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Advanced Cancer Research: defining a platform for convergent oncology



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Cancer research is undergoing a profound transformation. Advances in molecular and cellular biology, genomics, immunology, engineering, and computational science have reshaped our understanding of cancer as a complex, multiscale disease. Yet the gap between biological discovery and durable clinical benefit remains a central challenge. Addressing this gap increasingly requires integration across disciplines, technologies, and conceptual frameworks.

Advanced Cancer Research is an international, peer-reviewed, open-access journal publishing original cancer research spanning basic, translational, and clinical investigation. The journal prioritizes studies that provide mechanistic depth, introduce conceptual or technological innovation, or offer system-level insight into cancer biology and therapy, with particular emphasis on work that bridges disciplinary boundaries and advances translational relevance.

Scientific scope

The journal reflects the convergent nature of contemporary oncology. Contributions are welcomed across cancer molecular biology; genetics and genomics; epigenetic regulation; metabolism; tumor microenvironment and metastasis; cancer heterogeneity; stem cell plasticity; immunotherapy; radiation oncology; and translational and clinical cancer research. Research at the interface of cancer science with synthetic and structural biology, artificial intelligence and machine learning, microbiome science, aging and senescence, mental health, and emerging experimental and analytical technologies is also encouraged, including multi-omics approaches, liquid biopsy, organoid and organ-on-chip systems, advanced three-dimensional tumor models, and nanomedicine.

Rather than treating these areas as isolated domains, *Advanced Cancer Research* seeks to highlight connections linking molecular mechanisms to organismal behavior and experimental discovery to clinical application.

Editorial process and open access

All articles published in *Advanced Cancer Research* are immediately and freely accessible through an open-access publishing model. This model is supported by article processing charges, which enable



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rigorous editorial management, independent peer review, professional production, global dissemination, and long-term digital preservation.

Editorial decisions are based solely on scientific quality, originality, and significance. All submissions undergo a structured, transparent, and unbiased peer-review process, with close attention to methodological rigor, ethical standards, and reproducibility. The journal is committed to maintaining integrity and trust in scientific communication while providing an efficient and constructive editorial experience. Moreover, the journal is supported by an international editorial board comprising researchers and clinicians from multiple regions, including the USA, United Kingdom, China, South Korea, Japan, and Singapore, reflecting the global scope of cancer research.

Engaging the next generation

Progress in cancer research depends critically on emerging scientists. *Advanced Cancer Research* recognizes the role of early-career researchers in shaping new directions in the field and encourages submissions introducing original perspectives, innovative methodologies, and interdisciplinary approaches. Through rigorous and constructive peer review, the journal aims to support high-quality research across career stages.

Advanced Cancer Research establishes a forum for integrative and forward-looking cancer research. As the field continues to evolve, the journal seeks to provide a platform where ideas are critically evaluated, openly shared, and translated into advances that ultimately benefit patients.