

# HUGO J. DE BOER

## PEER-REVIEWED PUBLICATIONS

- See Google Scholar for a full list: **Citations 571, h-factor 11, i10-index 13.**
- Osathanunkul, M., Suwannapoom, C., Ounjai, S., Rora, J.A., Madesis, P., **De Boer, H.J.** 2015. Refining DNA barcoding coupled high resolution melting for discrimination of 12 closely related *Croton* species. PLoS ONE 10(9): e0138888. doi:10.1371/journal.pone.0138888
- Schwallier, R., Raes, N., **De Boer, H.J.**, Vos, R., van Vugt, R., Gravendeel, B. 2015. A phylogenetic analysis of niche divergence in the pitcher plant genus *Nepenthes*. Diversity and Distributions [In Press]. IF = 6.0
- Vincent SFT Merckx, Kasper P Hendriks, Kevin K Beentjes, Constantijn B Mennes, Leontine E Becking, .., **De Boer, H.J.**, .., Menno Schilthuizen. 2015. Evolution of endemism on a young tropical mountain. Nature 524: 347-350. IF = 42.4
- **De Boer, H.J.**, Ichim, M.C., Newmaster, S. 2015. DNA Barcoding and Pharmacovigilance of Herbal Medicines. Drug Safety 38: 611-620.
- Osathanunkul, M., Madesis, P., **De Boer, H.J.** 2015. Bar-HRM for authentication of plant-based medicines: evaluation of three medicinal products derived from Acanthaceae species. PLoS ONE 10.1371/journal.pone.0128476. IF = 4.1
- **De Boer, H.J.**, Steffen, K., Cooper, W.E. 2015. Sunda to Sahul dispersals in Trichosanthes (Cucurbitaceae): A dated phylogeny reveals five independent dispersal events to Australasia. Journal of Biogeography. doi: 10.1111/jbi.12432 IF = 4.9
- Kreziou, A., **De Boer, H.J.**, Gravendeel, B. 2015. Harvesting of salep orchids in northwestern Greece continues to threaten natural populations. Oryx [online first] doi:10.1017/S0030605315000265
- Schwallier, R., **De Boer, H.J.**, Visser, N., van Vugt, R.R., Gravendeel, B. 2015. Traps as treats: a traditional sticky rice snack persisting in rapidly changing Asian kitchens. Journal of Ethnobiology and Ethnomedicine 11: 24. doi:10.1186/s13002-015-0010-x
- Otieno, J.N., Abihudi, S., Veldman, S., Nahashon, M., van Andel, T.R., **De Boer, H.J.** 2015. Vernacular dominance in folk taxonomy: A case study of ethnospecies in medicinal plant trade in Tanzania. Journal of Ethnobiology and Ethnomedicine 11:10. doi:10.1186/1746-4269-11-10
- Sher, H., Aldosari, A., Ali, A., **De Boer, H.J.** 2015. Indigenous knowledge of folk medicines among tribal women in Khyber Pakhtunkhwa, northwestern Pakistan. Journal of Ethnopharmacology 166: 157–167. IF = 2.0
- Ghorbani, A., Gravendeel, B., Zarre, S., **De Boer, H.J.** 2014. Illegal wild collection and international trade of CITES-listed terrestrial orchid tubers in Iran. TRAFFIC Bulletin 26(2): 42-52
- Veldman, S., Otieno, J.N., van Andel, T., Gravendeel, B., **De Boer, H.J.** 2014. Flourishing trade in African orchids. TRAFFIC Bulletin 26(2): 54-58
- Sher, H., Aldosari, A., Ali, A., **De Boer, H.J.** 2014. Economic benefits of high value medicinal plants to Pakistani communities: an analysis of current practice and potential. Journal of Ethnobiology and Ethnomedicine 2014, 10:71 IF = 2.0
- Towns, A., Quiroz, D., Guinee, L., **De Boer, H.J.**, van Andel, T. 2014. Volume, value and floristic diversity of Gabon's medicinal plant markets. Journal of Ethnopharmacology 155: 1184-1193. IF = 3.0
- Van Andel, T., **De Boer, H.J.**, Vandebroek, I., Barnes, J. 2014. Medicinal plants used for menstrual disorders in Latin America, the Caribbean, sub-Saharan Africa, South and Southeast Asia and their uterine properties: a review. Journal of Ethnopharmacology. IF = 3.0
- Ghorbani, A., Naghibi, F., Gravendeel, B., **De Boer, H.J.** 2014. Wild orchid tuber collection in Iran: A wake-up call for conservation. Biodiversity and Conservation 23: 2749-2760. IF = 2.3
- Käfer, J., **De Boer, H.J.**, Mousset, S., Kool, A., Dufay, M., Marais, G.A.B. 2014. Transitions to dioecy and the consequences for lineage diversification in plants. Journal of Evolutionary Biology. doi: 10.1111/jeb.12385. IF = 3.5

- **De Boer, H.J.**, Ouarghidi, A., Abbad, A., Martin, G.J., Kool, A. 2014. DNA Barcoding Reveals Limited Accuracy of Identifications Based on Folk Taxonomy. *PLOS ONE* 9 (1), e84291 IF = 4.1
- **De Boer, H.J.**, Cotingting, C. 2014. Medicinal plants for women's healthcare in Southeast Asia. A meta-analysis reveals both spatial and temporal, extensive, diverse and consistent knowledge. *Journal of Ethnopharmacology* 151: 747-767. IF = 3.0
- Subedi, A., Kunwar, B., Choi, Y., Tao, Y., van Andel, T., Chaudhary, R.P., **De Boer, H.J.**, Gravendeel, B. Medicinal use and trade of wild orchids in Nepal. *Journal of Ethnobiology and Ethnomedicine* 9:64 doi:10.1186/1746-4269-9-64. IF = 2.5
- Ouarghidi, A., Powell, B., **De Boer, H.J.**, Abbad, A., Martin, G. 2012. Species substitution in medicinal roots and possible implications for toxicity in Morocco. *Economic Botany* 66: 370-382. IF = 1.9
- **De Boer, H.J.**, Schaefer, H., Thulin, M., Renner, S. 2012. Evolution and loss of long-fringed petals: A case study using a dated phylogeny of the snake gourds, *Trichosanthes* (Cucurbitaceae). *BMC Evolutionary Biology* 12:1, 108. IF = 3.3
- Kool, A.\*, **De Boer, H.J.\***, Rydberg, A., Kruger, A., Abbad, A., Björk, L., Martin, G. 2012. Molecular Identification of Commercialized Medicinal Plants in Southern Morocco. *PLOS ONE* 7 (6), e39459 \*shared first authors. IF = 4.1
- **De Boer, H.J.**, Lamxay, V., Björk, L. 2012. Comparing medicinal plant knowledge using similarity indices: A case of the Brou, Saek and Kry in Lao PDR. *Journal of Ethnopharmacology* 141: 481-500. IF = 3.0
- **De Boer, H.J.**, Thulin, M. 2012. Synopsis and infrageneric classification of *Trichosanthes* (Cucurbitaceae) based on recent molecular phylogenetic data. *PhytoKeys* 12: 23-33
- Cooper, W.E., **De Boer, H.J.**, 2011. A taxonomic revision of *Trichosanthes* L. (Cucurbitaceae) in Australia, including one new species from the Northern Territory. *Austrobaileya* 8: 364–386.
- **De Boer, H.J.**, Vongsombath, V., Käfer, J., 2011. A fly in the ointment: Evaluation of traditional use of plants to repel and kill blowfly larvae in fermented fish. *PLOS ONE* 6(12): e29521. IF = 4.1
- **De Boer, H.J.**, Lamxay, V., Björk, L., 2011. Steam sauna and mother roasting in Lao PDR: Evaluation of medicinal properties of essential oils of plant species used in postpartum recovery. *BMC Complementary and Alternative Medicine* 11: 128. IF = 2.1
- Vongsombath, V., **De Boer, H.J.**, Pålsson, K., 2011. Keeping leeches at bay: Field evaluation of plant-derived extracts against terrestrial blood-sucking leeches (Haemadipsidae) in Lao PDR. *Acta Tropica* 119: 178-182. IF = 2.8
- Lamxay, V., **De Boer, H.J.**, Björk, L., 2011. Traditions and plant use during pregnancy, childbirth and postpartum recovery by the Kry ethnic group in Lao PDR. *Journal of Ethnobiology and Ethnomedicine* 7:14. doi:10.1186/1746-4269-7-14. IF = 2.5
- Mati, E. **De Boer, H.J.**, 2011. Trade and commercialization of herbal medicine in the Qaysari Market, Kurdish Autonomous Region, Iraq. *Journal of Ethnopharmacology* 133: 490-510. IF = 3.0
- **De Boer, H.J.**, Vongsombath, C., Pålsson, K., Björk, L., Jaenson, G.T., 2010. Traditional repellents against haematophagous invertebrates: A comparative study of plants used in 66 villages in Lao PDR. *Journal of Medical Entomology* 47: 400-414. IF = 1.9
- Mati, E., **De Boer, H.J.**, 2010. An assessment of contemporary knowledge on dyeing plant species and natural dye use in Kurdish Autonomous Region, Iraq. *Economic Botany* 64: 149-160 (Cover article). IF = 1.9
- **De Boer, H.J.**, Lamxay, V. 2009. Plants used during pregnancy, childbirth and postpartum healthcare in Lao PDR: A comparative study of the Brou, Saek and Kry ethnic groups. *Journal of Ethnobiology and Ethnomedicine* 5:25. doi:10.1186/1746-4269-5-25. IF = 2.5
- **De Boer, H.J.**, Hagemann, U., Ericsson, J., Meyboom, R., 2007. Allergic reactions to *Pelargonium*-derived medicines. *Drug Safety* 30: 677-680. IF = 3.7
- Farah, M., Olsson, S., Bate, J., Lindquist, M., Edwards, R., Simmonds, M.S.J., Leon, C., **De Boer, H.J.**, Thulin, M. 2006. Botanical Nomenclature in Pharmacovigilance and a Recommendation for Standardisation. *Drug Safety* 29: 1023-1029. IF = 3.7
- **De Boer, H.J.**, Thulin, M., 2006. Lectotypification of *Callicocca ipecacuanha* Brot. and neotypification of *Cephaelis acuminata* H.Karst., with reference to the drug Ipecac. *Taxon* 54(4): 1080-1082. IF = 2.8

- **De Boer, H.J.**, Kool, A., Broberg, A., Mziray, W., Hedberg, I., Levenfors, J., 2005. Anti-fungal and anti-bacterial activity of some herbal remedies from Tanzania. *Journal of Ethnopharmacology* 96: 461-469. IF = 3.0
- Maas, M.F.P.M., **De Boer, H.J.**, Debets, A.J.M., Hoekstra, R.F. 2004. The mitochondrial plasmid pAL2-1 reduces calorie restriction mediated life span extension in the filamentous fungus *Podospora anserina*. *Fungal Genetics and Biology* 41: 865-871. IF = 3.3

## BOOK CHAPTERS

- Van Andel, T., **De Boer, H.J.**, Towns, A. 2015. Medicinal plants used for menstrual disorders in developing countries and their uterine properties. In: Heinrich, M., Jäger, A. *Ethnopharmacology – a Reader*. Wiley & Sons.
- Veldman, S., Otieno, J.N., Gravendeel, B., Van Andel, T., **De Boer, H.J.** 2014. Conservation of endangered wild harvested medicinal plants – Use of DNA barcoding. In: *Novel Plant Bioresources: Applications in Food, Medicine and Cosmetics* (Edited by A. Gurib-Fakim). Wiley & Sons, London. ISBN: 978-1-118-46061-0
- **De Boer, H.J.**, 2010. Local Awareness of Scarcity and Endangerment of Medicinal Plants in Roussenski Lom Natural Park in Northern Bulgaria. In: Pardo-de-Santayana, M., Puri, R.K. (Editors). *Ethnobiology in the New Europe*.
- **De Boer, H.J.**, 2009. African plants as antipathogen agents: Clinical and experimental evidence. In: Watson, R., Preedy, V. *The Encyclopedia of Herbal Medicine in Clinical Practice*. CABI publishing, Wallingford.

## POPULAR SCIENTIFIC PUBLICATIONS

- Raclariu, A.C., Ichim, M.C., **De Boer, H.J.**, 2015. Metabarcoding of European Complex Herbal Food Supplements. *iBOL Barcode Bulletin* 6(2): 6-7
- Gato-Calvo, L., Vierna, J., **De Boer, H.J.**, 2014. Barcoding the Trendy Sweetener Stevia. *iBOL Barcode Bulletin* 5(2): 6-7
- Veldman, S., **De Boer, H.J.**, Otieno, J.N., Gravendeel, B., 2014. Species Assessment in African Orchid Cake. *iBOL Barcode Bulletin* 5(2): 10-11
- **De Boer, H.J.**, Kool, A., 2014. Identifying Medicinal Plant Roots in Trade: DNA barcoding in Morocco. *iBOL Barcode Bulletin* 5(1): 3
- **De Boer, H.J.**, 2012. Nyblivna mödrar rostar i Laos bergsbyar. [rapporterad av Strandberg, H. *Ergo* (Uppsala studentkårs tidning) 4: 16-17
- **De Boer, H.J.**, Kool, A., 2006. Ethnobotanie aan de universiteit van Uppsala. *Nederlands Tijdschrift voor Fytotherapie* 19(2): 11-12
- **De Boer, H.J.**, Meyboom, R., Ericsson, J., Farah, M., 2005. Farmacovigilantie van fytotherapeutica door het Uppsala Monitoring Centre. *Nederlands Tijdschrift voor Fytotherapie* 17(4): 2-4

## SUBMITTED MANUSCRIPTS

- **De Boer, H.J.**, Cross, H.B., de Wilde, W.J.J.O., Duyfjes, B.E.E., Gravendeel, B. Molecular phylogenetic analyses of Cucurbitaceae tribe Benincaseae urge for merging of *Pilogyne* with *Zehneria*. *Phytotaxa* [In review]
- Veldman, S., Otieno, J.N., van Andel, T.R., Gravendeel, B., **De Boer, H.J.** Next Generation Sequencing to assess species diversity in *chikanda*, an African traditional dish made of ground terrestrial orchid tubers. *Molecular Ecology Resources* [submitted]
- Gravendeel, B., Brochmann, C., **De Boer, H.J.**, Eurlings, M.C.M., van der Gaag, K.J., Gams, W., van Geel, B., de Knijff, P., Kolvoort, E., Lammers, Y., Nieman, A.M., Stech, M., Stielow, B., Geml, J. **Next generation sequencing of ancient DNA reveals high fungal diversity in permafrost preserved mammoth dung**. *Intended for PNAS* [manuscript] IF = 9.7

## SUPERVISED THESES AND DISSERTATIONS

- Vincent Manzanilla. 2014-ongoing. **Molecular identification of substitution and adulteration of complexes of medicinal roots in Morocco.** PhD Thesis, University of Oslo (co-supervisor)
- Sarina Veldman. 2013- ongoing. **Identifying and monitoring trade in Tanzanian wild-harvested medicinal plants by means of innovative genomics-based DNA barcoding.** PhD Thesis, Uppsala University (Main supervisor)
- Fredrik Schubert. Spring 2014. Plant-based insect repellents: searching for inexpensive and accessible alternatives to synthetic repellents in Lao PDR. MSc Thesis, Uppsala University (Main supervisor)
- Berenice Villegas Ramirez. Spring 2014. **A Targeted Enrichment Strategy for Sequencing of Medicinal Species in the Indonesian Flora.** Research thesis, Uppsala University (Main supervisor).
- Siri Abihudi. Spring 2014. **Documentation and identification of medicinal plants threatened by trade in Tanzania by means of DNA barcoding.** MSc Thesis, Muhimbili University of Health and Allied Sciences, Tanzania (Co-supervisor)
- Karin Steffen. 2012. Pliocene-Pleistocene Sunda-Wallacea-Sahul dispersals in *Trichosanthes* (Cucurbitaceae). MSc Thesis, Uppsala University (Main supervisor)
- Michael Kaguongo. 2012. **DNA barcoding of Tanzanian wild-harvested medicinal plants to identify and monitor trade and commercialization.** MSc Thesis, Uppsala University (Main supervisor)
- Crystle Cotingting. 2012. A meta-analysis of medicinal plants used for women's healthcare in Southeast Asia. BSc Thesis, Uppsala University (Main supervisor).
- Matilda Segersäll. 2011. **Molecular identification to aid monitoring of trade of non timber forest products: A case study using *Amomum* (Zingiberaceae) in Cambodia, Laos and Vietnam.** MSc Thesis, Uppsala University (Main supervisor).
- Chanda Vongsombath. 2011. Botanical Repellents and Pesticides Traditionally Used Against Haematophagous Invertebrates in Lao PDR. PhD Thesis, Uppsala University (Co-supervisor)
- Vichith Lamxay. 2011. The genus *Amomum* (Zingiberaceae) in Cambodia, Laos, and Vietnam: Taxonomy and Ethnobotany, with special emphasis on Women's Health. PhD Thesis, Uppsala University (Project coordinator)
- Gordon Virgo. 2010. Traditional Scandinavian Beer Brewing: Microbial Inhibitory effect of *Myrica gale* and *Rhododendron tomentosum*. MSc Thesis, Uppsala University (Main supervisor).
- Anders Rydberg. 2010. **DNA Barcoding as a Tool for the Identification of Unknown Plant Material.** MSc Thesis, Uppsala University (Co-supervisor).
- Evan Mati. 2009. Natural Dyeing Plants in Kurdistan, Iraq. MSc Thesis, Uppsala University (Main supervisor).
- Åsa Kruger. 2008. **DNA-Barcoding Identification of Medicinal Roots from Morocco.** MSc Thesis, Uppsala University (Main supervisor).
- Madeleine Julin. 2008. Tar production – traditional medicine and potential threat to biodiversity in the Marrakesh region: An ethnobotanical study. MSc Thesis, Uppsala University (Main supervisor).
- Marcus Lindborg. 2008. GC-MS analysis for Polyaromatic Hydrocarbons (PAH) in Moroccan medicinal tars: An ethnobotanical study and chemical investigation of the use and safety of medicinal tars in Marrakesh and the High Atlas Mountains, Morocco. MSc Thesis, Uppsala University (Main supervisor).
- Emma Lundh. 2007. Plant Use in Ante- and Postpartum Health Care in Lao PDR. MSc Thesis, Uppsala University (Main supervisor).
- Marie Melander. 2007. Endangered plants in the market in Havana City, Cuba. MSc Thesis, Uppsala University (Co-supervisor).
- Iria Soto Embodas. 2007. A domestication strategy of indigenous premium timber species by smallholders in Central Visayas and Northern Mindanao, the Philippines. MSc Thesis, Uppsala University (Main supervisor).