



The **Institute of Clinical and Experimental Trauma Immunology** (Head: Prof. Dr. Markus Huber-Lang) is looking for a

## **PhD student (f/m/d) – Posttraumatic inflammation and organ dysfunction**

### **Project description:**

Trauma remains one of the leading causes of death especially in people below the age of 45. We are focused on unraveling the underlying pathomechanisms of barrier and organ dysfunction in order to advance diagnostic and preventive strategies. White adipose tissue regulates numerous vital processes via its secretion products. These mediators (adipokines) are known to have considerable effects on local and circulating immune cells as well as distant organ systems. However, the exact role of adipose tissue in an unbalanced posttraumatic inflammatory response remains unclear. This project will investigate the contribution of adipose tissue and its secretion products to posttraumatic immune responses, metabolism, and organ dysfunction employing a broad spectrum of methods. The project will be supervised by Dr. rer. nat. Rebecca Halbgebauer and include a broad spectrum of methods and state-of-the-art *in vitro* and *in vivo* models as well as clinical studies.

### **What we offer:**

The Institute of Clinical and Experimental Trauma Immunology ([www.uniklinik-ulm.de/iti](http://www.uniklinik-ulm.de/iti)) focusses on the pathomechanisms of posttraumatic complications such as multiple organ dysfunction and infection, and the development of novel therapeutic approaches. We offer interesting research topics with high clinical relevance within an excellent scientific environment. The Institute is also active in the **Collaborative Research Centre 1149** (CRC1149) "Danger response, disturbance factors and regeneration after acute trauma", and the **Trauma Research Centre Ulm** (ZTF), and offers extensive local and international collaborations. Salary and benefits are according to the German TV-L system (65%). We recommend PhD students to join the International Graduate School of Molecular Medicine Ulm (IGradU). Furthermore, we encourage students to present their data in national and international conferences.

### **Candidates:**

Applicants will hold an excellent M.Sc. degree or equivalent in biology, molecular medicine, biochemistry etc., are fluent in English, and have a strong motivation to address biological and medical questions with interdisciplinary approaches.

**Start of the project:** January 2023

**Duration:** 3 years

Please send your application as one merged PDF file containing a letter of motivation, CV (+ list of publications), certificates and transcripts of grades (B.Sc., M.Sc., other degrees), to [Rebecca.halbgebauer@uniklinik-ulm.de](mailto:Rebecca.halbgebauer@uniklinik-ulm.de) until January 15<sup>th</sup>, 2023.

For further information, please get in touch via email or phone (+49 731 500 54806) or visit our website <https://www.uniklinik-ulm.de/iti>