

## Special Issue

# Thoracic Surgery: Updates and New Trends

### Message from the Guest Editor

Thoracic surgery has significantly advanced in recent years, marked by the integration of cutting-edge technologies and innovative surgical techniques into both diagnosis and treatments. Minimally invasive procedures, such as robot-assisted thoracic surgery (RATS) and the Ion bronchoscopy procedure have become increasingly prevalent, allowing clinicians to identify and characterize very small nodules and then, in combination with robotic surgical systems, to achieve enhanced surgical precision and dexterity, leading to reduced postoperative pain, shorter hospital stays, and quicker recoveries. In addition, artificial intelligence (AI) and machine learning are proving to be transformative in thoracic surgery. These technologies facilitate surgical planning, intraoperative navigation, and postoperative outcome prediction. Furthermore, the development of hybrid operating rooms has facilitated the combination of surgical and interventional procedures, enhancing the treatment of complex thoracic conditions. Overall, the convergence of technological innovation and surgical expertise is propelling thoracic surgery into a new era.

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