



Assay Development: Fundamentals and Practices

By Ge Wu



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Essential principles and practice of assay development

The first comprehensive, integrated treatment of the subject, Assay Development: Fundamentals and Practices covers the essentials and techniques involved in carrying out an assay project in either a biotechnology/drug discovery setting or a platform setting.

Rather than attempting comprehensive coverage of all assay development technologies, the book introduces the most widely used assay development technologies and illustrates the art of assay development through a few commonly encountered biological targets in assay development (e.g., proteases, kinases, ion channels, and G protein-coupled receptors). Just enough biological background for these biological targets is provided so that the reader can follow the logics of assay development. Chapters discuss:

- The basics of assay development, including foundational concepts and applications
- Commonly used instrumental methods for both biochemical assays and cell-based assays
- Assay strategies for protein binding and enzymatic activity
- Cell-based assays
- High-throughput screening

An in-depth study of the now popular Caliper's off-chip kinase assay provides an instructive, real-world example of the assay development process.



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Editorial Review

Review

"Although it is not an easy task to satisfy the demands of all scientists, the book Assay Development is an important treatise for scientists of modern biology". (ChemBioChem, 7 March 2011)

About the Author

Ge Wu, PhD, is Director of Assay Development at Iris International. He obtained his doctorate in biochemistry from UCLA, performed postdoctoral work at Harvard Medical School, and was a member of the faculty at Cornell University Medical College. Prior to joining Iris International, he worked at Merck & Co., Caliper Technologies, Amphora Discovery, and FivePrime Therapeutics. He is the founding Director of Assay Development and Screening at FivePrime Therapeutics. Dr. Wu is a leading figure in assay development and screening in biopharmaceutical discovery using primary cell assay and the author of an acclaimed review in this subject.

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