

**Tentative Outline**  
**Special Issue for CURRENT BIOACTIVE COMPOUNDS**  
*Guest Editor(s): Marcello Locatelli*

**ANALYTICAL CHARACTERIZATION ASSAY FOR NEW  
CHEMICAL ENTITIES**

**Aims & Scope:**

Modern drug advance process requires validated assay that well perform and meet a very wide spectrum of needs, from organic synthetic process to identification and purity determination, to quantitative assay carried out often in very complex matrices such as biological fluids, bulk reaction material, and raw natural sample materials.

This Special Issue of Current Bioactive Compounds, which consist of invited contributions both review and research papers, present an overview of the different application and recent advances in New Chemical Entities (NCE) characterizations, from compounds synthesis, development, and then analyses.

The contributions presents an overview on the advance, improvement, validation and extension of application of methodologies, to the recent developments in sample preparation and sample extractions, detection techniques including mass spectrometry and other hyphenated techniques, data handling and chemometrics, and analysis for isolation and chemical physics characterization.

**Key words:** Instrument configurations, HPLC, NMR, Biological assays, Extract, Spectrophotometry

**Subtopics:**

1. Analytical procedures for NCE characterization
2. Biological evaluation of natural extracts
3. Extraction procedure-biological activities correlations
4. Chemical-physical parameters evaluations
5. Novel technologies for drug discovery and development process
6. Spectrophotometric and Chromatographic assays

<b>Schedule:</b>	Manuscript submission deadline	June 2015
	Peer Review Due	July 2015
	Revision Due	August 2015
	Notification of acceptance by the Guest Editor	August 2015
	Final manuscripts due	September 2015

