

## Special Issue

# Advances in Cerebrospinal Fluid Diagnostics

### 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.

### Guest Editors

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### Deadline for manuscript submissions

closed (31 March 2023)



## Diagnostics

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