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Recent Advances in Biomedical Imaging

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Biomedical imaging has arguably demonstrated the most rapid advancements in the entire biomedical field in the recent decade. Besides the expansion of established imaging instrumentation into broader applications in tissue, cellular, and molecular diagnostic imaging, there have been substantial modifications in the imaging protocols that have progressed the capabilities of these existing imaging modalities. Technological advancements are stimulating further novel approaches in diagnosis and in the measurement, as well as monitoring, of treatment outcomes. The adaptation of innovations in imaging technologies, methods, and protocols for broader applications is often limited by the inability to share them with investigators outside their original field. Therefore, it is crucial to facilitate the sharing of such advances in biomedical imaging that occur in a particular field with other areas. A broader vision exploring the full potential of an innovation often requires adding a new, perhaps outside, perspective. This Special Issue of Bioengineering aims to serve as a medium for such interdisciplinary exchange and the expansive stimulation of innovative applications, perhaps through facilitating new collaborations between various fields and investigators. Therefore, the next big thing in biomedical imaging may stem from diverse minds finding new ways forward.

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