPA content is significantly proved to be useful for treatment of neurodegenerative disorder. During field visits, the authors came across infected plants of *Mucuna sanjappae* Aitawade & S. R. Yadav. Small, irregular black spots occurred on mature leaves covering the whole lower surface. Infected leaves were collected from diseased plants and brought to the laboratory. Thin sections through spots were made to examine the fungus. The fungus showed characters as: telia hypophyllous, scattered, minute, punctiform, pulverulent, blackish-brown; urediniospores intermixed, globose or sub-globose, densely verrucose-echinulate, subhyaline, 18–22 µm in diam.; paraphyses clavate, curved, hyaline; teliospores globose or depressed globose, densely verrucose, chestnut-brown, 18–22 µm in diam.; pedicels thick, hyaline, longer than spores. Based on the above characters, the disease causing fungus was identified as *Mucuna* rust: *Uromyces mucunae* Rabenh. and confirmed by Prof. S. S. Kamble, plant pathologist, Department of Botany, Shivaji University, Kolhapur. A specimen was deposited in NFCCI center, Agharkar Research Institute, Pune (AMH-NFCCI- 2003). In 1971, Laundon & Rainbow reported the rust on *M. pruriens* (L.) DC., while in 1974, Chavan & Patil reported rust on *M. hirsuta* Wight & Arn. caused by *U. mucunae* Rabenh. *Mucuna sanjappae* Aitawade & S. R. Yadav was described only recently, (Aitawade & Yadav, 2012) from a restricted region of Pune district, India. Till now there are no records of any disease on *M. sanjappae*. and our report is considered to be a new host record for the rust *U. mucunae*.

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