

PROJECT REVIEW

“Implementation of isoform-based GH test in 3 WADA accredited laboratories”

M. Bidlingmaier (Ludwig-Maximilians-University, Klinikum der Universitaet, Medizinische Klinik - Innenstadt, Munich, Germany), **C. Strasburger, Z. Wu** (Charite Campus Mitte, Berlin, Germany)

Research in recent years demonstrated that the analysis of changes in the hGH isoform pattern occurring after administration of recombinant hGH could help to develop a method to detect hGH doping. Basic requirement for such a technique is the availability of appropriate antibodies and the experience in the techniques to utilize them in specific immunoassays.

The aim of this research project is to familiarize personnel from 3 WADA accredited laboratories with the use of the specific monoclonal antibodies developed in our group in immunoassays to detect doping with human growth hormone. All steps necessary – ranging from the theoretical background up to practical training with measurement devices – will be performed by experienced members of our group together with the respective delegates from the WADA accredited labs. Each participant will be able to prepare and conduct the tests at the end of the training.

In addition, preparation, testing and shipment of reagents necessary to perform a minimum of 5000 analyses is included within this project proposal. Monoclonal antibodies, calibrators and control samples will be shipped on dry ice to the respective WADA accredited laboratories to allow their participation in the international external quality assessment scheme planned for June this year to allow a validated decision about the status of the implementation of the test at the respective sites.