

Welcome to the **Flow Synthesis Online** newsletter.

This publication is released bi-monthly and will showcase new applications, events, and equipment in the Flow Synthesis world.

Vapourtec sent this email to you because you have in the past expressed an interest in Vapourtec products. If you do not want to receive future issues of this newsletter, you may unsubscribe now by scrolling to the bottom of this email and clicking on the unsubscribe link. If you think a colleague may be interested, please feel free to forward it.

## Product News

### Precise cooled reactions : $-70^{\circ}\text{C}$ (with no recirculating chiller !)

The Vapourtec R Series system now comes with a facility for cooled reactions. Simple, remarkably compact and easy to use, this facility permits one or two reactors to be independently controlled at temperatures down to  $-70^{\circ}\text{C}$ .

Best of all, the system requires no bulky, expensive recirculating chiller and can be added as an upgrade to existing R Series systems.

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## Is it your first time ?

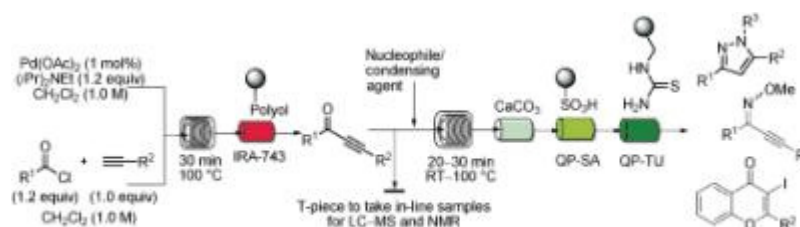
If this is the first issue of the newsletter that you've received, you might like to take a look at what you've missed in some previous issues.

[click here to see newsletter archive](#)

## Publications

### Multi-Step Synthesis by Using Modular Flow Reactors: The Preparation of Yneones and Their Use in Heterocycle Synthesis

Ian R. Baxendale, Dr. <sup>1</sup>,  
Søren C. Schou <sup>2</sup>,  
Jörg Sedelmeier, Dr. <sup>1</sup>,  
Steven V. Ley, Prof. <sup>1</sup>

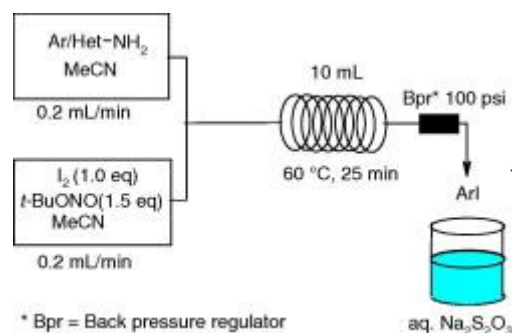


<sup>1</sup>ITC, Department of Chemistry,  
University of Cambridge  
<sup>2</sup>LEO Pharma, Medicinal Chemistry Research (Denmark)

**Multi-step in flow:** The palladium-catalysed acylation of terminal alkynes for the synthesis of yneones as well as their further transformation to various heterocycles in a continuous-flow mode is presented. Furthermore, an extension of the simple flow configuration that allows for easy batch splitting and the generation of a heterocyclic library is described (see scheme).

[click here to go straight to the publication](#)

### A Safe and Reliable Procedure for the Iododeamination of Aromatic and Heteroaromatic Amines in a Continuous Flow Reactor



\* Bpr = Back pressure regulator

Laia Malet-Sanz, Julia Madrzak, Rhian S. Holvey and Toby Underwood

Research Chemistry, Pfizer Global Research and Development, Sandwich, UK

A method for the safe and reliable iododeamination of aromatic and heteroaromatic amines under copper-free

conditions is described and its scope is evaluated.

[click here to go straight to the publication](#)

## Fully Automated Continuous Flow Synthesis of Highly Functionalized Imidazo[1,2-a] Heterocycles

Ananda Herath, Russell Dahl and Nicholas D. P. Cosford

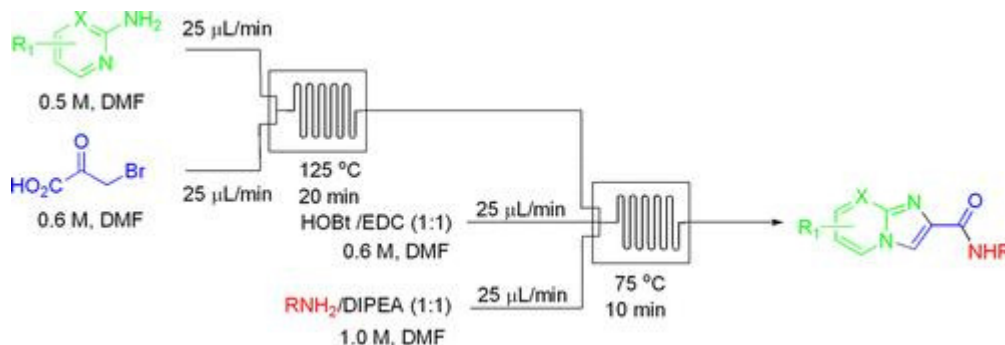
*Program in Apoptosis and Cell Death*

*Research and Conrad Prebys Center for*

*Chemical Genomics,*

*Burnham Institute for*

*Medical Research, La Jolla, USA*



The first continuous flow synthesis of imidazo[1,2-a]pyridine-2-carboxylic acids directly from 2-aminopyridines and bromopyruvic acid has been developed, representing a significant advance over the corresponding in-flask method. The process was applied to the multistep synthesis of imidazo[1,2-a]pyridine-2-carboxamides, including a Mur ligase inhibitor, using a two microreactor, multistep continuous flow process without isolation of intermediates.

[click here to go straight to the publication](#)

The technical articles above are in PDF form and may be immediately downloaded or read online. No registration is required. Enjoy !

Any 3rd Party publications referred to may require a subscription to download.

### About Vapourtec Ltd

Vapourtec develop and manufacture the R Series Flow Chemistry Platform, the leading choice of industrial and academic users worldwide. To find out more about the R Series, or about Flow Chemistry generally, go to

<http://www.vapourtec.co.uk>

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