

Special Issue on
Novel Biomarkers for Type 2 Diabetes

CALL FOR PAPERS

Type 2 diabetes (T2D) is one of the most prevalent chronic diseases, affecting about 415 million people worldwide in 2015. The etiology of T2D involves an interaction between genetic predisposition and lifestyle (e.g., overweight, unhealthy diet, and sedentariness).

The past decade has seen fast-paced, technology-driven developments in the field of complex disease genomics. Implementation of the genome-wide association study approach has revolutionized our understanding of the genetic underpinnings of T2D, identifying ~70 genetic risk loci for T2D. However, these alone explain <10% of overall T2D risk and do not accurately predict T2D.

In the past five years, clinical studies of T2D have increasingly focused on identifying novel serum biomarkers for T2D using cutting-edge “omics” tools, such as metabolomics and proteomics. Metabolomics approaches in particular have been widely adapted to screen blood or other human tissues for changes in metabolites and low-molecular-weight biomolecules such as lipids, sugars, amino acids, organic acids, and nucleotides.

We invite original and review papers describing current highlights, methods, and challenges in identifying, characterizing, and validating “novel biomarkers for type 2 diabetes.” We welcome both basic and clinical research articles focusing on experimental data and/or theory.

Potential topics include but are not limited to the following:

- ▶ Identification of biomarkers (e.g., genetic, metabolomic, or proteomic) associated with T2D and related traits
- ▶ Prediction of incident T2D and related traits using multivariate models that combine biomarkers and other predictors in data from clinical trials or prospective cohort studies
- ▶ Integrative approaches for biomarkers and/or “omics” to improve T2D risk prediction based on existing or new data
- ▶ Novel methods of T2D biomarker discovery and validation using existing knowledge from biological databases (*in silico* or bioinformatics methods or systems biology approaches)

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/jdr/nbtd/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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Submission Deadline

Friday, 28 July 2017

Publication Date

December 2017