



Plant hunter Hans Nooteboom passed away (1934–2022)

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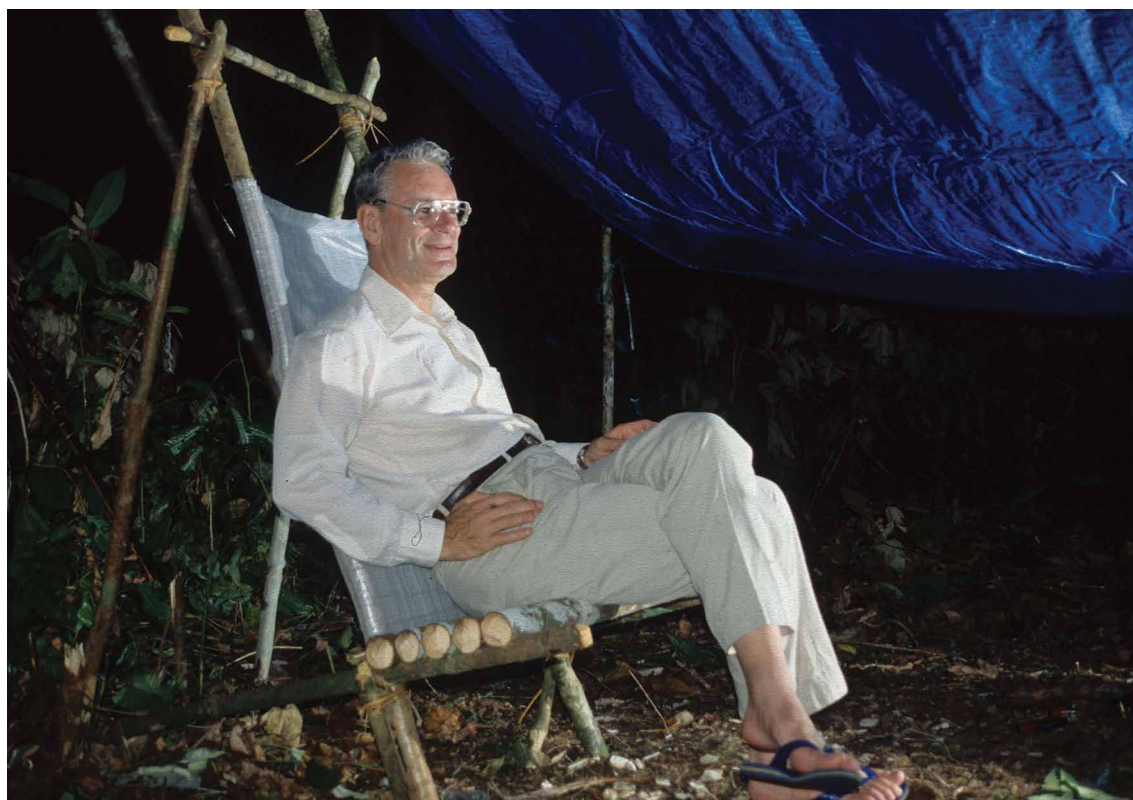


Fig. 1 Hans Nooteboom on expedition in the Aru Islands, 1993, resting after a day of collecting. Photo likely made by Max van Balgooi.

Hans Peter Nooteboom passed away on Wednesday 20 April 2022, at the age of 87 after a long and distinguished career in systematic botany. This obituary borrows heavily from a privately published autobiography (Nooteboom 2017) and a laudatory paper published on the occasion of his 80th birthday (Baas et al. 2014).

Hans was born in Waingapu, on the island of Sumba (Indonesia; then still the Dutch Indies) on 2 July 1934, where his father was a civil servant. In 1939 the family went on leave to the Netherlands, but could never return to Indonesia due to the Second World War and an accident that disabled his father for further civil service.

Hans attended elementary school and highschool in Leiden and Rotterdam. Before embarking on his study of biology in Leiden

he first fulfilled his military service, ending as an officer in the anti-aircraft artillery. For his MSc he studied olfactory orientation in Isopods, worked on *Fabaceae* (his first publication) and the chemotaxonomy and leaf anatomy of the *Simaroubaceae*, a then still polyphyletic assemblage of genera, presently monophyletically classified in other families. He obtained his teacher's degree and finished his MSc with honours (12 December 1961). In the meantime Hans was already teaching in a grammar school (1959 till 1974), also during his PhD study on the old-world representatives of the *Symplocaceae*. He successfully defended his thesis in 1975. The *Simaroubaceae* and *Symplocaceae* were the first families Hans contributed to Flora Malesiana, a project aiming to describe the flora of the Malesian area (roughly the triangle Malaysia – The Philippines – Papua New Guinea, including Indonesia) in two series, one for the Angiosperms and Gymnosperms and the second for the Ferns and Fern allies. In fact, Hans was one of three authors who ever published species with a multi-ranked infraspecific classification in Flora Malesiana. Hans' circumscription and

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classification of *Symplocos cochinchinensis* (Lour.) S.Moore is legendary (see below).

By then Hans was employed in the Laboratory for Experimental Plant Systematics of Leiden University under Professor Hegnauer. He worked there from 1961 till 1977, where one of his major tasks was to teach plant taxonomy and related topics to students of various grades. In 1977 he became senior researcher in the Rijksherbarium, then still part of Leiden University, under Professor van Steenis. His first task was to complete the treatment of the *Cyperaceae* for Flora Malesiana, of which the revision of the species rich genus *Carex* was not yet finished by the late Dr. J.H. Kern. Other contributions to the first series of Flora Malesiana were the *Magnoliaceae* (this time completing and redoing the work of Dr. J.E. Dandy of the Natural History Museum in London) and the *Linaceae* and *Ctenolophonaceae*. Hans then volunteered to change to ferns, and for the second series of Flora Malesiana he delivered two big parts, the family *Davalliaceae* and part of the *Polypodiaceae*. Hans is the only author who published in both series of Flora Malesiana. Hans was very productive, he made (alone or in collaboration) 206 new name combinations and described 104 new taxa, these ranged from new sections in the genus *Magnolia* Plum. ex L. to the subspecies and varieties in *Symplocos cochinchinensis*. The quality of his work was excellent as noted by Baas et al. (2014): quite often his broad ('Steenisian') alpha-taxonomic species and genus concepts were later largely confirmed by molecular based phylogenies. Examples mentioned are the merger of the genera *Leptochilus* Kaulf. (*Polypodiaceae*) and *Davallia* Sm. (*Davalliaceae*), lumping c. 50 names under *Davallia repens* (L.f.) Kuhn, and a broad concept of *Magnolia*. Hans also contributed the families he revised to other local (e.g., national) floras, like those of China, Indochina (Cambodia, Laos & Vietnam), New Caledonia, Peninsular Malaysia, Sri Lanka, Taiwan, and Thailand. Hans remained interested in his former work and as an expert he was often asked to join in the publication of new species (see his publication list underneath).

In his autobiography Hans portrays himself as a plant hunter, and indeed, he participated or organised many expeditions and field trips in mainly east and southeast Asia (Thailand, Singapore, Java, Borneo (Sabah, Sarawak, Kalimantan), Sri Lanka, Andaman Islands, Buru, China, Myanmar, Aru Archipelago). The Leiden database shows that he made 4822 collections as first collector and 238 as additional collector. In the beginning the plants were mainly collected in Europe, later especially in SE Asia. Hans also attended many symposia with their additional field trips and was happy when he was invited as an expert to come and collect or give advice. During his travels he made many friends and acquaintances, who in turn found a hospitable home with Hans and his wife Heleen, when visiting Leiden.

Hans was engaged in many societal and outreach activities. He was a long term activist in the union for university staff. At the beginning of his career, when still working in the Laboratory for Experimental Plant Systematics Hans was already a member of the Leiden University Council and of the council of the Faculty of Sciences during several years. When working in the Rijksherbarium Hans somehow took over the task of nature conservation from the late Dr. M. Jacobs and became involved in the founding of 'Tropenbos International', but also participated in the International Timber Trade Organisation (ITTO), the Global Environment Facility (GEF), the Dutch Commission for International Nature Conservation ('Van Tienhoven Foundation'), and the Dutch scientific committee of the Convention on International Trade in Endangered Species (CITES).

Hans was one of the first to start using a personal computer, in those days with 8 inch floppy discs as memory and data holders. He was also among the first in the Rijksherbarium to use software to create identification keys. When he became editor of Flora Malesiana he continued this work by adding CD-Roms with identification keys and extra images to each new volume and also by placing the data on internet (unfortunately no longer accessible).



Fig. 2 Hans Nooteboom in his working room in the Rijksherbarium, 1978. Photo by Ruth van Crevel.



Fig. 3 Hans Nootboom, c. 1995. Photo by Heleen de Vos, his wife.

Hans was for many years editor of two major publications of the Rijksherbarium: the journal *Blumea* and *Flora Malesiana*, to which he contributed so much himself as an author as well. Editing and making CD-Roms for *Flora Malesiana* were the last tasks that he performed when still an honorary researcher after his retirement. The transition from Rijksherbarium (then National Herbarium of the Netherlands) to Naturalis Biodiversity Center did not meet with Hans' standards of research and he terminated the cooperation.

The two major hobbies of Hans were sailing and wine. His father made him into an excellent sailor and Hans in turn, did teach his children and other youngsters the art of sailing. Hans had various sailing boats and also made one himself (one on a balcony with just enough space to walk around it). In his house in the Roodenburgerstraat in Leiden Hans created a special, isolated room for his wine, which he filled with yearly purchases made in France. Hans became a member of '*La Commanderie de la dive Bouteille*', being enthroned by his friend Pierre Jamet, grand master of the order.

Hans had two sons, Sibout and Menno, and a daughter, Marije. Our thoughts are with them and their families.

REFERENCES

- Baas P, Hovenkamp PH, Veldkamp JF. 2014. Hans Nootboom 80 years. *Blumea* 59: i–ii.
 Nootboom H. 2017. Life of a planthunter. Private publication (available via siboutnootboom@gmail.com).

EPONYMY

- Bridelia nooteboomii* Chakrab., Journal of Economic and Taxonomic Botany 5 (1984) 949. *Phyllanthaceae*.
Cinnamomum nooteboomii Kosterm., Reinwardtia 10 (1988) 446. *Lauraceae*.
Elaeocarpus nooteboomii Coode, Kew Bulletin 53 (1998) 95. *Elaeocarpaceae*.
Magnolia × *nooteboomiana* Geerinck, Taxonomania 34 (2013) 6. *Magnoliaceae*.
Saurauia nooteboomii K.M.Wong, The genus *Saurauia* in Borneo (2017) 215. Natural History Publications (Borneo), Kota Kinabalu. *Saurauiaceae*.

PUBLICATIONS BY HANS PETER NOOTEBOOM

(compiled by Cees Lut; excluding book reviews)

- 1961
 – (with Van Meeuwen MS, Van Steenis CGGJ) Preliminary revisions of some genera of Malaysian Papilionaceae. *Reinwardtia* 5: 431–456.
- 1962
 – Generic delimitation in Simaroubaceae tribus Simaroubeae and a conspectus of the genus *Quassia* L. *Blumea* 11: 509–528.
 – Simaroubaceae. In: Van Steenis CGGJ (ed), *Flora Malesiana* Ser. I, Spermatophyta 6: 193–226. Wolters-Noordhoff Publishing, Groningen
- 1963
 – (with Kuenen DJ) Olfactory orientation in some land-isopods (Oniscoidea, Crustacea). *Entomologia Experimentalis et Applicata* 6: 133–142.
- 1966
 – Flavonols, Leucoanthocyanins, Cinnamic acids, and Alkaloids in dried leaves of some Asiatic and Malesian Simaroubaceae. *Blumea* 14: 309–315.
- 1967
 – The taxonomic position of Irvingioideae, Allantospermum Forman, and Cyrtolopsis Kuhl. *Adansonia* Sér. 2, 7: 161–168.
- 1969
 – Symplocaceae of New Caledonia. *Bulletin du Muséum National d'Histoire Naturelle* Sér. 4, sect. B. *Adansonia* 11: 295–306.
- 1972
 – Simaroubaceae. Addenda, corrigenda et emendenda. In: Van Steenis CGGJ (ed), *Flora Malesiana* Ser. I, Spermatophyta 6: 968–972.
- 1974
 – *Ailanthus fordii* Nootboom, an endemic species of Hong Kong refound. *Memoirs of The Hong Kong Natural History Society* 9: 16–17.
- 1975
 – Revision of the Symplocaceae of the Old World, New Caledonia excepted (Thesis). University Press, Leiden (335 pp.).
- 1977
 – Symplocaceae. In: Van Steenis CGGJ (ed), *Flora Malesiana* Ser. I, Spermatophyta 8: 205–274. Sijthoff & Noordhoff International Publishers, Alphen aan den Rijn.
- 1978
 – A taxonomic revision of the Malesian and Australian species of *Uncinia* (Cyperaceae). *Blumea* 24(2): 511–520.
 – (with Vidal JE) Symplocaceae. In: Aubréville A, Leroy J-F (eds), *Flore du Cambodge, de Laos et du Viêt Nam* 16: 1–75. Muséum d'Histoire Naturelle, Paris.
 – Symplocaceae. In: Li HL, Liu TS (eds), *Flora of Taiwan* 4: 112–132. Epoch Publishing, Taipei.
- 1979
 – (with Kern JH) Cyperaceae – II. In: Van Steenis CGGJ (ed), *Flora Malesiana* Ser. I, Spermatophyta 9(1): 107–187. Martinus Nijhoff/Dr W. Junk Publishers, The Hague, Boston, London.
 – A new *Hypolytrum* (Cyperaceae) from Middle Andaman. *Blumea* 25: 319.
- 1980
 – Symplocacées. In: Aubréville A, Leroy J-F (eds), *Flore de la Nouvelle Calédonie et Dépendances* 9: 135–158. Muséum d'Histoire Naturelle, Paris.
 – Review of *Symplocos* (Symplocaceae) from New Caledonia. *Blumea* 26: 411–415.
 – A new *Symplocos* (Symplocaceae) from Sumatra. *Blumea* 26: 416–417.
- 1981
 – Symplocaceae. In: Dassanayake MD (ed), *A revised handbook to the flora of Ceylon* 3: 454–478. Balkema, Rotterdam.
 – A revision of the Australian species of *Symplocos* (Symplocaceae). *Brunonia* 4: 309–326.
 – Simaroubaceae. In: Smitinand T, Larsen K (eds), *Flora of Thailand* 2(4): 439–447. Tistr Press, Bangkok.
 – Symplocaceae. In: Smitinand T, Larsen K (eds), *Flora of Thailand* 2(4): 448–464. Tistr Press, Bangkok.
- 1983
 – Bukit Raya Expedition, preliminary report. Internal report Rijksherbarium, Leiden (23 pp.).

- 1984
- Magnoliaceae. In: Van Steenis CGGJ, De Wilde WJJO (eds), *Flora Malesiana Ser. I, Spermatophyta* 10: 561–605. Kluwer Academic Publishers, Dordrecht, Boston, London.
 - (with Van Hooren AMN) Linaceae. In: Van Steenis CGGJ, De Wilde WJJO (eds), *Flora Malesiana Ser. I, Spermatophyta* 10: 607–619. Kluwer Academic Publishers, Dordrecht, Boston, London.
 - (with Van Hooren AMN) Ctenolophonaceae. In: Van Steenis CGGJ, De Wilde WJJO (eds), *Flora Malesiana Ser. I, Spermatophyta* 10: 629–634. Kluwer Academic Publishers, Dordrecht, Boston, London.
 - (with Van Hooren AMN) Linaceae and Ctenolophonaceae especially of Malesia, with notes on their demarcation and the relationships with Ixonanthaceae. *Blumea* 29: 547–563.
 - *Symplocos* (Symplocaceae) from the Bukit Raya. *Blumea* 30: 73–76.
 - *Dugandiodendron* (Magnoliaceae) erroneously described. *Taxon* 33: 696–698.
 - Access to the crown of canopy trees. *Flora Malesiana Bulletin* 37: 46.
 - Op de drempel van een drama, ontbossing in Indonesië. *Global Forest Magazine* 1: 13–17.
- 1985
- Notes on Magnoliaceae with a revision of *Pachylarnax* and *Elmerrillia* and the Malesian species of *Manglietia* and *Michelia*. *Blumea* 31: 65–121.
- 1986
- Additions to Bornean Symplocaceae. *Blumea* 31: 277–280.
- 1987
- Notes on Magnoliaceae II. Revision of *Magnolia* sections *Maingola* (Malesian species), *Aromadendron*, and *Blumiana*. *Blumea* 32: 343–382.
 - *Laumoniera*, a new genus of Simaroubaceae from Sumatra. *Blumea* 32: 383–384.
 - An updated classification of Magnoliaceae. *Magnolia* (Journal of the Magnolia Society) 23: 1–8.
- 1988
- A new species of *Symplocos* (Symplocaceae) from Sulawesi. *Blumea* 33: 263–264.
 - What should botanists do with their time? *Taxon* 37: 134.
- 1989
- Symplocaceae of New Caledonia. *Bulletin du Muséum National d'Histoire Naturelle* (Paris), sect B. *Adansonia* 11: 295–306.
- 1991
- Destruction of tropical rainforests and its consequences. *Malayan Nature Journal* (Malaysia) 45: 69–73.
- 1992
- Notes on Davalliaceae I. The genera *Araiostegia*, *Davallodes*, *Leucostegia*, and *Gymnogrammitis*. *Blumea* 37: 165–187.
 - A point of view on the species concept. *Taxon* 41: 318–320.
 - La forêt tropicale: son importance vitale. In: *Des Forêts Sous la Coupe* (Les forêts tropicales: richesses et fragilités). ORCADES–FRANCE: 1–10.
- 1993
- (with Chen BL) Notes on Magnoliaceae III: The Magnoliaceae of China. *Annals of the Missouri Botanical Garden* 80: 999–1104.
 - Magnoliaceae. In: Kubitzki K, Rohrer JG, Bittrich V (eds), *The Families and Genera of Vascular Plants 2. Flowering Plants – Dicotyledons*: 391–401. Springer Verlag, Berlin, New York.
- 1994
- Notes on Davalliaceae II. A revision of the genus *Davallia*. *Blumea* 39: 151–214.
 - *Michelia banghamii* (Magnoliaceae), a new species from Sumatra. *Blumea* 38: 334.
 - Proposals to reject *Magnolia tomentosa* (Thymelaeaceae) and conserve *Magnolia kobus* (Magnoliaceae) with a conserved type. *Taxon* 43: 467–468.
- 1996
- Davalliaceae of China. *Acta Phytotaxonomica Sinica* 34: 162–179.
 - *Microsorium aurantiacum*, a new species of microsoroid ferns. *Blumea* 41: 17–18.
 - (with Wu YF) Symplocaceae. In: Wu ZY, Raven PH (eds), *Flora of China* 15: 235–252. Science Press, Beijing, Missouri Botanical Garden Press, Saint Louis.
- 1997
- (with Rödl-Linder G) Notes on Davalliaceae III. In: Johns RJ (ed), *Holtum: Memorial volume*: 67–80. Royal Botanic Gardens, Kew.
 - The microsoroid ferns (Polypodiaceae). *Blumea* 42: 261–395.
 - (with Zhang XC) Some new combinations in Plagiogyria (Plagiogyriaceae, Pteridophyta). *Blumea* 42: 483–484.
- 1998
- How to deal with complex species with two examples from East Asian Plants. In: Zhang A, Wu SG (eds), *Floristic characteristics and diversity of East Asian plants. Proceedings of the first international symposium on floristic characteristics and diversity of East Asian plants*, July 25–27, 1996, Kunming, Yunnan, P.R. China: 335–340. China Higher Education Press, Beijing; Springer-Verlag, New York.
 - (with Zhang XC) A taxonomic revision of Plagiogyriaceae (Pteridophyta). *Blumea*, 43: 401–469.
 - (with Hovenkamp PH, Bosman MTM) Microsorium. In: Hovenkamp PH (ed), *Polypodiaceae*. In: Kalkman C, Nootboom HP (eds), *Flora Malesiana Ser. II, Ferns and Fern allies* 3: 90–131. Rijksherbarium/Hortus Botanicus, Leiden.
 - (with Hovenkamp PH) Podosorus. In: Hovenkamp PH (ed), *Polypodiaceae*. In: Kalkman C, Nootboom HP (eds), *Flora Malesiana Ser. II, Ferns and Fern allies* 3: 141–144.
 - Davalliaceae. In: Kalkman C, Nootboom HP (eds), *Flora Malesiana Ser. II, Ferns and Fern allies* 3: 235–276. Rijksherbarium/Hortus Botanicus, Leiden.
 - (with Zhang XC) Plagiogyriaceae. In: Kalkman C, Nootboom HP (eds), *Flora Malesiana Ser. II, Ferns and Fern allies* 3: 295–316. Rijksherbarium/Hortus Botanicus, Leiden.
- 1999
- The microsoroid Polypodiaceae: The genera and species and their delimitation. In: Zhang XC, Shing HS, Chang CR (eds), *Ching Memorial Volume*. China Forestry Publishing House, Beijing.
- 2000
- The family Davalliaceae with full descriptions, interactive keys, synonymy, and pictures of all species. CD ROM – ETI (Expert centre for Taxonomic Identification). ETI, Leiden, Amsterdam.
 - (with Chalermglin P) A new species of *Magnolia* (Magnoliaceae) from Thailand. *Blumea* 45: 245–247.
- 2001
- (with Boonkerd T) A new species of *Microsorium* (Polypodiaceae) from Thailand. *Blumea* 46: 581–583.
 - Species complex or complex species: an example from *Symplocos*. In: Saw LG, Chua LSL, Khoo KC (eds), *Taxonomy: the cornerstone of biodiversity. Proceedings of the 4th International Flora Malesiana Symposium 1998*: 148–153. Forest Research Institute Malaysia, Kuala Lumpur.
- 2002
- (with Chalermglin P) A new species of *Magnolia* (Magnoliaceae) from Thailand. *Blumea* 47: 541–543.
 - (with Kim ST, Park CW, Suh YB) Taxonomic revision of *Magnolia* section *Maingola* (Magnoliaceae). *Blumea* 47: 319–339.
- 2004
- (with Figlar D) Notes on Magnoliaceae IV. *Blumea* 49: 87–100.
 - Symplocaceae. In: Kubitzki K (ed), *The Families and Genera of Vascular Plants 6. Flowering Plants – Dicotyledons* 6: 443–449. Springer Verlag, Berlin, New York.
- 2005
- Additions to Symplocaceae of the old world including New Caledonia. *Blumea* 50: 407–410. (Including a CD-ROM with a complete, updated revision, a list of synonyms, and an interactive illustrated digital key to all the taxa).
 - (with Zhang XC, Xiang QP) A new species of *Selaginella* from Hainan Island, China, with a key to the Hainan species. *Botanical Journal of the Linnean Society* 148: 323–327.
 - Digital illustrated key in *Lucid Phoenix* of Malesian *Ficus*.
 - Digital illustrated key in *Lucid Phoenix* of Malesian *Moraceae*, genera other than *Ficus*.
 - Flora and vegetation of Malesia 150 years after Wallace. In: Tuen AA, Das I (eds), *Wallace in Sarawak –150 year later. Proceedings of an International conference on Biogeography and Biodiversity*: 66. Universiti Malaysia Sarawak, Kota Samarahan.

2007

- Digital illustrated key in *Lucid Phoenix of Malesian Apocynaceae*.
- (with Sam HV) *Ailanthus vietnamensis* (Simaroubaceae): a new species from Vietnam. *Blumea* 52: 555–558.
- (with Chalermglin P) A new species of and a new combination in *Magnolia* (Magnoliaceae). *Blumea* 52: 559–562.

2008

- (with Xia NH, Liu YH) Magnoliaceae. In: Wu ZY, Raven PH, Hong DY (eds), *Flora of China* 7: 48–91. Science Press, Beijing; Missouri Botanical Garden Press, Saint Louis.
- How many genera have Davalliaceae? In: Amoroso VB (ed), *Proceedings of the 4th symposium on Asian Pterodology and Garden Show*: 65–68. Central Mindanao University, Musuan.

2009

- (with Chalermglin P) The Magnoliaceae of Thailand. *Thai Forest Bulletin (Botany)* 37: 111–138.
- (with Pillon Y) A new species of *Symplocos* (Symplocaceae) from Mont Panié (New Caledonia). *Adansonia sér.* 3, 31: 191–196.

2010

- Symplocaceae. In: Kiew R, Chung RCK, Saw LG, et al. (eds), *Flora of Peninsular Malaysia Ser. 2, Seed Plants*, 1: 219–264. Forest Research Institute Malaysia, Kepong.
- Digital illustrated key in *Lucid Phoenix of Malesian Cucurbitaceae*.

2011

- (with Azuma H, Chalermglin P) Molecular phylogeny of Magnoliaceae based on plastid DNA sequences with special emphasis on some species from continental Southeast Asia. *Thai Forest Bulletin (Botany)* 39: 148–165.
- How did Magnolias (Magnoliaceae, Magnolioideae) reach tropical Asia. *Singapore Statistical Bulletin* 63: 299–306.
- Rectification of a wrong name in *Magnolia* (Magnoliaceae). *Blumea* 56: 234.
- (with Chalermglin P) Two *Magnolia* species new to the Flora of Thailand. *Thai Forest Bulletin (Botany)* 39: 166–172.

2012

- Blechnaceae. In: Nootboom HP (ed.), *Flora Malesiana Ser. II, Pteridophyta* 4: 1–84. Nationaal Herbarium Nederland, Naturalis Biodiversity Center, Leiden.
- Hypodematiaceae. In: Nootboom HP (ed.), *Flora Malesiana Ser. II, Pteridophyta* 4: 85–91. Nationaal Herbarium Nederland, Naturalis Biodiversity Center, Leiden.
- Monachosoraceae. In: Nootboom HP (ed.), *Flora Malesiana Ser. II, Pteridophyta* 4: 93–96. Nationaal Herbarium Nederland, Naturalis Biodiversity Center, Leiden.

- Nephrolepidaceae. In: Nootboom HP (ed.), *Flora Malesiana Ser. II, Pteridophyta* 4: 97–122. Nationaal Herbarium Nederland, Naturalis Biodiversity Center, Leiden.
- Pteridaceae subfam. Parkerioideae. In: Nootboom HP (ed), *Flora Malesiana Ser. II, Pteridophyta* 4: 137–144. Nationaal Herbarium Nederland, Naturalis Biodiversity Center, Leiden.
- Magnoliaceae. In: Kiew R, Chung RCK, Saw LG, et al. (eds), *Flora of Peninsular Malaysia Ser. 2, Seed Plants*, 3: 219–247. Forest Research Institute Malaysia, Kepong.

2013

- Hypodematiaceae. In: Parris BS, Kiew R, Chung RCK, et al. (eds), *Flora of Peninsular Malaysia Ser. 1, Ferns & Lycophytes*, 2: 43–50. Forest Research Institute Malaysia, Kepong.
- Davalliaceae. In: Parris BS, Kiew R, Chung RCK, et al. (eds), *Flora of Peninsular Malaysia Ser. 1, Ferns & Lycophytes*, 2: 73–96. Forest Research Institute Malaysia, Kepong.
- (with Brambach F, Culmsee H) *Magnolia sulawesiana* described, and a key to the species of *Magnolia* (Magnoliaceae) occurring in Sulawesi. *Blumea* 58: 271–276.
- (with Zhang XC, Kato M) Selaginellaceae. In: Wu ZY, Raven PH, Hong DY (eds), *Flora of China* 2–3 (Pteridophytes): 37–66. Science Press, Beijing; Missouri Botanical Garden Press, St. Louis.
- (with Zhang XC, Kato M) Dipteridaceae. In: Wu ZY, Raven PH, Hong DY (eds), *Flora of China* 2–3 (Pteridophytes): 116–117. Science Press, Beijing; Missouri Botanical Garden Press, St. Louis.
- (with Zhang XC) Plagiogyriaceae. In: Wu ZY, Raven PH, Hong DY (eds), *Flora of China* 2–3 (Pteridophytes): 128–131. Science Press, Beijing; Missouri Botanical Garden Press, St. Louis.
- (with Yan YH, Qi XP, Liao WB, et al.) Dennstaedtiaceae. In: Wu ZY, Raven PH, Hong DY (eds), *Flora of China* 2–3 (Pteridophytes): 147–168. Science Press, Beijing; Missouri Botanical Garden Press, St. Louis.
- (with Zhang XC, Xing FW, Wang FG, et al.) Hypodematiaceae. In: Wu ZY, Raven PH, Hong DY (eds), *Flora of China* 2–3 (Pteridophytes): 535–540. Science Press, Beijing; Missouri Botanical Garden Press, St. Louis.
- (with Xing FW, Wang FG) Davalliaceae. In: Wu ZY, Raven PH, Hong DY (eds), *Flora of China* 2–3 (Pteridophytes): 749–757. Science Press, Beijing; Missouri Botanical Garden Press, St. Louis.
- (with Zhang XC, Lu SG, Lin YX, et al.) various genera in the Polypodiaceae. In: Wu ZY, Raven PH, Hong DY (eds), *Flora of China* 2–3 (Pteridophytes): 758–850. Science Press, Beijing; Missouri Botanical Garden Press, St. Louis.

2014

- (with Chen CW, Ngan LT, Hidayat A, et al.) First insights into the evolutionary history of the *Davallia repens* complex. *Blumea* 59: 49–58.