

26G-ISMS19 **Development of a Fully Automated HPLC System (ASAPrep™) Designed for Multiple Compound Purifications**

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An automated decision-making process enabling seamless transitioning from analytical to preparative scale has been developed in collaboration with Shimadzu to improve purification process by Reversed-Phase High-Performance Liquid Chromatography-Mass Spectrometry (RP-HPLC-MS). Our method scouting protocol is based on database mining of alternative conditions to identify profitable separation conditions, like acidic or neutral mobile phases. An intelligent data processing software, in particular “MS spectral purity” significantly improves accuracy of decision-making. This innovative system, named “ASAPrep™ (Automated Scale-up from Analytical to Preparative)” has just been released globally in August 2014 from Shimadzu.

In this poster presentation, we will show the advantages of this system, while highlighting the novelty of the purification procedures compared to the existing technology.