

The Hartmann Lab ("[Molecular Recognition and Catalysis](#)") at the Max Planck Institute (MPI) for Developmental Biology and the Interfaculty Institute of Biochemistry (IFIB) in Tübingen, Germany, has an opening for a

Postdoc position in peptide-based PROTACs

(m/f/d, TV-L E13, 100%)

Targeted protein degradation via PROteolysis TArgeting Chimeras (PROTACs) is steadily gaining momentum as a key modality for future therapeutics. PROTACs recruit disease-relevant proteins for ubiquitination by specific E3 ligases, and our group has a long-standing interest in delineating the chemical ligand space of E3 ligases for the development of novel PROTACs. However, with the currently available small-molecule ligands, only a small subset of human E3 ligases can be addressed via the PROTAC approach. With peptide-based PROTACs mimicking natural degron motifs, we aim to overcome this limitation and enable an mRNA-based delivery. In a first step, we are using methods of protein design and directed evolution (E.g. phage display) to identify and refine suitable peptidic E3 ligase ligands. The postdoctoral researcher will work on the establishment of *in-vitro* ubiquitination systems, as well as on the validation of peptidic ligands and their subsequent refinement via directed evolution.

We are looking for a highly motivated candidate who enjoys working both independently and as part of a team. Key requirements are a strong background in biochemistry and eukaryotic cell culture and a very solid understanding of structural biology in general. Prior experience with directed evolution methods is a strong plus. Our group is expanding from the MPI to the IFIB and the candidate will be located mainly at the latter.

The position is initially limited to 18 months, with the possibility of extension, and is open immediately until a suitable candidate is found. Applications including a letter of motivation, detailed CV, brief description of previous work, publication record and the contact information of two referees should be sent to marcus.hartmann@tuebingen.mpg.de

The University of Tübingen seeks to increase the number of women in areas where they are underrepresented and therefore explicitly encourages women to apply. Equally qualified applicants with disabilities will be given preference.

The Max Planck Society is committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals. The Max Planck Society seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply. The Max Planck Society strives for gender equality and diversity.