International Conference on
Oncology and Cancer Research (ICOCR-2025)

Conference Proceedings February 06, 2025 - Singapore

AI in Clinical Research in Oncology

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Artificial Intelligence (AI) is revolutionizing cancer research, transforming the way we diagnose, treat, and predict disease outcomes. This talk explores the ongoing advancements in AI-driven oncology, highlighting breakthroughs in precision medicine, drug discovery, and patient care optimization. From AI-powered imaging and biomarker identification to machine learning models predicting treatment responses, these innovations are accelerating research timelines and improving patient outcomes. I will also discuss the integration of AI into clinical trials, streamlining data analysis and enhancing decision-making. While AI offers immense promise, challenges such as data privacy, bias, and regulatory hurdles remain critical considerations. By examining current progress, refining processes, and envisioning future predictions, this session aims to provide insights into the evolving role of AI in cancer research and its potential to reshape the landscape of oncology.