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Bio

Brigitte Desharnais obtained her Ph.D. in chemistry from Concordia University (Montréal, Canada). She is currently the Toxicology Scientific Coordinator for Development and Quality Assurance at Laboratoire de sciences judiciaires et de médecine légale, the forensic science laboratory for the province of Québec (Canada). Her research focuses on the application of mathematics and statistics in analytical chemistry and forensic toxicology, as well as analytical method development. A member of both SOFT and TIAFT, Dr. Desharnais is also member of the working group drafting the second edition of ANSI/ASB 036 on method validation.

Title

An Introductory Guide to Method Validation Statistical Tools

Abstract

Analyzing data is a large portion of what method validation is all about. Identifying outliers, obtaining a regression equation and evaluating a calibration curve rely on mathematical analysis. Even bias and limit of detection evaluation can rely on statistical procedures! In this Lunch and Learn, we will look at some of these instances where statistics are applied in the method validation context, linking the approaches with the ANSI/ASB 054 and ANSI/ASB 036 (current and upcoming) guidelines. Software options will also be examined. Come and learn the *why* behind the maths, and get out better equipped to use and adapt these different tools in your validation practice!