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Systematics

Jabaily, Rachel [1], Shepherd, Kelly [2], Gardner, Andrew [3], Sessa, Emily [4].

Phylogeny informs the taxonomic revision of *Goodenia sensu lato* (Goodeniaceae).

The large clade of *Goodenia sensu lato* within the primarily Australian plant family Goodeniaceae was earlier established as paraphyletic, with many resultant generic and infrageneric taxonomic issues to address. To resolve these we utilized a combined approach of Sanger sequencing datasets with dense taxonomic sampling along with multiple datasets from genome skimming for a subset of taxa to create a well resolved, nearly comprehensively sampled phylogeny for the clade. In our taxonomic revision informed by this phylogeny we have opted to expand the definition of *Goodenia* by synonymizing smaller incorporated genera. Subclades within the expanded genus are recognized at various infrageneric levels, supported by morphological synapomorphies.

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- 1 - Colorado College, 14 E Cache La Poudre St, Colorado Spgs, CO, 80903-3243, United States
- 2 - Western Australian Herbarium, Biodiversity and Conservation Science, Department of Biodiversity, Conservation and Attractions, 17 Dick Perry Avenue, Kensington, WA, 6151, Australia
- 3 - California State University Stanislaus, One University Circle, Turlock, CA, 95382, United States
- 4 - University Of Florida, Biology, Box 118525, 521A Bartram Hall, Gainesville, FL, 32611, United States

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