



Analytical and Bioanalytical Techniques

Hima Bindu Gottam*

Department at the University of Iowa Pharmaceuticals (UI Pharmaceuticals), University of Iowa, Iowa City, Iowa, USA

Editorial

The Journal of Analytical and Bioanalytical Techniques (JABT) has been a publisher of review and full-length research articles with the research breakthroughs, latest research trends, and applications of analytical and bioanalytical techniques. Analytical methodologies are critical for the success of pharmaceutical research as the need for generating accurate data from the beginning of product development is high. The value of the data is directly linked to the analytical method's suitability and reliability for the program as the scientific rationale, study conclusions, and subsequent steps are always impacted by the accuracy of data generated in this phase. Developing a new method from the beginning can be very tedious. Access to existing methodologies helps the researchers expedite their research and benefits them by being topical with current research trends. The Journal of Analytical and Bioanalytical Techniques is an online publisher with open access, originated in the United States. JABT publishes the analytical and bioanalytical techniques related to medical, pharmaceutical, clinical, engineering, and technology and covers the research work on method development and validation, impurity profiling, drug-protein interactions, and bioanalytical methodologies¹. The work published in this journal is related to qualitative and quantitative techniques used to analyze compounds using various technologies such as chromatography, spectroscopy, titrimetric analysis, separation analysis, and pharmaceutical analysis used for the formulation and clinical purposes. The analytical or bioanalytical method starts with selecting the right tool, such as identifying suitable technology or equipment for sample analysis. Often, the method chosen depends on the study's objective; however, specific analyses take more than one analytical method/ technology to support the hypothesis. For instance, determining the content of a drug substance in a plasma sample requires an assay method for the analyte of interest. Still, the same method with tandem mass spectroscopy gives additional information on structure of the molecule. Similarly, impurity profiling is critical in understanding a molecule's degradation pathway and developing and validating a stability indicating method per ICH guidelines [1-2]. Recent research studies on protein aggregation, drug-protein interactions, and the impact of aggregates on bioactivity shed light on new analytical tools which can help understand the functional relationship between two or more variables. All these analytical methods require a great deal of effort to develop the technique first and tweak the method to fit-for-purpose. The same method(s) developed for research can be adapted to a similar project(s) or molecule(s) utilizing the technique and modified to tailor fit the project needs. This helps expedite product development while reducing the redundancy in analytical method development work in the Lab. The JABT publishes the data thoroughly reviewed for its accuracy and statistical significance by multiple experts as part of the reviewing process. Having a group of experts from academia and industry review the article allows for adding different perspectives helping to publish high-quality research work. This is also critical for evaluating the work from research, quality, and regulatory standards to enhance the value of the research work. Some of the research articles that are published through JABT include full validation work following ICH guidelines. For those interested in adapting such a method, a minimal qualification is sufficient for the method use, or the data acts

as a reference point for recreating the method validation data in the laboratory. To validate a method for its application as stability indicating method, system suitability, specificity, method precision, intermediate precision, recovery, forced degradation, and robustness parameters must be established. Using a method that is established as a stability-indicating method is a safer approach than adapting a non-validated method. For most applications, phase-appropriate method validation is followed to balance the resources and the formulation needs for creating a robust method which can be utilized throughout the program with high assurance on the research data. Identifying a suitable analytical method that can be simply adapted to fulfill the initial formulation work is sufficient in most cases. However, it is slightly different for bioanalytical [2] method selection as the clinical study phase requires a validated methodology to determine the drug concentrations in the blood/ plasma samples. Despite the required method changes to fit for purpose, having an analytical method that allows the initiation of research projects is advantageous to any researcher. The work published in JABT is valuable information for all researchers working in bio/ pharmaceutical, medical, clinical, and engineering fields. Data that is published through JABT is well supported by evidence-based research and peer-reviewed for its accuracy and integrity. The unique feature of JABT is how it operates. Effectively leveraging the tools and resources, the publisher created a web of scientific networks connecting scientists worldwide. The publisher's goal and focus are streamlining the review process by reducing the article review backlog by utilizing resources worldwide, and this approach benefited both the authors and the readers. The international recognition of this journal and the reputation of the journal grew stronger within a short period, and this is due to publishers' effort to promote excellent scientific collaboration from researchers across the world, providing a combination of a continuous surge of new scientific findings, and efficient publishing services by standardizing the review process in a faster and effective manner. Unlike the traditional analytical chemistry journals, JABT established a rapid publishing timeline with seven days as the average acceptance to publication, and 45 days as the average processing times [1]. This fast review process facilitated quicker publication entry, creating a high value for the authors and readers. The journal publishes high-quality research and reviews articles in multiple disciplines with a high impact factor of 8.96 [1]. The current editorial board [1] includes Vivek Agrahari, Offie P Soldin, Devrishi Goswami, and Nagireddy Putluri⁴, actively serving in their respective scientific fields while contributing their expertise

*Corresponding author: Hima Bindu Gottam, Department at the University of Iowa Pharmaceuticals (UI Pharmaceuticals), University of Iowa, Iowa City, Iowa, USA, E-mail: hgottam@uiowa.edu

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to the editorial board. In addition, the international review board of JABT consists of over 50,000 eminent researchers and reputed scientists representing a vast scientific community with tremendous experience from multiple disciplines helping the fast publishing of research work. JABT has successfully promoted global scientific collaboration by encouraging diverse ideas to work for a common goal. Thus, the publisher is helping to build a stronger scientific community with an

open science environment. The visibility of publisher is multiplying over the time, and this journal is one of the most used publishing services by professionals, experienced researchers, and emerging scientists to publish their research work.

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