Laboratoire des Courses Hippiques

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Publications dans des revues internationales à comité de lecture

A. Barnabé, V. Delcourt, B. Loup, W. Montanuy, S. Trevisiol, M.A. Popot, P. Garcia, L. Bailly-Chouriberry. **Convolutional neural networks assisted peak classification in targeted LC-HRMS/MS for equine doping control screening analyses**. **Anal. Chem., 2025, 97, 3236-3241.** **https://doi.org/10.1021/acs.analchem.4c03608**

B. Loup, F. André, N. Leuenberger, A. Marchand, A. Barnabé, V. Delcourt, P. Garcia, M.A. Popot, L. Bailly-Chouriberry. **New transcriptomic biomarkers for detection of the recombinant human erythropoietin (rHuEPO) MirCERA in horses. Drug Test. Anal., 2024, 1-10.** **https://doi.org/10.1002/dta.3812**

K.Y. Kwok, W.H. Kwok, M.A. Popot, M. Jaubert, L. Bailly-Chouriberry, B.T. Heffron, L. Brooks, C.K. Choo, J. Tso, R. Tso, B. McKenzie, N. Selvadurai, D. Batty, B. Gray, A. Hudson, S. Ragazzoni, C. Mariani, T.S.M. Wan, E.N. M. Ho. **Doping control analysis of total carbon dioxide (TCO2) in equine plasma by headspace gas chromatography-mass spectrometry (HS-GC/MS). Drug Test. Anal., 2024, 1-9.** **https://doi.org/10.1002/dta.3832**

S. Trevisiol, M.A. Popot, P. Garcia, S. Boyer, M. Caroff, L. Drif, W. Taleb, S. Tendon, Y. Moulard, L. Bailly-Chouriberry. **In vivo comparative study of hemp straw exposure and cannabidiol oil administration in horse urine. Drug Test. Anal., 2024, 1-7.** **https://doi.org/10.1002/dta.3783**

V. Delcourt, J. Pinetre, B. Chabot, A. Barnabé, M. Cacault, B. Loup, F. Becher, F. Fenaille, M.A. Popot, P. Garcia, L. Bailly-Chouriberry. **High-throughput equine doping controls on a trapped ion mobility quadrupole-time-of-flight mass spectrometer: Technical considerations of dia/slice/prmPASEF applied to the long-term detection of monoclonal antibodies. Drug Test. Anal., 2024, 1-8.** **https://doi.org/10.1002/dta.3797**

V. Delcourt, P. Garcia, B. Chabot, N. Aber, M. Pescher, M. Cacault, P. Scholtes, B. Loup, A. Barnabé, M.A. Popot, L. Bailly-Chouriberry. **Equine doping controls of Thymosin β4: A population study and strategy for misuse detection. Drug Test. Anal., 2024, 1-8**. **https://doi.org/10.1002/dta.3806**

A. Barnabé, B. Loup, A. Cawley, V. Delcourt, P. Garcia, M.A. Popot, J. Keledjian, L. Bailly-Chouriberry. **Bayesian individual limits for IGF-1 monitoring in equine plasma : Implementation in the equine biological passport. Drug Test. Anal., 2024, 1-8.** **https://doi.org/10.1002/dta.3795**

B. Seguí Pedrosa, C. Dujardin, B. Moses, C. Thompson, P. Sarasola, F. Gattacceca, B. Loup, P. Garcia, M.A Popot, L. Bailly-Chouriberry. **Detection times of clodronic acid in horses with orthopaedic disease. J. Vet. Pharmacol. Therap., 2024, 47, 380-389.**
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B. Gray, L. Bailly-Chouriberry, W.H. Kwok, S. Yamada, M. Yamada, B. Moeller. **Association of Official Racing Chemists guidelines for drug testing in animal hair for doping control. Drug Test. Anal., 2024, 1-7.**
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J. Pinètre, V. Delcourt, F. Becher, B. Chabot, A. Barnabé, F. Fenaille, M.A. Popot, P. Garcia, L. Bailly-Chouriberry. **Émergence des bio-thérapeutiques et implications pour le bien-être animal et le contrôle antidopage équin. L'actualité chimique, 2024, 492, 19-21.**
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J. Pinètre, V. Delcourt, F. Becher, P. Garcia, A. Barnabé, B. Loup, M.A. Popot, F. Fenaille, L. Bailly-Chouriberry. **High-throughput untargeted screening of biotherapeutic macromolecules in equine plasma by UHPLC-HRMS/MS: Application to monoclonal antibodies and Fc-fusion proteins for doping control. Drug Test. Anal., 2023.**
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M. Viljanto, Z. Kaabia, P. Taylor, P. Hincks, T. Muir, J. Habershon-Butcher, L. Bailly-Chouriberry, J. Scarth. **Detection of boldenone in the urine of female horses-ex vivo formation versus administration. Drug Test Anal., 2023.**
https://doi.org/10.1002/dta.3521

C. Cloteau, Z. Kaabia, B. Le Bizec, L. Bailly-Chouriberry, G. Dervilly. **From targeted methods to metabolomics based strategies to screen for growth promoters misuse in horseracing and livestock: A review. Food Control, 2023, 148.**
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C. Cloteau, G. Dervilly, Z. Kaabia, F. Bagilet, V. Delcourt, B. Loup, Y. Guitton, A.L. Royer, F. Monteau, P. Garcia, M.A. Popot, B. Le Bizec, L. Bailly-Chouriberry. **From a non-targeted metabolomics approach to a targeted biomarkers strategy to highlight testosterone abuse in equine. Illustration of a methodological transfer between platforms and laboratories. Drug Test. Anal., 2022, 14, 864-878.**
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M. Viljanto, Z. Kaabia, P. Taylor, T. Muir, J. Habershon-Butcher, L. Bailly-Chouriberry, J. Scarth. **Differentiation of boldenone administration from ex vivo transformation in the urine of castrated male horses. Drug Test. Anal., 2022.**
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