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Good chemometric practice for analytical applications and compendial use

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A need for new approaches for assuring pharmaceutical products quality has been emerged with the increased complexity of medicines and adopting advanced manufacturing ways. Moreover an increased regulatory emphasis on process understanding and quality has been emerged. Chemometric methods have revolutionized spectroscopic techniques as well as many of the separation techniques that are considered now an integral part of process analytical technology (PAT) and quality by design (QbD). These multivariate modelling techniques are used for the prediction of properties and help to structure data sets and to recognize hidden relationships within the system. To ensure good chemometric practice, many issues have to be investigated including figures of merit, implementation steps, assessment and validation. Favorable environment for the use of multivariate analytical tools is successfully reflected through obtaining signatures and an achievement in submissions of real-time release testing (RTRT).



Biography

Maha Abdelmonem Hegazy has completed her PhD in Analytical Chemistry from the Faculty of Pharmacy, Cairo University. She has worked as Professor of Analytical Chemistry at Cairo University. She has published 105 papers in reputed journals in the field of Chemometrics and Pharmaceutical Analysis. She had achieved 698 citations and an h index of 13 and was ranked within the top ten researchers of Cairo University in the year 2015. She has been serving as a Director of the Computer Center at Faculty of Pharmacy, Cairo University. She has been working in the field of Accreditation of testing laboratories and PT providers since 2010 at the Egyptian Accreditation Council.

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