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Evolutionary diversification and historical biogeography of orchidaceae in Central America with emphasis on Costa Rica and Panama

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Curriculum Vitae

Diego G. Bogarín Chaves was born on October 15th, 1982, in San José, Costa Rica, and grew up in Heredia Province. During his childhood at age 10, he developed a strong interest in orchids. Each family trip was a means to explore the rich Costa Rican ecosystems in search of different orchids species. At 12, he followed a free course “Introduction to Orchidology” at the National University of Costa Rica. After completing his secondary studies at Liceo Samuel Sáenz Flores in Heredia, his growing interest in orchids led him to study biology at the University of Costa Rica, where he obtained his B.Sc. degree in 2006. In 2001 during his studies, he became involved at the Lankester Botanical Garden (JBL), first, as a volunteer and, later, as an assistant of research in the systematic orchid projects led by his mentor and great friend, Franco Pupulin. With Franco, he witnessed



the beginnings of the transformation of the JBL into an active orchid research center in the Neotropics. With the main goal of documenting the vast orchid flora of Costa Rica, Diego learned from his mentor the capacity of studying orchid species scientifically. This is why he contributed to several floristic and monographic research projects, describing more than 80 species of Neotropical orchids to date in approximately 90 scientific articles. During this time, Diego also supported new students, conducted extensive fieldwork, and was in charge of the orchid collections until the establishment of the JBL herbarium.

Since August 2005, the University of Costa Rica hired Diego as a researcher based at Lankester Botanical Garden. He first worked on the project “Conservation and Monitoring of Mesoamerican Orchids” in collaboration with the Royal Botanic Gardens, Kew, UK, where he participated in the development of DNA barcodes for Costa Rican orchids at the Jodrell Laboratory and digitized part of the orchid herbarium types at Kew. Later, in 2010, he completed his M.Sc. degree at the UCR under the supervision of Dr. Robert L. Dressler on systematics of the orchid genus *Campylocentrum*. In 2012, Diego met his co-promotor, Dr. Barbara Gravendeel, who visited JBL as part of the research activities of Adam Karremans’ Ph.D. project. At that time, Dr. Gravendeel encouraged him to apply for a doctorate under her supervision to study the evolution of the species-rich genus *Lepanthes*. After obtaining a scholarship from the University of Costa Rica, Diego traveled to the Netherlands in September 2015 to begin his Ph.D. project at Naturalis Biodiversity Center and Leiden University under the supervision of Dr. Gravendeel and Dr. Erik Smets. After obtaining his doctorate, Diego will continue to work as a researcher at JBL and take charge of the chair of orchidology at the School of Biology of UCR. His main future research projects will be focused on the biotic and abiotic factors that shaped the rich orchid flora of southern Central America by applying bioinformatics, genomics, next-generation sequencing, taxonomy, and systematics. Diego is also interested in orchid in-situ conservation and the development of a research center at the herbarium UCH, at the Autonomous University of Chiriquí, Panama, where he is a Research Associate.

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