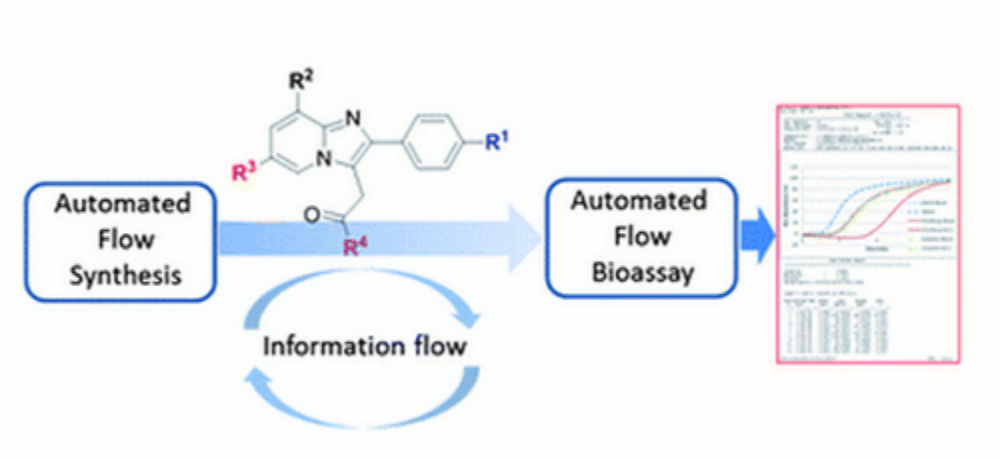
Publication 27: Flow Syntheses of GABAA Agonists and their Biological Evaluation through the use of In-line Frontal Affinity Chromatography



The flow of information between chemical and biological research can present a bottleneck in pharmaceutical research.

We report here on the use of flow processes to perform synthesis and biological evaluation in an integrated manner. As proof of concept, a flow synthesis of a series of imidazo[1,2]-pyridines, including zolpidem and alpidem, was developed using the FlowSyn Auto-LF combinatorial library synthesis platform and connected to a Frontal Affinity Chromatography screening assay to investigate their interaction with Human Serum Albumin (HSA).

L. Guetzoyan, N. Nikbin, I. R. Baxendale, S. V. Ley, Chem. Sci., 2013,4, 764-769.