

## Special Issue

# Aortic Valve Replacement: Current Trends, Future Perspectives, and Emerging Technologies

### Message from the Guest Editor

Aortic valve replacement (AVR) is undergoing a paradigm shift, driven by the rapid expansion of transcatheter aortic valve implantation (TAVI) and the growing demand for durable, personalized solutions. To remain relevant, surgical techniques must adapt to address anatomically complex scenarios—such as bicuspid valves, small annuli, and aortic root pathology—where transcatheter options may be limited. The pursuit of less invasive surgical approaches and improved prosthetic designs is essential to meet these demands. This Special Issue aims to explore strategies to enhance valve longevity, reduce complications such as paravalvular leak and conduction disturbances, and address the unique needs of vulnerable populations. It will also highlight the emerging challenge of aortic insufficiency, which requires distinct diagnostic and therapeutic approaches beyond the traditional focus on stenosis. We welcome original research and reviews that reflect the evolving landscape of AVR and contribute to a more durable, equitable, and forward-looking future for valve therapy.

### Guest Editor

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### Deadline for manuscript submissions

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