# Prof. Christian Ulrichs



Faculty of Life Sciences
Albrecht Daniel Thaer-Institute of Agricultural and Horticultural Sciences
Department of Crop and Animal Sciences, Urban Ecophysiology of Plants

**Expertise**
Prof. Ulrichs is an expert in the field of ecophysiology of plants with a special focus on plants in urban spaces. His team studies processes, which determine plant growth, e.g. stress exposure in an urban environment. The emphasis of his research lies on the analysis of the secondary metabolite balance (incl. its nutritional function), substance allocation, competition and plant-insect interaction. Prof. Ulrichs other major field of expertise is the quality assurance in food supply chains of horticultural products, especially for perishable foodstuffs like fruits and vegetables in temperate zones as well as in tropical/subtropical regions.

**Scientific Services**
- molecular methods
- in-vitro propagation
- HPLC
- GC/MS
- electroantennogram studies
- trace gas analysis using photoacoustic spectroscopy

**Testimonials**
- German specialty chemicals group: development of nanostructured plant protection agents
- H. Lorberg Baumschulerzeugnisse GmbH & Co. KG (tree nursery): selection of climate-tolerant boulevard trees (Alleebaum)
- Bein GmbH: development of electrostatic application processes of nanostructured elements
- Bayer Crop Science: biosensors to prove the existence of plant viruses
- XEROFLOR: development of vegetation carriers to prevent soil erosion in the Alps

**Topics / Trends**
Biomolecules
Health
Climate / Climate Change
Land Use
Logistic Systems & Processes
Sustainability & Ressource Efficiency
Food
Urbanisation & Mega Cities
Consumer Protection
Value Chains

**Industries**
Agriculture & Food
Energy, Utilities & Raw Materials
Healthcare & Life Sciences

**Mentor for Startup**
Botanicly GmbH

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