

# IET Systems Biology

## Call for Papers

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### Special Issue on: Cancer biomarkers identification with computational intelligence

Effective screening strategies depend on methods that are noninvasive and detect cancers in their early stages of development. There is increasing interest and enthusiasm in molecular markers as tools for cancer detection and prognosis. It is hoped that newly discovered cancer biomarkers and advances in high-throughput technologies would revolutionize cancer therapies by improving cancer risk assessment, early detection, diagnosis, prognosis, and monitoring therapeutic response. Over the past few decades, advances in computing technology have ushered in an unprecedented era in cancer biomarker discovery. New intelligent technologies now allow characterization of complex biological systems at unparalleled resolution. In this special collection, we would focus on advanced computational intelligent technologies for cancer biomarker identification.

Topics of interest include, but are not limited to:

- Bioinformatics analysis for genomic/transcriptomic/proteomic data
- Identification and prediction of novel biomarkers
- Comparative genomics and molecular evolution
- Software, web-tools, and databases development
- High-performance computing system application
- Single-cell analysis in cancer genomics
- Identification of novel drug targets
- Genomics markers knowledge discovery
- Statistical models for cancer data analysis

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