



Learn the “tricks of the trade”  
to enhance and streamline  
the efficient and effective use  
of essential analytical methods



Parc Científic de Barcelona

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# CHARACTERIZATION OF PROTEINS FOR DEVELOPMENT AND APPROVAL OF PROTEIN PHARMACEUTICALS AND VACCINES

**25-26 June, 2013**

## Course Topics Include:

- Fundamentals
- Regulatory Expectations
- Analytical Methods
- Case Studies and Practical Examples
- Interactive Workshop

## Who Should Attend

This course will be of interest and value to scientists, supervisors, and managers whose work includes performing, supervising, or managing characterization of protein drugs and drug candidates during preclinical development, clinical development, and for post-marketing changes. Job titles include, but are not limited to:

- R&D
- Protein Biochemistry
- Quality Assurance
- Quality Control
- Stability
- Formulation
- Production

The course will also benefit Regulatory Affairs professionals who would like to learn the scientific background of this significant part of regulatory submissions.

## Learning Objectives

Upon completion of this course, you will be able to:

- Explain the basics of how and why protein structure and function can and must be characterized for development and approval of protein drugs.

- Outline the molecular details that are of special interest during pharmaceutical protein characterization.
- Describe what is needed to meet regulatory requirements and expectations for protein characterization throughout the product lifecycle.

## Course Description

This course relates primarily to Monoclonal Antibody and rDNA Protein Therapeutics and Vaccines. The basics of protein chemistry/biochemistry will be presented since this knowledge is essential to the remainder of the course learning experience.

The legal/regulatory requirements and expectations for molecular characterization of pharmaceutical proteins are detailed for the entire product lifecycle, from preclinical development through post-marketing changes.

Essential analytical methods will be reviewed along with some “tricks of the trade” to enhance and streamline the efficient and effective use of these methods.

Practical case-study examples and an opportunity for attendees to use their newly acquired knowledge in simulated situations will be included.

## Course Director

Thomas J Pritchett, Ph.D., has more than 25 years experience working with the US, European, Canadian pharmaceutical, biopharmaceutical, and biologics industries where he has gained considerable experience in most aspects of Quality Assurance, Quality Control and CGMP Compliance for both investigational and marketed products. He is also an experienced teacher, and has been directing

courses for the Center for Professional Advancement since 1995. In addition, Dr. Pritchett has provided training sessions for the US FDA and for regulators and industry professionals in the Gulf Cooperation Council (GCC). Dr. Pritchett is also an active industry consultant and the co-founder/publisher of the newsletter BioQuality ([www.bioquality.biz](http://www.bioquality.biz)).



