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The relevance of preanalytical factors in metabolomics and lipidomics research

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Appendices

List of publications

A. Gil, D. Siegel, H. Permentier, D.J. Reijngoud, F. Dekker, R. Bischoff. Stability of energy metabolites—An often overlooked issue in metabolomics studies: A review. *Electrophoresis* (2015) 36, 2156–2169. DOI: 10.1002/elps.201500031

A. Gil, D. Siegel, S. Bonsing-Vedelaar, H. Permentier, D.J. Reijngoud, F. Dekker, R. Bischoff. The Degradation of Nucleotide Triphosphates Extracted Under Boiling Ethanol Conditions is Prevented by the Yeast Cellular Matrix. *Metabolomics* (2017) 13:1, 1-10. DOI: 10.1007/s11306-016-1140-4

A. van der Pol, A. Gil, H.H.W. Silljé, J. Tromp, E.S. Ovchinnikova, et al. Accumulation of 5-oxoproline in myocardial dysfunction and the protective effects of OPLAH. *Science Translational Medicine* (2017) 9, 1-11. DOI: 10.1126/scitranslmed.aam8574

A. Gil*, W. Zhang*, J.C. Wolters, H. Permentier, P. Horvatovich, M.R. Heiner-Fokkema, D.J. Reijngoud, R. Bischoff. Omics Technology: Lipidomics and Its Pitfalls During the Pre-analytical Stage. Book chapter in: *Encyclopedia of Analytical Science, 3rd edition*. 2018. DOI: 10.1016/B978-0-12-409547-2.14002-8

A. Gil*, W. Zhang*, J.C. Wolters, H. Permentier, T. Boer, P. Horvatovich, M.R. Heiner-Fokkema, D.J. Reijngoud, R. Bischoff. One- vs Two-phase Extraction: Re-evaluation of Sample Preparation Procedures for Untargeted Lipidomics in plasma samples. *Analytical and Bioanalytical Chemistry* (2018). Accepted. DOI: 10.1007/s00216-018-1200-x

A. van der Pol, A. Gil, J. Tromp, H.H.W. Silljé, D.J. van Veldhuisen, et al. OPLAH ablation leads to accumulation of 5-oxoproline, oxidative stress, fibrosis and elevated fillings pressures in a murine model for heart failure with a preserved ejection fraction. *Cardiovascular Research* (2018). Accepted. DOI: 10.1093/cvr/cvy187

A. Gil, A. van der Pol, P. van der Meer, R. Bischoff. LC-MS Analysis of Key Components of the Glutathione Cycle in Tissues and Body Fluids from Mice with Myocardial Infarction. *Journal of Pharmaceutical and Biomedical Analysis* (2018). Accepted.

*The authors contributed equally

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