



Malignant Pleural Mesothelioma: From Pathophysiology to Novel Therapeutic Approaches

Guest Editor:

Dr. Yanyun Gao

University Hospital Bern, Bern,
Switzerland

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Message from the Guest Editor

Dear Colleagues,

Mesothelioma is a rare, but aggressive cancer type, originating from mesothelium tissues covering the lungs (pleura), heart (pericardium), abdomen (peritoneum) and testes (tunicae testis). However, 90% of mesothelioma cases are of malignant pleural mesothelioma (MPM), which is usually associated with exposure to asbestos. MPM involves tumour suppressor gene mutation instead of oncogenes, so targeted therapies are rarely applied. In the last two decades, chemotherapy has been the only first-line treatment for unresectable MPM. Immunotherapy was approved by FDA in 2020, but only a small population of patients benefit from it. Further studies are needed to understand this disease and develop novel therapeutic approaches. In this collection, we aim to include research focused on the histological, molecular, and biological mechanisms of MPM and pleural effusion, the potential biomarkers for different treatment strategies, advanced diagnostic techniques, novel therapies for MPM (targeted, metabolomic, and immune therapies), and promising models of MPM (organoids, tissue slices, and mouse models).

Dr. Yanyun Gao

Guest Editor





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Prof. Dr. Felipe Fregni

1. Neuromodulation Center and
Center for Clinical Research

Learning, Spaulding
Rehabilitation Hospital and
Massachusetts General Hospital,
Harvard Medical School, Boston,
MA 02114, USA

2. Department of Epidemiology,
Harvard T.H. Chan School of
Public Health, Boston, MA 02115,
USA

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