



University of Natural Resources  
and Life Sciences, Vienna

Global  
Challenges  
University  
Alliance

**GCUA Summer School for PhD students**

## **REDUCING ANTIBIOTIC RESISTANCE IN LIVESTOCK FARMING**

### **Objectives:**

The GCUA summer schools aim to train potential young leaders in bio-economy of the future and provide them with an active global network very early in their careers.

Facing the Post Antibiotic Era this summer school for PhD students follows the GCUA workshops for senior scientists in December 2015 at SLU in Sweden:  
<http://www.slu.se/en/international/global-challenges-university-alliance/workshops/gcuaw8-livestock-production/>

**It will be held**

**in Vienna, Austria**

**from Monday 5<sup>th</sup> – 13<sup>th</sup> September 2016**

**Sunday 4<sup>th</sup> September: Welcome reception**

## Topics addressed during the summer school include:

### Monitoring antibiotic resistance and reducing the need for antibiotics

- **Monitoring:**
  - techniques and methods
  - monitoring programmes
  - available data
  - epidemiology
- **Improvement strategies:**
  - health planning
  - biosecurity
  - feeding strategies (supplements)

**Credits: 4 ECTS**

### Programme:

- **Written reflection** on review article (preparation before the summer school):

Before the course starts, students will be required to read some background papers, which will be assigned in July 2016, to ensure that all participants have a basic knowledge and will be able to fully benefit from the course.
- **Scientific poster: How can my research help to overcome the challenge of antibiotic resistance?**

Each student is also required to prepare in advance an electronic research poster describing their research – based on their own subject and geographical area perspective. The posters will be printed at BOKU and presented by the author during the first days in informal sessions to provide an overview of challenges faced by the different participants.

- **Lectures and discussions** with international experts
- **Training in generic skills**
- **Excursion** to research facility and farm visit
- **Formulation of research ideas:**

During the last two days groups of students will prepare a research idea following a “call” based on the corresponding GCUA Workshop.

Detailed program and schedule will follow.

## Jointly Hosted by:

Department of Food Science and Technology &  
Department of Sustainable Agricultural Systems

## At

BOKU – University of Natural Resources and Life Sciences, Vienna (AUSTRIA)  
Muthgasse 18, A-1190 Vienna, AUSTRIA, Europe

Detailed travelling and hotel information will follow in June.

## PhD students:

PhD students from animal science, food safety, and veterinary science can apply.

Up to 25 PhD students from GCUA Full Member Universities: SLU (SE), University of Michigan (US), Lincoln University (NZ), BOKU (AT) and Associated Universities.

GCUA Member- and Associate Universities are advised to recommend up to three students to apply.

Enrolling with BOKU University is necessary. Further information will be sent to selected participants in early June, with a reply deadline by Mid-June 2016.

## Process:

- **Application procedure:** use application form (attached).
- **Selection procedure:** If too many worthy applications received, participants will be selected with respect to their field of research and geography.
- **Travelling costs have to be covered by the sending institution. Accommodation costs and the costs of the summer school will be covered by BOKU.**
- **Closing date for applications: 30<sup>th</sup> May 2016**
- For specific information and application please use: [gcuaboku@boku.ac.at](mailto:gcuaboku@boku.ac.at)  
Christine Leeb, Konrad Domig, Margarita Calderón-Peter

## Background- What is GCUA?

The Global Challenges University Alliance (GCUA) is a consortium of partner universities with particular strength in agricultural sciences (including food, veterinary, landscape architecture and forest sciences), environmental sciences and/or the life sciences. The GCUA aims to obtain greater scientific knowledge about the fundamental conditions for life and, most importantly, translate this knowledge into relevant, global action. This is possible only through extensive international cooperation and mutual learning.

## Translating knowledge into relevant action

Meeting these global challenges can only be done through obtaining greater scientific knowledge about the fundamental conditions for life – translating knowledge into relevant action – and through dedicated international co-operation.

For more information, please visit the Global Challenges University Alliance homepage:

**<http://www.slu.se/en/international/global-challenges-university-alliance/>**

## BOKU – University of Natural Resources and Life Sciences, Vienna

BOKU – University of Natural Resources and Life Sciences is a unique Austrian research and teaching organisation with strong focus on renewable resources, living space and quality of life as well as food chain and health issues. BOKU innovatively combines fundamental and applied expertise in the fields of natural sciences, engineering and planning sciences, and social and economic sciences to enhance the knowledge basis for sustainable management of our natural resources.

BOKU is located in the North of Vienna and has three different “campuses”: Türkenschanze, Muthgasse and Tulln.

The GCUA Summer School **will take place at Campus Muthgasse**, near metro stop Heiligenstadt. It hosts several departments, the VIBT (Vienna Institute of Biotechnology <http://www.boku.ac.at/en/wissenschaftliche-initiativen/vibt/> ), and parts of some of the service units.

Further information on BOKU <http://www.boku.ac.at/>

## About Vienna

Vienna has 1,7 million inhabitants and is situated on the banks of the Danube. Austria's capital ranks on top of the most attractive cities worldwide. The feeling of wellbeing enjoyed by locals and tourists has been confirmed repeatedly by leading international studies and city rankings. Vienna is a dream city for anyone with an interest in history. Narrow medieval alleyways and grand boulevards lead to historic sights such as the Imperial Palace (Hofburg), Belvedere Palace, Burgtheater, the Spanish Riding School, St. Stephen's Cathedral, the Opera House, Karlskirche, or Schönbrunn Palace. In 2001, the city centre was designated a UNESCO World Heritage Site.

Vienna has been synonymous with music for centuries, and was home to Mozart, Beethoven, Schubert and Johann Strauss. The Vienna Philharmonic Orchestra is one of the world's top orchestras and the Vienna Boys' Choir is triumphantly successful wherever it tours. Vienna possesses a lively and vast array of cultural attractions from classical or experimental theatre, film or dance festivals, opera or operetta, as well as exhibitions and concerts. The Museum of Fine Arts is one of the world's largest and most distinguished museums housing priceless works of art. Art accompanies you wherever you go in Vienna – even some of its underground stations are listed properties because of their elegant ornamental Jugendstil (Art Nouveau) style designed by Otto Wagner.

**We are looking forward to welcome you at BOKU,  
in Vienna, Austria!**