



**Monday February 1st, 2016 - 12h15**

Department of Physiology, Bugnon 7, 1005 Lausanne  
seminar room, 6th floor

**Prof. Serge Rudaz**

School of Pharmaceutical Sciences in Geneva

## "Metabolomics: Untargeted is the target"

**Host:** Dr. Florianne Tschudi-Monnet

Serge Rudaz is interested in(UHP)LC and CE coupled to MS, advances in sample preparation, analysis of pharmaceuticals and counterfeit medicines, biological matrices, clinical and preclinical studies, including metabolism and toxicological analysis. He is an expert in various chemometric approaches, including experimental design (DOE) validation and regulation (ISO17025) as well as multivariate data analysis (MVA) for metabolomics.

### References

Treatment with KLEPTOSE® CRYSMEB reduces atherogenesis in ApoE<sup>-/-</sup> mice impacting serum lipid profile and Th1 lymphocyte-mediated inflammation F. Montecucco, S. Lenglet, F. Carbone, S. Boero, G. Pelli, F. Burger, M. Bertolotto, A. Nencioni, F. Dallegrì, R. A. Fraga-Silva, L. Fougere, C. Elfakir, A.-L. Gassner, S. Rudaz, N. Vuilleumier, A. Poggi, F. Mach, *Vascular Pharmacology* (2015), In press

Steroidomic footprinting based on ultra-high performance liquid chromatography coupled with qualitative and quantitative high-resolution mass spectrometry for the evaluation of endocrine disrupting chemicals in H295R cells D. Tonoli, C. Fürstenberger, J. Boccard, D. Hochstrasser, F. Jeanneret, A. Odermatt, S. Rudaz *Chemical Research in Toxicology* (2015), DOI: 10.1021/tx5005369

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Aminoglycoside analysis in food of animal origin with a zwitterionic stationary phase and liquid chromatography - tandem mass spectrometry, C. Diez, D. Guillardme, A. Staub Sporri, E. Cognard, D. Ortelli, P. Edder, S. Rudaz, *Analytica Chimica Acta* (2015), In Press, doi:10.1016/j.aca.2015.03.050

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