



BioMed Research International

Special Issue on
**Omics Technologies: New Powerful Research Tools
in Nephrology**

CALL FOR PAPERS

Several tissues and organs are involved in the systemic deregulation associated with the acute and chronic renal impairment and, as largely reported, important biological pathways (immune-inflammation and metabolic and proliferation/apoptosis) are implicated. However, at the moment, the complete pathological machinery associated to the renal diseases is not completely defined. Additionally, new diagnostic/prognostic biomarkers and therapeutic targets are necessary. Finally, although notable progress has been made in the therapeutic management of patients with renal diseases, the occurrence of medication-related problems (lack of efficacy and adverse drug reactions) still represents a key clinical issue in nephrology and renal transplantation.

To achieve these objectives researches worldwide are starting to employ new high-throughput technologies (“omics”) including large-scale gene, protein, and metabolite measurements.

Nevertheless, to take full advantage of these innovative methodologies a close integration among various disciplines is necessary (e.g., statisticians, clinicians, and biologists).

Therefore, because of the importance of these new research approaches, we invite investigators to contribute original research articles as well as review articles that will stimulate the continuing efforts to understand the potential applications of the omics strategy in nephrology.

Potential topics include, but are not limited to:

- ▶ Recent employment of “omics” methodologies to better understand the pathophysiology and progression of acute and chronic renal disorders
- ▶ High-throughput strategies to define key factors involved in renal and extrarenal complications associated to transplantation
- ▶ Use of omics-based research strategies to personalize treatment in nephrology and transplantation
- ▶ Identification by genomic, transcriptomic, proteomic, and metabolomic approaches of new diagnostic/prognostic biomarkers and novel therapeutic targets for renal and kidney transplant diseases/complications

Authors can submit their manuscripts via the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/bmri/nephrology/otn/>.

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First Round of Reviews

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