

TITOLO  
 (maiuscolo)

 APPLICATION OF THE ARACHNO™ TECHNOLOGY FOR THE PARALLEL SYNTHESIS OF A  
 LIBRARY OF ASPIRIN ANALOGUES

Autore (i)

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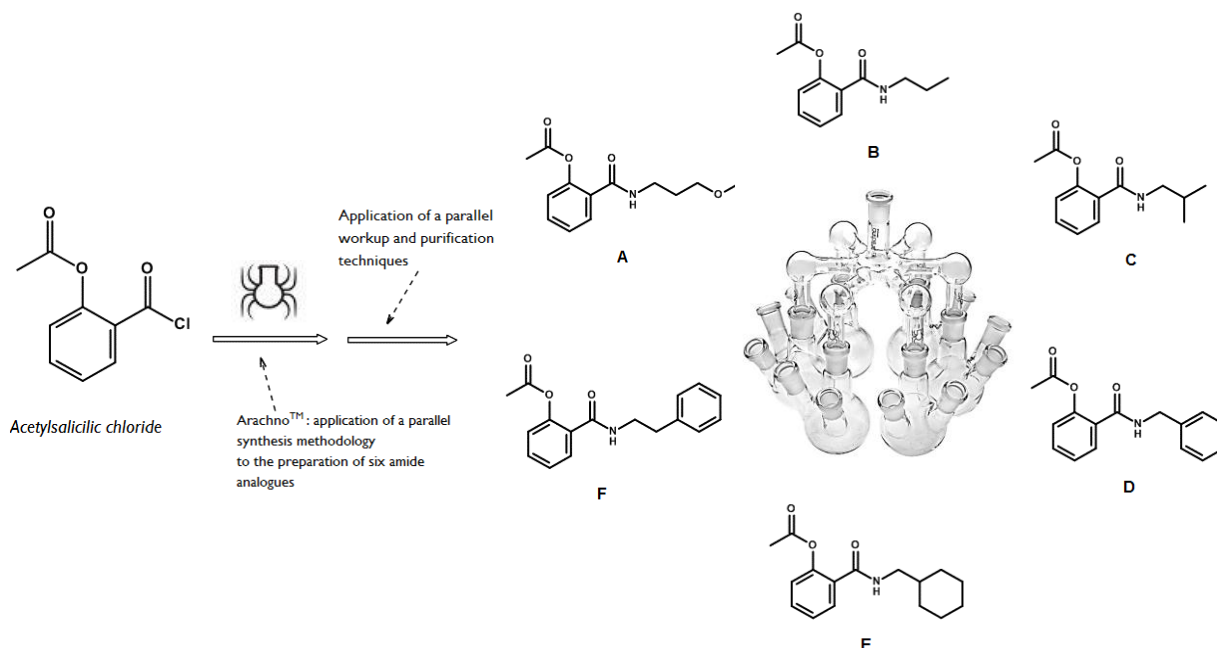
 Ente  
 di appartenenza

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Riassunto

 Carattere: ARIAL  
 Corpo: 10  
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The *parallel synthesis* is a powerful tool in the hand of an Organic Chemist. It is usually applied to accelerate the development of a single target compound (*process optimization*) or the obtainment of a library of molecules (*library generation*), this latter situation very frequent in *Drug Design* during *hit-to-lead* processes. Usually the application of parallel synthesis approaches, because the expensive technology involved, are restricted to high technological research laboratories. In this article is firstly presented an application of *Arachno™* for the parallel preparation of a library of *Aspirin* (acetylsalicylic acid) analogues. Powered by *beenext S.r.L.*, a Spin-Off of the *University of Turin*, *Arachno™* is a revolutionary, *easy-to-get* and low cost technology that allows the performance of up to six reaction at the same time. In this occasion, the *Arachno™* technology allowed the obtainment of the six Aspirin analogues in pure form inside less a one day of experimental work.



*Arachno™* technology was carefully designed in order to be a fundamental companion in the Chemist laboratory daily life. For example is possible use *Arachno™* for stirring under inert atmosphere or rate reactions with any type of gas of up to six reaction mixtures. The reaction mixtures could be cooled or heated at reflux and, if needed, could be also concentrated to dryness avoiding the time consuming multievacuation step. *Arachno™* also allows to conduct reactions with different solvents thanks to its expansion chamber that avoid any cross contamination between reaction vessels. For all its features *Arachno™* can be used to perform any type of experiment working in parallel, such as *Medicinal Chemistry*, *Organic Synthesis*, *Synthesis on Solid Support*, *Synthesis of Nanoparticles*.

**IMPORTANTE: inviare il testo in formato (word o pdf) editabile e NON in formato immagine.**

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