

Special Issue

Emerging Topics in Precision Medicine: Non-invasive Innovations Shaping Cancer and Immunotherapy Progress

Message from the Guest Editors

Immunotherapy, which harnesses the power of immune cells, holds promise in enhancing clinical outcomes, yet is challenged by cancer heterogeneity, variable therapy response, and the development of resistance. Despite several advanced clinical approaches, cancer remains the second-most deadly disease in the world. Therefore, comprehending cancer heterogeneity and immunotherapy response is crucial to optimize personalized therapeutic interventions based on individual tumors. With the integration of big data in medical applications, the incorporation of diverse biomedical data, ranging from molecular to imaging, provides a high-dimensional visualization of cancer behavior. This enables cancer stratification, diagnosis, and therapy management. Thus, the utilization of multimodal data fusion will open avenues for the development of advanced non-invasive investigations, addressing the challenges of cancer intricacies and enhancing the precision of personalized treatment strategies. The topic welcomes reviews and articles in computational non-invasive approaches including radiomics, radiogenomics, computational models, and artificial intelligence methods.

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Deadline for manuscript submissions

closed (30 September 2025)



Applied Sciences

an Open Access Journal
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Impact Factor 2.5
CiteScore 5.5



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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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