

Selected research topics in Biomedical Engineering: Novel Phenotyping and Diagnostic Tools

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New potentially performance enhancing drugs

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Abstract

The number and diversity of potentially performance-enhancing substances is continuously growing, fueled by new pharmaceutical developments but also by the inventiveness and, at the same time, unscrupulousness of black-market (designer) drug producers and providers. In terms of sports drug testing, this situation necessitates reactive as well as proactive research and expansion of the analytical armamentarium to ensure timely, adequate, and comprehensive doping controls.

Curriculum

Dr. Mario Thevis is Vice President of Research, Professor, and head of the Centre for Preventive Doping Research at the German Sport University of Cologne. He is also Director of the European Monitoring Center for Emerging Doping Agents (EuMoCEDA), a forensic chemist, Editor and Chief of the journal Drug Testing and Analysis, and a Research Scientist with the Partnership for Clean Competition. He received his undergraduate education in organic chemistry from RWTH Aachen University as well as in sports sciences from the German Sport University of Cologne. Mario went on to earn his PhD in biochemistry from the German Sport University of Cologne. Afterwards, Mario conducted postdoctoral research at the University of California, Los Angeles. He served as a senior researcher at the German Sport University Cologne for a few years before being appointed Professor for Preventive Doping Research there