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Disentangling a complex genus: systematics, biogeography and bioactivity of the genus *Phyllanthus* L. and related genera of tribe Phyllanthae (Phyllanthaceae)

Bouman, R.W.

Citation

Bouman, R. W. (2022, December 6). *Disentangling a complex genus: systematics, biogeography and bioactivity of the genus *Phyllanthus* L. and related genera of tribe Phyllanthae (Phyllanthaceae)*. Retrieved from <https://hdl.handle.net/1887/3492676>

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Note: To cite this publication please use the final published version (if applicable).

Curriculum Vitae

Roderick Bouman was born on October 31st, 1991, in Hilversum, the Netherlands. He obtained his bachelor degree in Biology at the University of Utrecht in 2013 and worked for his thesis on the fluctuations in CO₂ levels during the Dark Ages based on lake core samples from Germany. From 2013 to 2015 he studied in Leiden and graduated cum laude for his Masters in Biology with



a specialization in Evolution, Biodiversity and Conservation. While studying for his masters degree, he pursued several of his research interests during two major research internship, one on fossil crinoids and the other on pollination of heathers (*Erica*) in South Africa. After his masters, he worked for a brief research project on the evolution of *Erica* at Naturalis and the University of Mainz supervised by Timo van der Niet and Mike Pirie.

Since 2015 he has been working on his PhD at the Hortus botanicus Leiden in collaboration with Naturalis Biodiversity Center under the supervision of Prof. Paul Keßler and Prof. Peter van Welzen. The focus of this project was the evolution, systematics and bioactivity of the plant genus *Phyllanthus*. The preliminary results of this study and the new classification of *Phyllanthus* were presented to several research groups and at the Flora Malesiana XI conference in Brunei in 2019. While finishing his thesis, he started in 2019 as a taxonomist for cultivated varieties of bulbiferous plants at the Royal General Bulbgrowers Association (KAVB) in Hillegom where he worked for 2.5 years and in November 2021 he has been appointed scientific collection manager at the Hortus botanicus Leiden.

List of Publications

Miller, J. A., Schilthuizen, M., Burmester, M. J. L., van der Graaf, M. L., Merckx, V., Jocqué, M., Kessler, P.J.A., Fayle, T.M., Breeschtoen, T., Broeren, R., **Bouman, R.W.**, Chua, J., Feijen, F., Fermont, T., Groen, K., Groen, M., Kil, N.J.C., Laat de, H.A., Moerland, M.S., Moncoquet, C., Panjang, E., Philip, A.J., Roca-Eriksen, R., Rooduijn, B., Santen van, M., Swakman, V., Evans, M.N., Evans, L.J., Love, K., Joscelyne, S.H., Tober, A.V., Wilson, H.F., Ambu, L.A. & Goossens, B. (2014). Dispatch from the field: ecology of ground-web-building spiders with description of a new species (Araneae, Symphytognathidae). *Biodiversity Data Journal* (2). <https://doi.org/10.3897/BDJ.2.e1076>.

Donovan, S. K., Lewis, D. N., & **Bouman, R. W.** (2014). Echinoid remains preserved in a Derbyshire screwstone (Mississippian, Visean, Brigantian), UK. *Proceedings of the Yorkshire Geological Society* 60(2): 135-139. <https://doi.org/10.1144/pygs2014-353>

Bouman, R. W. & Donovan, S. K. (2015). Biodiversity of Mississippian (Lower Carboniferous) crinoids from Bradford Dale, Derbyshire, UK. *Proceedings of the Yorkshire Geological Society* 60(4): 293-302. <https://doi.org/10.1144/pygs2015-359>

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Bouman, R. W., van Welzen, P. C., Sumail, S., Echevarria, G., Erskine, P. D., Van der Ent, A. (2018). *Phyllanthus rufuschaneyi*: a new nickel hyperaccumulator from Sabah (Borneo Island) with potential for tropical agromining. *Botanical studies* 59 (9): 1–12. <https://doi.org/10.1186/s40529-018-0225-y>

Bouman, R. W., Keßler, P. J. A., Telford, I. R. H., Bruhl, J. J., van Welzen, P. C. (2018). Subgeneric delimitation of the plant genus *Phyllanthus* (Phyllanthaceae). *Blumea* 63(2): 167–198. <https://doi.org/10.3767/blumea.2018.63.02.14>

Bouman, R. W., Keßler, P. J., van Welzen, P. C. (2019). Lectotypification and amended description of *Phyllanthus* (Phyllanthaceae) species described by Koorders from Sulawesi, Indonesia. *Reinwardtia* 18(2): 97–103. <https://doi.org/10.14203/reinwardtia.v18i2.3781>

Verwijs, J. I. M., **Bouman, R. W.**, Van Welzen, P. C. (2019). A taxonomic revision of *Phyllanthus* subgenus *Macraea* (Phyllanthaceae). *Blumea* 64(3): 231–252. <https://doi.org/10.3767/blumea.2019.64.03.05>

Bouman, R. W., Keßler, P. J., Telford, I.R., Bruhl, J.J., Strijk, J.S., Saunders, R. M., van Welzen, P. C. (2020). Molecular phylogenetics of *Phyllanthus* sensu lato

(Phyllanthaceae): Towards coherent monophyletic taxa. *Taxon* 70: 72–98. <https://doi.org/10.1002/tax.12424>

van Welzen, P.C., Arias Guerrero, S., Arifiani, D., Bangun, T.J., **Bouman, R.W.**, Eurlings, M.C., Gushilman, I., Phillipson, P.B., Tabak, I., Winkel, E., Wurdack, K. J. (2021). *Weda*, a new genus with two new species of Euphorbiaceae-Crotonoideae from Halmahera (North Maluku, Indonesia) and phylogenetic relationships of the Australasian tribe Ricinocarpeae. *Journal of Systematics and Evolution* 59(5): 1000–1017. <https://doi.org/10.1111/jse.12581>

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Acknowledgements

With working at so many different departments in Leiden, there are also so many people I wish to thank. Naturally I would like to thank everyone at the Hortus botanicus Leiden for welcoming me and making my time there so great. I especially want to thank my promoters Paul Keßler and Peter van Welzen for their guidance and long support with my PhD. From the botanical garden I would also like to express my gratitude to Hanneke who always invited me to all sorts of projects and activities at the garden and to Gerda for her critical questions.

Both at Naturalis Biodiversity Center and at the Institute Biology of Leiden I had so many people supporting me. The lab staff was always willing to help me and I would like to thank Arjen, Bertie-Joan, Elza, Frank, Marcel and Roland. Thanks also goes out to Young Choi and Kim and all the students at the Natural Products lab for introducing me to the world of metabolites. Esmee Winkel is gratefully acknowledged for the beautiful illustrations of the new species in this thesis.

A heartfelt thanks goes out to everyone who helped me while gathering material and data. The fieldwork was only made possible through the funding from the Alberta Mennega foundation and the help I received from Richard Saunders in Hong Kong, Richard Corlett in Xishuangbanna and Joeri Strijk in Guangxi.

When I first started, the National herbarium was still located in that isolated little corner of the city near the station of Leiden Lammenschans, but it was never boring due to the people there. I would like to thank Nicolien, Roxali, Marnel, Ron, Jan, Paul and Hiltje, Pieter, and Brigitta, Frits, Sylvia, Michael, the late Jan-Frits, Willem, Max and my office roommate the late Peter Hovenkamp for making my time there so enjoyable.

My thanks also goes out to my fellow friends and fellow PhD students Andres, Kevin, Panos, Werner, Lizzie, Hector, Vicky, Dewi, Nienke, Ryan, Le Qin, Deyi, Marcel, Mehrdad, Leon my old “herbarium crew” of Mega, Izu, Dul, Saroj, Renyong and Richa and everyone else. I also want to thank my wonderful students Janna, Gerry and Aninda for their valuable help with tackling these tiny-flowered plants.

To my dear friends from my hometown, Raymond, Emma, Darius and Rogier, thank you for listening to my ramblings and all your support. A special thanks goes to my girlfriend Eka Iskandar who always stood by me during happy and sad moments and who I could always invite to go out for a walk to distract ourselves. Finally, I would like to thank my parents and the rest of my family for their love and support while I was finishing my studies.