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## **Recent Advances in Cardiac Assist Devices**

Guest Editor:

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# Message from the Guest Editor

From rudimentary cardiopulmonary bypass systems to magnetically levitated micro-rotary flow pumps mounted onto catheters with self-expanding elements, we are in the midst of the next major inflection point in bioengineering for cardiac assist devices. In parallel to growth in mechanical engineering, our understanding of both the biologic and physiologic impacts of cardiac assist devices on myocardial recovery and multi-organ perfusion continues to develop. Finally, the promise of closed-loop communication between sensors and actuators driven by alternative intelligence platforms is emerging as a reality. To advance our understanding of this exciting field, this of *Bioengineering* will Issue interdisciplinary exchange, facilitate new collaborations, and stimulate expanded applications of innovations in the field of cardiac assist devices. The next major advance in cardiac assist devices is more likely to occur when seemingly disparate fields come together to innovate and disrupt existing paradigms. We invite engineers, scientists, healthcare professionals, and innovators from disciplines submit their original for reports consideration.













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# Message from the Editor-in-Chief

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