Título del Proyecto	**Integrating Magnetic Resonance Spectroscopyand Multimodal Imaging for Research and Education in MEDicine – INSPiRE-MED**
Nº de expediente asignado	GA: 813120
Abstract	INSPiRE-MED will provide research and training to 15 early career researchers in the field of medical imaging, specifically Magnetic Resonance Spectroscopy (MRS) and Spectroscopic Imaging (MRSI), combined with MR Imaging and Positron Emission Tomography (PET). INSPiRE-MED Fellows will acquire skills to develop careers contributing to innovative technological advances in medical imaging in a multi-disciplinary environment encompassing physics, mathematical and computer sciences leading to applications in medicine and biological sciences. The 12 academic and 9 industrial partners will provide the Fellows with transferable and generic skills as well as a comprehensive, wide-ranging education on the basic principles of medical imaging and image analysis. This fundamental knowledge will be combined with in-depth learning in a specific area, through local delivery via graduate schools, programme-wide INSPiRE-MED training activities and workshops and personal academic supervision by two INSPiRE-MED supervisors. This will enable them to successfully participate in developing new tools for clinicians. MRS is a unique, non-invasive molecular technique that has proved useful for diagnosis and therapy management in disease models and patients. Despite its potential, the clinical uptake of MRS has lagged behind that of MRI and PET. Thus, INSPiRE-MED will have 3 objectives, encapsulated in 3 research Work Packages (WP): 1) Development of novel acquisition and processing techniques allowing MRS(I) to become a key tool in medical imaging (WP1); 2) Integration of innovative MRS(I) techniques in several key clinical and pre-clinical applications including a multimodal metabolic approach based on MR/PET (WP2); 3) Translation of most advanced research in MRS(I) and

	machine learning into clinical routine by means of a fully automatic software suite, building on the well-known jMRUI package (http://www.jmrui.eu) to provide a prime tool in personalized medicine (WP 3).
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Enlaces:	http://inspire-med.eu/