

# RESEARCH FOR SUSTAINABLE PLANT NUTRITION

ADDRESSING WORLDWIDE CHALLENGES

## Crop Research in Times of Climate Change

The increasing world population, changing dietary habits and climate change place great demands on agricultural research. Increasingly, the focus in agriculture and agricultural sciences is on questions pertaining to the efficient use of arable land, pasture, water and plant nutrients.

The Institute of Applied Plant Nutrition - IAPN - addresses these issues. We are committed to researching the role of intelligent fertilizer management in handling these global challenges, and in providing solutions.

IAPN works at the interface between science and agricultural practice. Developing approaches to an efficient transfer of knowledge is therefore an important goal. We aim at gathering knowledge in a global network, creating synergies for successful research and practical implementation of research results.



Photo: Herwig



Photo: D. Jákli

### IAPN Topics

IAPN scientists focus on a range of concrete problems and their solutions:

- Relevance of nutrients for stress tolerance in plants under changing climate conditions.
- Connection between mineral nutrition, fertilizers and water-use efficiency in the soil/plant system.
- Options for increasing nutrient-use efficiency in crop plants.
- Understanding alterations in the plants physiology as response to fertilization.
- Connections between plants nutrient supply and human health.
- New strategies for improving fertilizer recommendations and management.

## Sponsors of the Institute

**Georg-August-Universität Göttingen** has a long tradition in researching and teaching crop sciences. With more than 31.500 students, Georgia Augusta is one of the most important universities in Germany offering crop science studies.

[www.uni-goettingen.de](http://www.uni-goettingen.de)



**K+S** with its headquarters in Kassel, Germany, mines potash and magnesium crude salts in Germany and Canada. These crude salts serve as the basis for the production of a wide range of specialty fertilizers, as well as for primary products for technical, industrial and pharmaceutical applications. K+S is one of the leading potash suppliers worldwide.

[www.kpluss.com](http://www.kpluss.com)



## Co-operation of Science and Industry

IAPN is a public-private partnership between K+S, headquartered in Kassel, and the Georg-August-Universität Göttingen. These and similar collaborations between public institutions and the private sector, particularly research cooperations, have recently seen vibrant growth in Germany. Within this public-private partnership independent scientific work according to international academic standards is guaranteed.

### Organizational structure of the IAPN



The responsible body of the IAPN is K+S. The company provides staff endowment and additional funds for concrete research and development projects.

By promoting practice-oriented research and addressing topics of international relevance in its teaching, IAPN strengthens the activities in the field of plant nutrition of the Department of Crop Sciences at Georg-August-Universität Göttingen.

## International Guests Are Welcome

The transfer of knowledge and the establishment of worldwide networks in the area of plant nutrition are important tasks of the IAPN. Visiting scientists and visiting students are therefore very welcome at the institute.

### Current research

More about our work can be found at our website and especially in IAPN's annual reports. These offer detailed information on current and recently finished research projects, knowledge transfer activities, finished theses supervised by IAPN team and last year publications. IAPN's reports are provided in English. They are free for download at [www.iapn.de/en/institute/annual-reports/](http://www.iapn.de/en/institute/annual-reports/)



Photo: Herwig

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