

CURRICULUM VITAE ET STUDIORUM

Name : Günter Gerlach
Date of birth : 18/12/1953
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Education and Employment

1960 – 1967 primary school in Michelstadt
1967 – 1972 secondary school Michelstadt
1974 – 1975 Technical University Darmstadt, studies in electronics
1975 – 1977 Universities of Heidelberg and Marburg, studies in German and Romance languages and literature
1977 – 1979 Apprenticeship in horticulture
1979 – 1981 Orchid gardener at Heidelberg Botanic Garden, organization of asymbiotic germination laboratory.
1981 – 1986 University of Heidelberg, biology, thesis: observations in orchid flowers after pollination.
1986 – 1991 University of Heidelberg, graduate student, doctoral thesis: The genus *Coryanthes* (Orchidaceae) – a monograph with special considerations of the floral fragrances (magna cum laude).
1991 – present Curator at Munich Botanical Garden, responsible for Orchidaceae, Gesneriaceae, Passifloraceae, aquatic plants, tropical greenhouses, protected plants, biological and ecological department, organisation of research projects.

Research projects

Analyses of floral fragrances of orchids and other plant families, collaboration with R. Clery (before R. Kaiser), Givaudan Roure Research, Dübendorf / Switzerland.
Analyses of floral oils, collaboration with L. Wessjohann, Leibniz Institute of Plant Biochemistry, Halle, Germany and S. Dötterl, University of Salzburg, Austria (financed by DFG).
Collaborator in Flora Mesoamerican Project (Universidad Nacional Autónoma de México, Missouri Botanical Garden, The Natural History Museum, London).
Studies in Systematics and Taxonomy of the subtribes Stanhopeinae, Coeliopsidinae, Catasetinae

and Zygotetinae.

Collaborator in the project "Genera Orchidacearum" edited by Pridgeon, Cribb, Chase & Rasmussen.

Investigation in the biology and systematics of euglossine bees.

Collaborator in "Catalogo de plantas vasculares de Venezuela".

Collaborator in "Catalogo de plantas de Colombia".

Monographs of the orchid genera *Macradenia*, *Eriopsis*, *Koellensteinia* and *Rudolfiella* (together with G.A. Romero).

Evolution and phylogeny of *Cycnoches*, an orchid genus with sexual dimorphism, in collaboration with M. Gottschling, LMU-München and F. Blattner, IPK Gatersleben (financed by DFG).

Other

Volunteer at SYNOPSIS (Institut de Recherche alternative), Lodève / France; construction of a test system for solar thermal collectors (02/1983 - 04/1983).

Collaboration as graduate assistant in the large scale experiment OPAL (for ring accelerator CERN, Geneva), construction of field degraders for JET-chamber (more than 5 years)

Supervision of the course "micro morphology" (scanning electron microscopy) as graduate assistant

From 1987 to 1989 supervision of 4 annual courses on the "Ecology of the Alps" in Pitztal / Austria offered by ARGUK (Arbeitsgruppe Umweltkontrolle e. V.).

Supervision of 2 seminars on the asymbiotical propagation of orchids (04/1989).

Guidance of special tours in the botanical gardens of Heidelberg and Munich.

Since 1992 independent expert for BfN (Bundesamt für Naturschutz) in concern of processing CITES.

Short time expert for GTZ (Deutsche Gesellschaft für Technische Zusammenarbeit GmbH), project title: "Capacity Building Environment" in Turkey (2004).

Member at editorial board of ORQUIDEOLOGIA (Colombia), LANKESTERIANA (Costa Rica), CALDASIA (Colombia).

More than 25 years field experience in tropical Latin America, field trips to Venezuela (11x), Colombia (4x), Bolivia (2x), Ecuador (4x), Perú (4x), Panamá (3x), Brasil (3x), Costa Rica (3x) and Mexico (1x) at least 4 weeks each.

Since 2008 research associate in the Research Center on Andean Orchids "Angel Andreetta" in Gualaceo, Ecuador.

Reviewer of different scientific journals (e.g. Acta Amazonica, Candollea, Interciencia, Lankesteriana, Phytotaxa, Plant Biology, Tropical Zoology, Willdenovia, AoB Plants, Orquideología)

Talks at international conferences (mostly invited)

- 1996 - Sociedad Venezolana de Ciencias Naturales (SVCN), Caracas, Venezuela
- 1996 - Primer simposio internacional de orquídeas para Colombia (SCO), Medellín, Colombia
- 2003 - European Orchid Conference (EOC), London, England
- 2003 - 1er Congreso Internacional de Orquideología Neotropical, San José, Costa Rica
- 2004 - Quito, Orchid Show and Conference, Quito, Ecuador
- 2005 - 18th World Orchid Conference (WOC), Dijon, France
- 2005 - Primera Conferencia Científica de Orquídeas de los Andes, Gualaceo, Ecuador
- 2006 - European Orchid Conference (EOC), Padua, Italia
- 2009 - The third Scientific Conference on Andean Orchids, Quito, Ecuador
- 2010 - VI Congreso Colombiano de Botánica en Calí, Colombia
- 2011 1a Conferencia Internacional sobre Conservación y Manejo de Orquídeas, Aguas Calientes, Perú
- 2012 - IV Conferencia Científica de Orquídeas de los Andes, Guayaquil, Ecuador
- 2017 - 22th World Orchid Conference (WOC), Guayaquil, Ecuador

International courses

- 2010 - La movilidad prestada - polinización de flores; Universidade Estadual de Campinas (UNICAMP) Brazil (duration 5 days).
- 2016 – Biología reproductiva de las plantas con flores, Universidad nacional Mayor de San Marcos, Lima, Perú

Ten peer reviewed publications (out of > 100)

- GERLACH, G. & SCHILL, R. 1993: Composition of Orchid Scents Attracting Euglossine Bees. *Bot. Acta* 104: S.379-391.
- DUMRI, K., SEIPOLD, L., SCHMIDT, J., GERLACH, G., DÖTTERL, S., ELLIS, A.G. & WESSJOHANN, L.A. 2008: Non-volatile floral oils of *Diascia* spp. (Scrophulariaceae). *Phytochemistry* 69: 1372-1383.
- RAMÍREZ S.R., ELTZ, T., FUJIWARA, M.K., GERLACH, G., GOLDMAN-HUERTAS, B., TSUTSUI, N.D., PIERCE, N.E. 2011: Asynchronous Diversification in a Specialized Plant-Pollinator Mutualism. *Science* 333: 1742-1746.
- SCHÄFFLER, I. STEINER, K.E., HAID, M., VAN BERKEL, S.S., GERLACH, G., JOHNSON, S.D., WESSJOHANN, L. & DÖTTERL, S. 2015: Diacetin, a reliable cue and private communication channel in a specialized pollination system. *Sci. Rep.* 5, 12779; doi: 10.1038/srep12779.
- ROMERO-GONZÁLEZ, G.A., CARNEVALI FERNÁNDEZ-CONCHA, G. GERLACH, G. & CETZAL-LX, W. 2015: Novelties in the orchid flora of Venezuela VIII. Subtribe Eriopsidinae. *Eriopsis*. *Harvard Papers in Botany* 20(2): 101-143.

- PÉREZ-ESCOBAR, O.A., GOTTSCHLING, M., WHITTEN, M.W., SALAZAR, G. GERLACH, G. 2016: Sex and the Catasetinae (Darwin's favourite orchids). *Molecular Phylogenetics and Evolution* 97: 1–10.
- SALAZAR, G., CABRERA, L.I., GERLACH, G., HÁGSATER, E. & CHASE, M.W. 2016: Phylogenetic relationships in *Mormodes* (Orchidaceae, Cymbidieae, Catasetinae) inferred from nuclear and plastid DNA sequences and morphology. *Phytotaxa* 263(1): 18–30.
- MILET-PINHEIRO, P. & GERLACH, G. 2017: Biology of the Neotropical orchid genus *Catasetum*: A historical review on floral scent chemistry and pollinators. *Perspectives in Plant Ecology, Evolution and Systematics* 27 (2017) 23–34.
- NUNES, C.E.P., GERLACH, G., BANDEIRA, K.D.O., GOBBO-NETO, L., PANSARIN, E.R. & SAZIMA, M. 2017: Two orchids, one scent? Floral volatiles of *Catasetum cernuum* and *Gongora bufonia* suggest convergent evolution to a unique pollination niche. *Flora*.
<http://dx.doi.org/10.1016/j.flora.2016.11.016>
- MILET-PINHEIRO, P., BATISTA F. SILVA, J., NAVARRO, D.M.A.F, MACHADO, I.C.S., & GERLACH, G. 2018: Notes on pollination ecology and floral scent chemistry of the rare neotropical orchid *Catasetum galeritum* Rchb.f.. *Plant Species Biology* 33(2): 158-163. doi: 10.1111/1442-1984.12202

Munich, Germany, 17.09.2018



(Dr. Günter Gerlach, senior curator)