

Radiogenomics: Peer-reviewed journal article featuring Fortrea oncologists



The convergence of radiology and genomics is key to both the selection of cancer patients into the right trial, as well as assessing the changes in the biology of the cancer and responsiveness to treatment in outcomes. Dr. Saini and co-authors discuss this important topic in the recent publication, ensuring Fortrea brings the right trials to the right cancer patients faster.

Fortrea supports our sponsors with a team of 50+ oncologists who employ a collaborative approach, which can result in co-authorship of peer-reviewed journal articles based on projects we've supported. In addition, they have contributed to industry knowledge via articles about their own academic and collaborative work.

2024	
Number	Authors, Title, Journal
2024.1	<p>Demetriou D, Lockhat Z, Brzozowski L, Saini KS, Dlamini Z, Hull R. The Convergence of Radiology and Genomics: Advancing Breast Cancer Diagnosis with Radiogenomics. <i>Cancers</i>. March 2024. https://www.mdpi.com/2072-6694/16/5/1076</p> <p>Summary: This paper explores the integration of radiology and genomics, termed radiogenomics, as a transformative approach to breast cancer diagnosis. It highlights the importance of molecular subtyping for prognostic and predictive purposes, given the diverse clinical behaviors of breast cancer subtypes. Radiogenomics combines genetic patterns with imaging features, offering a non-invasive method to enhance early detection, prognosis, and treatment selection. This approach aspires to eventually eliminate the need for biopsy and sequencing, streamlining clinical workflows and advancing personalized patient care. However, challenges such as reproducibility, standardization, and data integration remain, necessitating further research and validation in multi-institutional settings.</p> <p>The authors emphasize the disparities in breast cancer diagnosis and outcomes across populations, particularly among individuals of African heritage, underscoring the need for localized research efforts. Despite its limitations, radiogenomics is presented as a promising frontier in breast cancer research, with the potential to revolutionize patient care by correlating genomic information with imaging phenotypes.</p>



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