

It was reported that the first successful lung transplantation was performed by Dr. Joel Cooper's team, and the first successful heart-lung transplantation was performed by Dr. Bruce A. Reitz in the 1980s (1,2). After these milestones, the roads to lung and heart-lung transplantation were opened, and both transplantations became widely and more frequently performed all around the world. The success of transplantation surgery has largely contributed to the improvement of surgical techniques and the appearance of cyclosporine, an immunosuppressant drug. Nowadays, lung and heart-lung transplantation are well-established treatment options for patients with end-stage heart failure and end-stage lung diseases.

The past decades have witnessed a dramatic increase in the research on lung and heart-lung transplantation. With the aim to provide a comprehensive review on lung and heart-lung transplantation, we are glad to launch this new book *From Lung Transplantation to Heart-Lung Transplantation*. The book consists of high-quality articles published in AME journals. It includes all aspects of lung and heart-lung transplantation and their related technologies. In the first chapter, comprehensive reviews on the current status and problems of lung transplantation are provided, and include topics such as chronic rejection, potential complications, organ shortage, intraoperative management, and others. In the second chapter, perspectives from international leading experts on pediatric and adult indications, prognosis, and donor selection are provided. The third and fourth chapters are about related technology and immunological rejection, respectively.

We hope that the readers will enjoy this first edition, and, in the near future, we wish to further expound the future directions and state-of-the-art techniques of the field in a second edition.

References

1. Venuta F, Van Raemdonck D. History of lung transplantation. *J Thorac Dis* 2017;9(12):5458-5471.
2. Reitz BA. The first successful combined heart-lung transplantation. *J Thorac Cardiovasc Surg* 2011;141(4):867-869.



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