

Curriculum Vitae

Name **Prof. Dr. Nicole Marie van Dam**
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Research Focus

Chemical ecology of plant-herbivore interactions; crop resistance; host adaptation; integrated pest management; molecular ecology; plant metabolomics; sustainable horticulture

Education

1995 Ph.D., Leiden University, ('with distinction', top 5-10% in NL)
1990 M.Sc. Biology, Wageningen Agriculture University, NL, 1990

Professional Positions

2022 - 2022 Director Leibniz Institute for Vegetable and Ornamental Crops (IGZ), Großbeeren, Germany; research group head Plant-Biotic Interactions
Since 2014 Full professor Friedrich Schiller University, Jena
2014 – 2022 Research group leader Molecular Interaction Ecology (MIE) at the German Center for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig, Germany
2014 – 2019 Personal chair Molecular Interaction Ecology, IWWR
2010 – 2014 Full professor in Ecogenomics, Institute of Water and Wetland Research (IWWR), Radboud University Nijmegen, The Netherlands
2005 – 2009 Senior research scientist at the Netherlands Institute of Ecology (NIOO-KNAW), Heteren, The Netherlands
2003 – 2005 Research scientist at NIOO-KNAW, The Netherlands
2000 – 2003 Post-doctoral research associate at NIOO-KNAW, The Netherlands
1997 – 2000 Post-doctoral fellow at the Max-Planck-Institute of Chemical Ecology, Department of Molecular Ecology, Jena, Germany
1995 – 1997 Post-doctoral research associate at the University of California Riverside, Department of Entomology, Riverside (CA), USA
1994 – 1995 Post-doctoral research associate (0.3 fte), University of Leiden, Institute of Evolutionary and Ecological Sciences, Netherlands

Major Grants

2022 – 2026 Transfer Grant with seed breeding company NPZi; associated with CRC "Chemical mediators in complex biosystems (ChemBioSys) DFG grant no: SFB1127
2022 – 2026 Sino-German International Research Training Group TreeDi - 林地 "Tree Diversity Interactions: The role of tree-tree interactions in local neighbourhoods in Chinese subtropical forests" DFG GRK 2324) and Chinese Academy of Sciences
2020 – 2024 DFG Forschungszentren (DFG, FZT 118) grant for German Centre for Integrative Biodiversity Research (iDiv) Halle-Jena-Leipzig (PI, research area leader Molecular Biodiversity and Evolution)
2020 – 2023 Research Group "Ecology and Evolution of Intraspecific Chemodiversity in Plants", DFG FOR3000

Professional Activities and Memberships

Boards and (international) scientific activities

Since 2023	Scientific advisory board Leibniz Institute for Plantbiotechnology (IPB)
Since 2020	Member Supervisory Board Bejo, Netherlands. Bejo is a worldwide acting vegetable seed breeding company (additional position)
Since 2019	Scientific I Advisory Board of the Subtropical and Mediterranean Horticulture Institute (IHSM), Málaga, Spain
2021 - 2023	Editorial board member Annual Review of Entomology
2020 - 2022	FSU member in Speaker Board of iDiv
2020	Panel member DFG Call „Sequencing Costs in Projects“
2017 - 2022	Associate editor for Journal of Chemical Ecology/Journal of Ecology

Honors and Recognitions

2022 - 2023	President, International Society of Chemical Ecology (ISCE)
2020 - 2023	Invited visiting Linnaean Professor, Dept. of Ecology, SLU Sweden
Since 2020	Member NWO Spinoza Price committee (“Dutch Nobel Price”), NL
Since 2019	Member of F1000 Faculty, Plant-Biotic Interactions Section
Since 2019	Elected faculty member International Max Planck Research School MPI-Chemical Ecology, Jena
2010 - 2017	Elected Vice-Chair (2013) and Chair (2017) for the Gordon Research Conference Plant-Herbivore Interactions, Ventura, California, USA

Five key publications

- Weinhold A, Doll S, Liu M, Schedl A, Pöschl Y, Xu XL, Neumann S, **van Dam, N.M.** (2023). Tree species richness differentially affects the chemical composition of leaves, roots and root exudates in four subtropical tree species. *Journal of Ecology* 110, 97-116.
- Volf M, Volfová T, Seifert C, Ludwig A, Engelmann R, Jorge L, Richter R, Schedl A, Weinhold A, Wirth C, **van Dam NM** (2022) A mosaic of induced and non-induced branches promotes variation in leaf traits, predation, and insect herbivore assemblages in canopy trees. *Ecology Letters*, 25, 729– 739.
- Martínez-Medina A, Mbaluto CM, Maedicke A, Weinhold A, Vergara F, **van Dam NM** (2021) Leaf herbivory counteracts nematode-triggered repression of jasmonate-related defences in tomato roots. *Plant Physiology* 187 (3): 1762–1778.
- Macel M, Visschers IGS, Peters JL, Kappers IF, de Vos RCH, **van Dam NM** (2019) Metabolomics of thrips resistance in pepper (*Capsicum* spp.) reveals monomer and dimer acyclic diterpene glycosides as potential chemical defenses. *Journal of Chemical Ecology* 45:490-501. doi: 10.1007/s10886-019-01074-4.
- Lortzing T, Calf OW, Böhlke M, Schwachtje J, Kopka J, Geuß D, Kosanke S, **van Dam NM**, Steppuhn A (2016) Extrafloral nectar secretion from wounds of *Solanum dulcamara*. *Nature Plants*, article number 16056; doi: 10.1038/nplants.2016.56.