**Aims & Scope:** A biomarker is a measurable characteristic that indicate normal or pathogenic biological processes, or pharmacological responses to therapeutic intervention. There is a strong clinical need to identify novel biomarkers for diagnosis, prognosis, and treatment of human diseases.

This Hot topic thematic issue includes articles addressing a multi-disciplinary approach to the unveiling several aspects of biomarker development against human pathogeneses. An effort is made to bring together researchers from different countries and to merge complementary approaches, which range from biophysics and biochemistry to microbiology and animal models.

In this Issue, biomarkers of various human pathogeneses are discussed as an opportunity to develop molecular entities of diagnostic and therapeutic interest. Key topics will include novel computational and experimental methods of identification of molecular biomarkers and the contribution of structural biology to the description of molecular events involved in biomarker recognition. Experts in the field will also discuss modes of action of biomarkers of specific human pathogenesis.

**Keywords:** Biomarker, human diseases, biophysics, biochemistry

**Subtopics:**
1. Human infections
2. Immune response
3. Serum biomarkers
4. Structural biology

**Schedule:**
- Manuscript submission deadline: May 1st, 2018
- Peer Review Due: June 15th, 2018
- Revision Due: July 15th, 2018
- Announcement of acceptance by the Guest Editors: July 30th 2018
- Final manuscripts due: September 15th, 2018

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