

AIDA REGUERA GALÁN

PhD at University of Oviedo



Academic Studies

BS in Chemistry Sciences, University of Oviedo (2009)

- Erasmus grant: Department of Chemistry and Centre for Materials Discovery (CMD). University of Liverpool, United Kingdom (2008-2009, 9 months)

MS in Chemical, Biochemical and Structural Analysis, University of Oviedo (2010)

PhD in Analytical Chemistry, University of Oviedo (FICYT grant) (2015)

Professional Experience

Pre-doctoral assistant researcher - Faculty of Chemistry, University of Oviedo (2010-2011, 2014-2015)

PhD student. FICYT grant - Faculty of Chemistry, University of Oviedo (2011-2014)

Contact

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Research topics

Research Lines:

-Development and application of new methodologies for isotope ratio measurement in solid samples by LA-ICP-MS for traceability studies.

-Tagging and codification of inks and paper with molybdenum enriched isotopes and detection of the tag by means of LA-ICP-Q-MS for authentication and forensic purposes.

-Studies of the assimilation of molybdenum enriched isotopes throughout *Phaseolus vulgaris* tagged plants and detection of the tag in seeds by means of LA-ICP-Q-MS for seeds dispersal evaluation.

-Development of new methodologies for lead isotope ratio measurement in minerals and archaeological artefacts by means of LA-MC-ICP-MS for heterogeneities evaluation, provenance studies and geochemical dating.

-Development of new methodologies for strontium isotope ratio measurement in rubidium-containing solid samples (minerals, beans and otoliths) by means of LA-MC-ICP-MS for traceability purposes.

Mass Spectrometry Experience:

Ionization Sources: Inductively Coupled Plasma (ICP).

Mass Spectrometers: Quadrupole (Agilent 7500ce), Multicollector (Thermo Scientific, Neptune *Plus*).

Sample introduction and/or separation techniques: Laser ablation (Cetac LSX-213) and liquid conventional nebulization.

Fields: isotopic analysis for authentication and provenance studies (forensics, archaeometry, archaeometallurgy, foodstuff and biology).