



PhD position in the field of microbial ecology of the fowl gastrointestinal tract

The young investigator group “Microbial Ecology” at Institute of Animal Science in Hohenheim, Germany offers a PhD position in the microbial ecology of the fowl gastrointestinal tract.

The project aims to characterise the phylogenetic and functional diversity of the microbiota in the digestive tract of quails and laying hens and is part of the DFG FOR2016: “Inositol phosphates and myo-inositol in the domestic fowl: Exploring the interface of genetics, physiology, microbiome, and nutrition”. The overall aim is to understand the fundamental principles of microbe-host interactions of the composition and function of the intestinal microbiota in laying hens and quails with special focus on the impact of InsP6 degradation products in intestinal microbiota.

Candidate profile:

- You hold a master degree in microbiology, bioinformatics or agricultural biology/science or another field relevant to the topic
- You should have knowledge or be interested in:
 - Molecular biology methods
 - (16S) sequencing, metaproteomics, metatranscriptomics and bioinformatics
- You should be motivated to learn different techniques, and flexible to work
- You should have good communication and writing skills in English.

The place of work is at the University of Hohenheim, Stuttgart, Germany. Salary will be according to the appropriate civil service level EG 13 TV-L, 0.5. Funding is available for 36 months.

Women are explicitly encouraged to apply for increase their share in science and research. Physically handicapped persons will be favoured if they are equally qualified.

For questions you can contact Dr. Amélia Camarinha Silva (amelia.silva@uni-hohenheim.de).

Applications should be sent as a single pdf file by email to amelia.silva@uni-hohenheim.de until 16th of October 2017. These should include: (i) a cover letter; (ii) a full CV; (iii) copy of certificates and (iv) contact details of two academic referees.



„Feed-Gut Microbiota Interaction“
Jun.-Prof. Dr. Jana Seifert

The group of Jun.-Prof. Dr. Jana Seifert (Feed-Gut Microbiota Interaction) at the Institute of Animal Science is offering one position for three years for

PhD position (m/f) in the field of microbiota-host interaction in laying hens

The project aims to characterise the influence of the microbiome and their metabolites towards epithelial functions and smooth muscle contractility in regards to InsP6 degradation in laying hens and is part of the DFG FOR2016: “Inositol phosphates and *myo*-inositol in the domestic fowl: Exploring the interface of genetics, physiology, microbiome, and nutrition”.

The interaction or cross-talk between the microbiota (metabolites) and the host will be investigated by a novel approach using Ussing chambers as short-term incubation systems. Possible effects towards epithelial integrity and transport functions will be described. Simultaneous performing of two *in vitro* measures of tissue functions will allow to reveal a first insight in potential pathways of the cross-talk between gut microbiota and host tissues

We seek a highly motivated creative person with interests in animal physiology, microbiology and metabolomics. Candidates should have a Diploma or MSc certification in the area of agricultural biology/science, microbiology, biology or veterinary science.

The place of work is at the University of Hohenheim, Stuttgart, Germany. Salary will be according to the appropriate civil service level EG 13 TV-L, 0.5. Funding is available for 36 months.

Women are explicitly encouraged to apply for increase their share in science and research. Physically handicapped persons will be favoured if they are equally qualified.

Further information can be obtained from
Jun.-Prof. Dr. Jana Seifert, email: jseifert@uni-hohenheim.de

Please send your complete application documents including a CV, motivation letter and copy of certificates in **one** pdf file until 30th September 2017 to jseifert@uni-hohenheim.de.