Short communication

Flavonoids of *Tagetes stenophylla* Robinson (Asteraceae) as taxonomic markers

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1. Subject and source


Voucher specimens are deposited in the Darwinian Herbarium (Buenos Aires, Argentina) and the Miguel Lillo Herbarium (Tucumán, Argentina).

2. Previous work

None.

3. Present study

The following flavonoids were identified in the aerial parts of *Tagetes stenophylla*: quercetagetin, patuletin, patuletin 7-glucoside, isorhamnetin, isorhamnetin
3-galactoside and isorhamnetin 7-glucoside. The results were supported by all voucher specimens cited.

Separation and identification of compounds were carried out by CC, PC, TLC and UV-VIS spectroscopy techniques, based on procedures described by Mabry et al. (1970) and by Markham (1982), and have been described in previous papers (Abdala de Israilev and Seeligmann, 1983; Abdala de Israilev et al. 1991).

4. Chemosystematic significance

Morphology and flavonoid chemistry suggest that *T. stenophylla* is related to Argentine species. The flavonoids quercetagetin, patuletin and/or their glycosides, which characterise Argentine species of *Tagetes* (Abdala, 1989), have also been found in this study.

*T. stenophylla* might be most closely allied to three north west Argentine species (Abdala and Seeligmann, 1983, 1985) where the flavonoid isorhamnetin and/or its glycosides, have also been detected.

Acknowledgements

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References

Abdala, L. R., 1989 Distribución de las agliconas de flavonoides en especies argentinas de Tagetes y su significado quimiosistemático, Tesis Doctoral, Universidad Nacional de Tucumán, Argentina.