

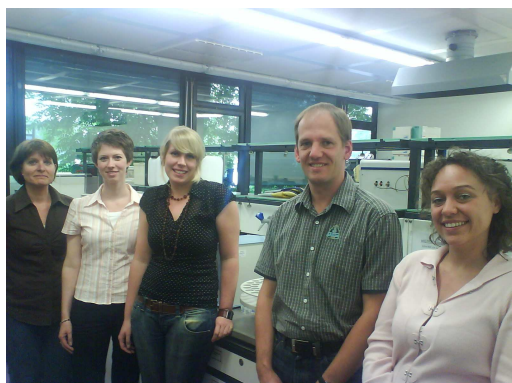
## Evaluation of Liquid Formulations or Fluids Taste

Collaboration with the University of Düsseldorf (Germany),  
Pharmaceutical Technology Institute.

“The **ASTREE** electronic tongue is a valuable tool for predicting the taste of liquid formulations”

The **ASTREE** Electronic tongue is used by the taste assessment and taste masking group driven by Prof. Dr. Jörg Breitzkreutz and Prof. Dr. Peter Kleinebudde. The Institute of Pharmaceutics and Biopharmaceutics focuses on solid drug dosage forms and on innovations for paediatric, geriatric or veterinary use.

There are numerous projects on the development of novel drug formulations. The projects include liquid drug formulations, orodispersible dosage forms, oral films (wafers), granules, pellets and conventional tablets.



From left to right : Mrs Eikeler, Mrs Tißen, Mrs Wörtz, Dr Breitzkreutz, Mrs Bronn

Katharina Wörtz is doing her PhD on the taste prediction for liquid formulations using electronic tongues such as the **ASTREE** e-tongue. Corinna Tißen develops within her PhD work various solid dosage forms with bitter ingredients

and uses the **ASTREE** e-tongue for the taste prediction of

fluids with dissolved drug substance.

“The **ASTREE** e-tongue is a valuable tool for predicting the taste of liquid formulations or fluids with dissolved drug substance. It needs thorough understanding of the processes at the sensors’ membranes during the measurements and of the statistical treatment of the obtained data. Our aim is to validate this analytical tool in a pharmaceutical setting and to study the validity, the predictability and robustness of e-tongue instruments.

## Düsseldorf University



### Activity

Research on solid drug dosage forms and on innovations for paediatric, geriatric or veterinary use

### Context

Taste evaluation of novel drug formulations

### Equipment

**ASTREE** Electronic Tongue

### User contact

Prof. Dr. Jörg Breitzkreutz

### Website

[http://www.pharmazie.uni-duesseldorf.de/Institute/pharm\\_tech/Englisch/Arbeitsgruppen/AK\\_Breitzkreutz/JB\\_Forsch](http://www.pharmazie.uni-duesseldorf.de/Institute/pharm_tech/Englisch/Arbeitsgruppen/AK_Breitzkreutz/JB_Forsch)