



## **Master thesis in the field Molecular Parasitology (Minor Employment 551,1€/month)**

### **Activity of commercially available mouthwashes against *Entamoeba* spp.**

The aim of this thesis is to evaluate the potential, amoebicidal effect of two mouthwashes against *Entamoeba* spp. and to compare it to other commercially available mouthwashes. A potential activity in-vitro will be assessed before and after mouthwash usage for seven days in cooperation with the University clinic of Dentistry with quantitative analyses of clinical samples employing real-time PCR.

**Time frame:** ca. 9 months (including writing of thesis), starts as soon as possible

#### **Your Tasks:**

- Literature research
- Susceptibility testing of mouthwashes against different *Entamoeba* strains
- Testing of culture methods for *E. gingivalis*
- DNA-Isolation and real-time PCR of clinical samples

#### **Requirements:**

- Bachelor degree in a relevant life science subject such as molecular biology, biochemistry, biotechnology or related studies
- Accuracy and diligence in scientific work and its documentation
- Basic experience in sterile cell culture techniques and molecular biology methods (PCR, RT-PCR,...)
- Basic knowledge in statistics advantageous
- Good German- and English knowledge

#### **We offer:**

- Dynamic, diverse, and supportive research environment
- High scientific standard
- Minor employment for 9 months (551,1 €/Monat)
- Thorough guidance and space for self-responsibilities

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