

Development of 'Ready to Use Kits' for the simultaneous qualification and quantification of drugs in different matrices using Mass Spectrometry, expanded with the application of multimodal imaging techniques

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Development of "Ready to Use Kits" for the simultaneous qualification and quantification of drugs in different matrices using Mass Spectrometry, expanded with the application of multimodal imaging techniques.

By Michele Genangeli, 3 December 2019

1. Here the necessity to develop, validate and commercialize new sensitive, robust and reproducible analytical methodologies that can quantify and qualify several endogenous and exogenous compounds in a single assay. – *This thesis*
2. An untargeted technique such as MALDI-MSI led us to the discovery of the multi-organ/synergistic biological effects of L.E. providing a better insight of its cholesterol-lowering properties in rat models – *This thesis*
3. Establishing a reliable QC for MSI analysis is of utmost importance to monitor the sample preparation and analysis of large cohorts of samples – *This thesis*
4. REIMS is a valuable and versatile tool for instantaneous identification/classification of tissue samples – *This thesis*
5. Early diagnosis of disease is the business of the general public even more than of the medical profession – *J.B.S. Haldane*
6. The science of today is the technology of tomorrow – *Edward teller*
7. Science is a beautiful gift to humanity; we should not distort it – *A. P. J. Abdul Kalam*
8. These methodologies were not developed as a means to an end, but aimed to start a collaboration with a company – *This thesis, valorization*
9. The present is theirs; the future, for which I really worked, is mine – *Nikola Tesla*
10. I'm going to have to science the s*it out of this! – *Neil deGrasse Tyson*
11. Homo faber fortunae suae – *Appius Claudius Caecus*