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Author: Wahyuni, D.S.C. Title: Thrips resistance in gladiolus: An eco-metabolomic approach Issue Date: 2021-01-12 I would like to thank the Directorate General of Higher Education for providing me with a BLN-DIKTI scholarship program. I am grateful to Sebelas Maret University for supporting me during my study. I am thanking the Dutch Gladiolus breeders Gebr. Hermans and VWS B.V. (Alkmaar, The Netherlands) for providing the different Gladiolus varieties. Gerda Lamers is thanked for her technical assistance in microscopy. Thanks to all my colleagues in the Plant Ecology and Phytochemistry as well as in the Natural Products Laboratory for their support during my study in Leiden. Special thanks to my family, Djudjuk Rachmanto my husband and my children Nabila Raissa Rahma, Basheera Sahila Rahma and Arkhan Maulana Ar-Rahman: Thank you for your support and understanding during my study. Dinar Sari Cahyaningrum Wahyuni was born on May 20th 1980 in Malang Indonesia. She obtained her bachelor degree at the Pharmacy Department of Gadjah Mada University in 2003. The focus of her bachelor study was the cytotoxicity of alkaloid compounds isolated from sponges originating from Bunaken Island. She subsequently obtained a Master degree at Gadjah Mada University in 2006. Her research project investigated the *in-vitro* bio-activity of compounds isolated from the *Eurycoma longifolia* rhizome against macrophage phagocytosis. In 2005, she joined the Sebelas Maret University as a staff member of the Pharmacy Department in the Mathematics and Natural Sciences Faculty.

She was awarded BLN-DIKTI scholarship in 2009 to obtain a PhD degree at the Plant Ecology and Phytochemistry Department of the Institute Biology Leiden (IBL), part of the faculty of Science at Leiden University under the supervision Prof. Peter Klinkhamer and Prof. Rob Verpoorte. During this time, she conducted laboratory experiments mainly in NMR metabolomics and investigated on plant-insect interactions. During her PhD he attended the annual International Metabolomics Workshop conducted by Natural Products Laboratorium at Leiden University as well as the Symposium on Insect-plant Interactions regularly. In 2013, she took the opportunity to conduct an internship at QIAGEN GmbH-Germany, Düsseldorf (Germany) within the Marie-Curie Project Research Fellowship Programme PhD exchange to develop a fast method to remove PCR inhibitors during DNA isolation.

Currently, as staff member of the Pharmacy Department at Sebelas Maret University she is a lecturer in Natural Products. As such she is involved in developing a metabolomics platform for pharmaceutical ingredients. She also provides pharmaceutical consultancies for a traditional medicine enterprise, PJ. Suti Sehati. Boachon, B.,Junker, R.R, Miesch, L.,Bassard, J., Höfer, R., Caillieaudeaux, R., Seidel, D.E., Lesot, A., Heinrich, C., Ginglinger, J., Allouche, L, Vincent, B., **Wahyuni, D.S.C.**, Paetz, C.,Beran, F., Miesch, M., Schneider, B., Leiss, K., Werck-Reichnart, D., (2015) 'CYP76C1 (Cytochrome P450)-mediated linalool metabolism and the formation of volatile and soluble linalool oxides in Arabidopsis flowers: a strategy for defense against floral antagonists'. *The Plant Cell*, 27: 2972-2990.

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