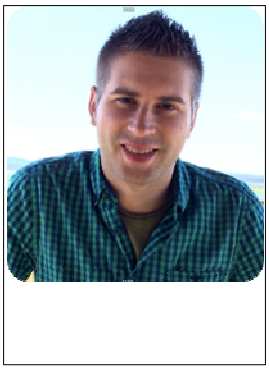
Hospital Universitario Ramón y Cajal

**Servicio de Endocrinología y Nutrición**



**Samuel Moncayo Martín**
**Licenciado en Ciencias Químicas**
**Doctor en Químicas por la Universidad Complutense de Madrid**

| **BIOGRAPHICAL SKETCH** | | | |
|---|---|---|---|
| Nombre: Samuel Moncayo<br>22 de Octubre de 1988, Madrid | Puesto Actual: Investigador Postdoctoral en Biomedicina | | |
| **Datos Académicos** | | | |
| **Centro de Estudios** | **Titulación** | **Año** | **Campo de Estudio** |
| Universidad Complutense de Madrid | Ph.D. | 2016 | Química Láser y espectroscopia |
| Universidad Complutense de Madrid | M.S. | 2012 | Química y análisis |
| Universidad Complutense de Madrid | B.S. | 2011 | Química |

## A. Puestos Previos

2016 Investigador Postdoctoral en el Instituto de la Luz y Materia (ILM, CNRS) Lyon, Francia
2012 – 2016 Investigador Predoctoral, Universidad Complutense de Madrid
2014 Estancia Predoctoral en Universidad Comenius de Bratislava, Slovakia

## B. Producción Científica

Número total de Citas: 98
h-index: 6
i10-index: 5
Funte Google Scholar (Junio, 2017)

### B.1 Publicaciones

1. Florian Trichard; et al. 2017. Evaluation of compact VUV spectrometer for elemental imaging by laser-induced breakdown spectroscopy: application to mine core characterization Journal of Analytical Atomic Spectrometry.

2. Samuel Moncayo Martin; et al. 2017. Qualitative and quantitative analysis of milk for the detection of adulteration by Laser Induced Breakdown Spectroscopy (LIBS); Food Chemistry. 232, pp.322-328.

3. Florian Trichard; et al. 2017. Quantitative elemental imaging of heterogeneous catalysts using laser-induced breakdown spectroscopy Spectrochimica Acta Part B: Atomic Spectroscopy. 133-1, pp.45-51.

4. Samuel Moncayo; et al. 2017. Multi-elemental imaging of paraffin-embedded human samples by laser-induced breakdown spectroscopy. Spectrochimica Acta Part B: Atomic Spectroscopy. 133-1, pp.40-44.

5. Jorge O. Caceres; et al. (10/4). 2016. Megapixel multi-elemental imaging by Laser Induced Breakdown Spectroscopy in paleoclimate studies. Nature Scientific Reports.

6. Norberto Boggio; et al. 2016. Corona discharge induced plasma spectroscopy(CDIPS) for quantitative analysis of gas mixtures; Journal of Analytical Atomic Spectrometry. 31, pp.2053-2059.

7. Samuel Moncayo Martin; et al. 2016. Classification of red wine based on its protected designation of origin (PDO) using Laser-induced Breakdown Spectroscopy (LIBS); Talanta. 158, pp.185-191.

8. Asier García Escárzaga; et al. 2015. Mg/Ca ratios measured by laser induced breakdown spectroscopy (LIBS): a new approach to decipher environmental conditions Journal of Analytical Atomic Spectrometry. 30, pp.1913-1919.

9. Samuel Moncayo Martin; et al. 2015. Evaluation of supervised chemometric methods for sample classification by Laser Induced Breakdown Spectroscopy Chemometrics and Intelligent Laboratory Systems. pp.354-364.

10. Samuel Moncayo Martin; et al. 2014. Discrimination of Human bodies from Bones and Teeth Remains by Laser Induced Breakdown Spectroscopy and Neural Networks Spectrochimica Acta, Part B: Atomic Spectroscopy. pp.21-25.

11. Sadia Manzoor; et al. 2014. Rapid identification and discrimination of bacterial strains by laser induced breakdown spectroscopy and neural networks Talanta. pp. 65-70.

12. Alicia Marin Roldan; et al. 2013. Determination of the postmortem interval by Laser Induced Breakdown Spectroscopy using swine skeletal muscles Spectrochimica Acta, Part B: Atomic Spectroscopy. pp.186-191.

13. Jorge Omar Caceres; et al. 2013. Application of Laser Induced Breakdown Spectroscopy and Neural Network to Olive Oils Analysis Applied Spectroscopy. 67, pp.1064-1072.

14. Lydia Ugena Garcia-Consuegra; et al. 2016. Identification and discrimination of brands of fuels by Gas Chromatography and Neural

Networks algorithm in forensic research. Journal of Analytical Methods in Chemistry. 2016, pp.1-7

15. Joaquín J Camacho; et al. 2015. Plume dynamics of laser-produced swine muscle tissue plasma. Journal of Applied Physics. 70 (7) pp. 1228-38

16. Sadia Manzoor; et al. 2014. Fast Bacterial Identification by Laser Induced Breakdown Spectroscopy.Proceedings Book: Industrial, Medical and Environmental Applications of Microorganisms: Current Status and Trends.

**B.2 Patentes de invención**

1. Jorge O. Caceres; Roberto Izquierdo Hornillos; Samuel Moncayo Martin; Juan Daniel Rosales Martinez. P201400880. Método de análisis de bebidas alcohólicas España. Universidad Complutense de Madrid.

## C. Otros Méritos

Premio Mejor Póster 2017. COLLOQUIUM SPECTROSCOPICUM INTERNATIONALE XL