

## WAADS publication list 2013

de Rijke E, Essers ML, Rijk JC, Thevis M, Bovee TF, van Ginkel LA, Sterk SS. Selective androgen receptor modulators: In vitro and in vivo metabolism and analysis. de Rijke E, Essers ML, Rijk JC, Thevis M, Bovee TF, van Ginkel LA, Sterk SS. Food Addit Contam Part A Chem Anal Control Expo Risk Assess. 2013 Jul 24. [Epub ahead of print]

Guddat S, Fußhöller G, Beuck S, Thomas A, Geyer H, Rydevik A, Bondesson U, Hedeland M, Lagojda A, Schänzer W, Thevis M. Synthesis, characterization, and detection of new oxandrolone metabolites as long-term markers in sports drug testing. Anal Bioanal Chem. 2013 Jul 23. [Epub ahead of print]

Höppner S, Schänzer W, Thevis M. Fragmentation studies of SIRT1-activating drugs and their detection in human plasma for doping control purposes. Rapid Commun Mass Spectrom. 2013, 27, 35-50.

Höppner S, Schänzer W, Thevis M. Mass spectrometric studies on the in vitro generated metabolites of SIRT1 activating drugs for doping control purposes. J Mass Spectrom. 2013 Jul;48(7):830-43. doi: 10.1002/jms.3227.

Jahn S, Beuck S, Möller I, Thevis M, Karst U. Using electrochemistry for metabolite simulation and synthesis in preventive doping research: application to the Rycal S107 and the PPAR $\delta$ -agonist GW1516. Anal. Methods 5, 2013, 1214-1224

Koehler K, Braun H, de Marees M, Geyer H, Thevis M, Mester J, Schaenzer W. Glycerol administration before endurance exercise: metabolism, urinary glycerol excretion and effects on doping-relevant blood parameters. Drug Test Anal. 2013 Jan 28. doi: 10.1002/dta.1446. [Epub ahead of print]

Koehler K, Thevis M, Schaenzer W. Meta-analysis: Effects of glycerol administration on plasma volume, haemoglobin, and haematocrit. Drug Testing and Analysis 2013. DOI 10.1002/dta.1580 [Epub ahead of print]

Orlovius AK, Guddat S, Gütschow M, Thevis M, Schänzer W. In vitro synthesis and characterisation of three fenoterol sulfoconjugates detected in fenoterol post-administration urine samples. Analytical and Bioanalytical Chemistry DOI: 10.1007/s00216-013-7383-2

Orlovius AK, Thomas A, Schänzer W and Thevis M. AOD-9604 does not influence the WADA hGH isoform immunoassay. Drug Testing and Analysis DOI 10.1002/dta.1557

Piper T, Emery C, Thomas A, Saugy M, Thevis M. Combination of carbon isotope ratio with hydrogen isotope ratio determinations in sports drug testing. Anal Bioanal Chem. 2013 Apr 9. [Epub ahead of print]

Reichel C, Thevis M. Gel electrophoretic methods for the analysis of biosimilar pharmaceuticals using the example of recombinant erythropoietin. Bioanalysis. 2013 Mar;5(5):587-602

Schänzer W, Guddat A, Thomas A, Opfermann G, Geyer H, Thevis M. Expanding analytical possibilities concerning the detection of stanozolol misuse by means of high resolution/high

accuracy mass spectrometric detection of stanozololglucuronides in human sports drug testing. *Drug Test Anal.* 2013, doi: 10.1002/dta.1516. [Epub ahead of print]

Thevis M, Kuuranne T, Geyer H, Schänzer W. Annual banned-substance review: analytical approaches in human sports drug testing. *Drug Test Anal.* 2013, 5(1):1-19

Thevis M, Thomas A, Beuck S, Butch A, Dvorak J, Schänzer W. Does the analysis of the enantiomeric composition of clenbuterol in human urine enable the differentiation of illicit clenbuterol administration from food contamination in sports drug testing? *Rapid Commun. Mass Spectrom.* 2013, 27, 507–512

Thevis M, Geyer L, Geyer H, Guddat S, Dvorak J, Butch A, Sterk SS, Schänzer W Adverse analytical findings with clenbuterol among U-17 soccer players attributed to food contamination issues. *Drug Test Anal.* 2013 Apr 4. doi: 10.1002/dta.1471. [Epub ahead of print]

Thevis M, Schänzer W, Geyer H, Thieme D, Große J, Rautenberg C, Flenker U, Beuck S, Thomas A, Holland R, Dvorak J: Traditional Chinese Medicine and Sports Drug Testing: Identification of Natural Steroid Administration in Doping Control Urine Samples Resulting from Musk (Pod) Extracts *Br J Sports Med* 2013, 47, 109-114.

Thevis M, Piper T, Beuck S, Geyer H, Schänzer W Expanding sports drug testing assays: Mass spectrometric characterization of the selective androgen receptor modulator drug candidates RAD140 and ACP-105. *Rapid Commun. Mass Spectrom.* 2013, 27, 1173–1182

Thevis M, Krug O, Schänzer W Monitoring phosphodiesterase-4 inhibitors using liquid chromatography/(tandem) mass spectrometry in sports drug testing *Rapid Commun Mass Spectrom.* 2013 May 15;27(9):993-1004.

Thevis M, Piper T, Horning S, Juchelka D, Schänzer W. Hydrogen isotope ratio mass spectrometry and high-resolution/high-accuracy mass spectrometry in metabolite identification studies: Detecting target compounds for sports drug testing. *Rapid Commun. Mass Spectrom.* 2013, 27, 1904–1912

Thevis M, Thomas A, Schänzer W Targeting prohibited substances in doping control blood samples by means of chromatographic-mass spectrometric methods. *Anal Bioanal Chem.* 2013 Aug 8. [Epub ahead of print]

Thomas A, Vogel M, Piper T, Krug O, Beuck S, Schänzer W, Thevis M. Quantification of AICAR-ribotide concentrations in red blood cells by means of LC-MS/MS. *Anal Bioanal Chem.* 2013 Jul 5. [Epub ahead of print]

Thomas A, Walpurgis K, Delahaut P, Kohler M, Schänzer W, Thevis M. Detection of small interfering RNA (siRNA) by mass spectrometry procedures in doping controls. *Drug Test Anal.* 2013 Aug 5. doi: 10.1002/dta.1519. [Epub ahead of print]

Walpurgis K, Kohler M, Thomas A, Wenzel F, Geyer H, Schänzer W, Thevis M Effects of gamma irradiation and 15 days of subsequent ex vivo storage on the cytosolic red blood cell proteome analyzed by 2D-DIGE and Orbitrap MS. *Proteomics Clin Appl.* 2013 May 13. doi: 10.1002/prca.201300009. [Epub ahead of print]