Special Issue

Quantitative Imaging Dynamic Models in Cancer Research

Message from the Guest Editors

Quantitative imaging parameters have been used as surrogate markers for the detection, prevention, and prognosis of different pathologies. Previously, contrast-enhanced imaging descriptors were the paradigm of dynamic models. Radiomic features were then explored and found to be successful imaging biomarkers. In this Special Issue, we will re-examine the many different dynamic models and modalities to be considered accurate and reproducible imaging surrogate markers as there are factors that introduce large bias. Precise heterogeneous tumor measurements are technically challenging and require alternative methods considering the constraints of variable image data acquisition and analysis. Efforts toward reproducibility must focus on providing effective image standardization solutions. With this Special Issue, we aim to further explore the development of robust and reproducible quantitative imaging dynamic models in cancer research, including a wide range of modalities (MR, CT, US and PET) and signal types (diffusion, perfusion, spectral, relaxation times) as surrogates of oncologic hallmarks.

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Message from the Editor-in-Chief

Cancers is an international online journal addressing both clinical and basic science issues related to cancer research. The journal is publishing in Open Access format, which will certainly evolve to ensure that the journal takes full advantage of the rapidly changing world of information and knowledge dissemination. It publishes high-quality clinical, translational, and basic science research on cancer prevention, initiation, progression, and treatment, as well as other related topics, particularly to capture the most seminal studies in the rapidly growing area of immunology, immunotherapy, and tumor microenvironment.

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