



## Advances in Cerebrospinal Fluid Diagnostics

Guest Editors:

### Dr. Elisabeth Kapaki

Neurochemistry and Biomarker Unit, 1st Department of Neurology, Eginition Hospital, National and Kapodistrian University of Athens, Athens, Greece

### Dr. Fotini Boufidou

Neurochemistry and Biological Markers Unit, 1st Department of Neurology, Eginition Hospital, School of Medicine, National and Kapodistrian University of Athens, Athens, Greece

Deadline for manuscript submissions:

**closed (31 March 2023)**

### Message from the Guest Editors

Since the first in vivo lumbar puncture (LP), carried out by Heinrich Quincke in 1891 (mainly performed for therapeutic reasons), the parallel analysis of cerebrospinal fluid (CSF) has been a determinative fact. Quincke's CSF studies established the first crucial milestones in CSF diagnostics.

Incorporating previous progress in the field of microbiology allowed for the diagnosis of infections to be possible and accurate. Immunological methods came into play afterward, further advancing CSF diagnostics.

In the last 30 years, great progress has been achieved in dementia and particularly Alzheimer's disease diagnosis through the use of biological markers with the molecular specificity of amyloid pathology, neurofibrillary tangle pathology, prion protein pathological misfolding, along with nonspecific biomarkers of neurodegeneration.

Moreover, "omic" approaches, including proteomics, metabolomics, transcriptomics and microRNA analysis, are continuously explored, expanding the potential of CSF diagnostics.

The aim of the Special Issue is to highlight these important advances in CSF diagnostics through a constellation of articles focusing on the above issues.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Andreas Kjaer

Department of Clinical  
Physiology, Nuclear Medicine &  
PET National University Hospital,  
Rigshospitalet, University of  
Copenhagen, Blegdamsvej 9, DK-  
2100 Copenhagen, Denmark

## Message from the Editor-in-Chief

You are cordially invited to submit research articles, short communications, comprehensive reviews, case reports or interesting images for consideration and publication in *Diagnostics* (ISSN 2075-4418). *Diagnostics* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q1 (Medicine, General and Internal) / CiteScore - Q2 (Internal Medicine)

## Contact Us

---

*Diagnostics* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/diagnostics](http://mdpi.com/journal/diagnostics)  
[diagnostics@mdpi.com](mailto:diagnostics@mdpi.com)  
[X@diagnostic\\_mdpi](https://twitter.com/diagnostic_mdpi)