

## Selected publications

- 1) Singh, K. D.; Vidal-de-Miguel, G.; Gaugg, M. T.; Ibáñez, A.; Zenobi, R.; Kohler, M.; Frey, U.; Sinues, P. M. L., Translating Secondary Electrospray Ionization–High Resolution Mass Spectrometry to the Clinical Environment. *J. Breath Res.* 2018, *12*, 027113. [link](#)
- 2) Tejero Rioseras, A.; Garcia Gomez, D.; Ebert, B. E.; Blank, L. M.; Ibanez, A. J.; Sinues, P. M. L., Comprehensive Real-Time Analysis of the Yeast Volatilome. *Sci. Rep.* 2017, *7* (1), 14236. [link](#)
- 3) Gaugg, M. T.; Engler, A.; Nussbaumer-Ochsner, Y.; Bregy, L.; Stoberl, A. S.; Gaisl, T.; Bruderer, T.; Zenobi, R.; Kohler, M.; Sinues, P. M. L., Metabolic effects of inhaled salbutamol determined by exhaled breath analysis. *J. Breath Res.* 2017, *11* (4), 046004. [link](#)

*Selected as [Journal Breath Research Highlights of 2017 collection](#). This selection of articles includes the best and most influential research published in JBR, representing cutting edge topics. The also received the highest praise from international referees and a high number of downloads during 2017.*

- 4) Rioseras, A. T.; Gaugg, M. T.; Sinues, P. M. L., Secondary electrospray ionization proceeds via gas-phase chemical ionization. *Anal Methods-Uk* 2017, *9* (34), 5052-5057. [link](#)
- 5) Barrios-Collado, C.; García-Gómez, D.; Zenobi, R.; Vidal-de-Miguel, G.; Ibáñez, A. J.; Martinez-Lozano Sinues, P., Real Time Read-Out of Plant Metabolism. *CHIMIA Int. J. Chem.* 2016, *70*, 660-660

*Selected as [Highlight of Analytical Sciences by the Swiss Chemical Society](#)*

- 6) Gaugg, M. T.; Garcia Gomez, D.; Barrios Collado, C.; Vidal de Miguel, G.; Kohler, M.; Zenobi, R.; Martinez-Lozano Sinues, P., Expanding metabolite coverage of real-time breath analysis by coupling a universal secondary electrospray ionization source and high resolution mass spectrometry – a pilot study on tobacco smokers. *J. Breath. Res.* 2016, *10* (1), 016010. [link](#)
- 7) Barrios Collado, C.; Garcia Gomez, D.; Zenobi, R.; Vidal de Miguel, G.; Ibañez, A. J.; Martinez-Lozano Sinues, P., Capturing *in vivo* plant metabolism by real time analysis of low to high molecular weight volatiles. *Anal. Chem.* 2016, *88* (4), 2406-12. [link](#)
- 8) Barrios-Collado, C.; Vidal-de-Miguel, G.; Martinez-Lozano Sinues, P., Numerical Modeling and Experimental Validation of a Universal Secondary Electrospray Ionization Source for Mass Spectrometric Gas Analysis in Real-Time. *Sensors Actuators B: Chem.* 2016, *223*, 217–225. [link](#)
- 9) Ballabio, C.; Cristoni, S.; Puccio, G.; Kohler, M.; Sala, M. R.; Brambilla, P.; Martinez-Lozano Sinues, P. Rapid identification of bacteria in blood cultures by mass-spectrometric analysis of volatiles. *J. Clin. Pathol.* 2014, *67*, 743-746. [link](#)
- 10) Schwarz, E. I.; Martinez-Lozano Sinues, P.; Bregy, L.; Gaisl, T.; Garcia Gomez, D.; Gaugg, M. T.; Suter, Y.; Stebler, N.; Nussbaumer-Ochsner, Y.; Bloch, K. E.; Stradling, J. R.; Zenobi, R.; Kohler, M., Effects of CPAP therapy withdrawal on exhaled breath pattern in obstructive sleep apnoea *Thorax* 2016, *71* (2), 110-7. [link](#)
- 11) Li, X.; Martinez-Lozano Sinues, P.; Dallmann, R.; Bregy, L.; Hollmén, M.; Proulx, S.; Brown, S. A.; Detmar, M.; Kohler, M.; Zenobi, R. Drug pharmacokinetics determined by real-time analysis of mouse breath. *Angew. Chem.* 2015, *54* (27), 7815-8. [link](#)