



1506  
UNIVERSITÀ  
DEGLI STUDI  
DI URBINO  
CARLO BO

## PROGETTO DI RICERCA

### *Innovation in Real Time detection*

Real-time in Electron Ionization Detection (REI) is a new system to introduce analytes directly into a high vacuum electron ionization (EI) source. REI allows the rapid and direct analysis of molecules present on various surfaces avoiding the sample preparation step. A suitable solvent is deposited onto the sample surface where analytes are dissolved and transferred into the EI ion source of a single quadrupole MS by the effect of the high vacuum using a sampling tip. Right after, the MS data acquisition begins. The system is at a prototype stage and the exploration of different development directions is needed