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Modeling UHPLC separations

HPLC methods dominantly control the quality of many chemical and pharmaceutical products and are used in the research and development in the field of Life Sciences (food analysis, clinical studies and regulatory submissions). For the last 40 years, the usual way of HPLC method development was done by trial and error method, but regulatory agencies are requesting for the new Analytical Quality by Design (AQbD) paradigm, i.e., a systematic development of methods. One way of doing this is using modeling tools, which allow reducing the time for development and supports a better communication between different groups in a global world. The lecture will address the most important aspects of modern UHPLC modeling on the basis of several case studies.

Biography

Imre Molnár studied Analytical Chemistry in Germany and was working with Csaba Horváth as a Post-doc fellow at Yale University in New Haven, CT, USA. After returning to Europe in 1981, he started working at the Institute for Applied Chromatography in Berlin. He is an HPLC method Development Expert and a pioneer of Modern Separation Modeling. Since 1986, he has been working with L R Snyder and J W Dolan on the development of the DryLab Software, which is used successfully worldwide in the pharmaceutical, chemical and life science industries for modeling and visualizing HPLC separations.

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