Analytical Cellular Pathology

Special Issue on
Biomarkers and Molecular Diagnostics in Upper Aerodigestive Tract Cancers

Hindawi

CALL FOR PAPERS

Upper Aerodigestive Tract (UADT) cancers are one of the most common cancer types as well as being among one of the most common causes of cancer mortality worldwide. Globally, UADT cancers account for approximately 28% of incident malignancies and 29% of cancer deaths. Malignant neoplasms in the UADT include cancers of the oral cavity, pharynx, larynx, and esophagus. The incidence of these malignant neoplasms is increasing. Although the multifactorial origins of these cancers have been well investigated, their etiology, molecular diagnostic biomarkers, the potential application of biomaterials, pathogenesis, and potential therapeutic options remain unclear to some extent.

There are many challenges to incorporating biomarkers and molecular methods into routine diagnoses. This special issue intends to present and discuss the discovery of molecular diagnostic biomarkers by covering the development of UADT cancer pathways and examining the pertinent strengths and limitations of cancer biomarkers.

With continual research and development, these diagnostic biomarkers may improve the understanding of the molecular mechanisms underlying injury in ecological organisms; the findings of this research could complement other health measures for UADT cancers and be integrated into the risk assessment for relevant disease conditions.

We invite authors to submit research and review articles describing their recent findings as well as future perspectives which involve diagnostic biomarkers, molecular mechanisms, and therapeutic biomaterials affected by and related to UADT cancers. This special issue aims to include cutting-edge science submissions with important insight into applications for the detection, diagnosis, therapy, and prevention of UADT cancers. Furthermore, this issue encourages the characterization of the molecular profiles of biomarkers and cytopathological changes at different UADT cancer stages. We aim to also consider articles on new drugs and biological agents targeting UADT cancers. We encourage research on UADT cancer pathology within a broad range of areas, including environmental risk assessment, the application of biomaterials, discovery of biomarkers, pathology development processes, and immunology. We particularly welcome submissions describing research using cell lines as well as animal models to support meaningful findings.

Potential topics include but are not limited to the following:

- ▶ The application of biomarkers in clinical diagnosis for UADT cancers

- ▶ Discovery of biomarkers and molecular mechanisms based on tumorigenesis and tumor progression of UADT cancers

- ▶ Epidemiological surveys on the environmental risk factors for UADT cancers or related risks assessments

- ▶ Investigation of pathological signaling pathways in UADT cancers

- ▶ Early detection, diagnosis, prevention, or treatment of the signs and symptoms of UADT cancers

- ▶ Regulation of gene expression in UADT cancer development

- ▶ Biomaterials and their potential applications for tissue engineering

Authors can submit their manuscripts through the Manuscript Tracking System at https://mts.hindawi.com/submit/journals/acp/cpmm/.

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

Lead Guest Editor
Ping-Ho Chen, Kaohsiung Medical University, Kaohsiung, Taiwan
phchen@kmu.edu.tw

Guest Editors
Jim Jinn-Chyuan Sheu, National Sun Yat-sen University, Kaohsiung, Taiwan
sheu.jim@gmail.com

Guang Hong, Tohoku University, Sendai, Japan
hong@m.tohoku.ac.jp

Gian Luigi Mariottini, University of Genova, Genova, Italy
gian.luigi.mariottini@unige.it