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Separation Techniques

August 10-12, 2015 San Francisco, USA

Advances and applications of supercritical fluid chromatohgraphy in drug discovery

Gerard Rosse
Dart NeuroScience, USA

Innovative technologies to make better compounds and make them faster have been implemented. The presentation will focus on the design of a highly automated facility with a multistep process for the rapid analysis and purification of small molecules using Supercritical Fluid Chromatography-Mass Spectrometry (SFC-MS). The recent introduction of a new generation of SFC-MS instruments is revolutionizing the field of chromatography. The instrumentation and the robotic infrastructure to support the production of ~10,000 compounds/month will be discussed. Finally the benefits of an enhanced SFC-MS technology platform to increase productivity and decrease costs will be discussed.

Biography

Gerard Rosse is currently Associate Director, Structure Guided Chemistry, at Dart Neuroscience and serves as Adjunct Associate Professor at Drexel University. Prior, he functioned in leadership and scientific positions in medicinal chemistry with Cephalon, Sanofi and F. Hoffman-La Roche. During his industrial tenure, he led multidisciplinary teams and invented pre-clinical candidates for a wide range of therapeutic indications including CNS, Inflammation, Metabolism, Oncology, and Antibacterial agents. His career is also characterized by the implementation of innovative chemical technology and analytical chemistry platforms that accelerated the drug discovery process and reduced costs. He received the PhD degree in chemistry from the University of Basel in Switzerland and Postdoctoral training at Stanford University, California.

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