

Special Issue

Molecular Pathways Shaping Head and Neck Cancer Care

Message from the Guest Editor

Head and neck cancers represent a heterogeneous group of malignancies characterized by complex molecular drivers, diverse etiologies, and profound clinical challenges. Advances in our understanding of tumor biology, ranging from viral oncogenesis to the tumor-immune microenvironment, are rapidly reshaping diagnostic and therapeutic strategies. As precision oncology gains momentum, unraveling the molecular pathways that govern tumor initiation, progression, and treatment response is critical to improving patient outcomes. This Special Issue invites original research and comprehensive reviews focused on how emerging mechanistic insights translate into clinical practice. Topics of interest include but are not limited to: biomarker discovery, immune checkpoint regulation, stromal and microenvironmental signaling, therapeutic resistance pathways, and molecular determinants of radiation and systemic therapy response. Studies that leverage cutting-edge technologies—such as single-cell and spatial omics, organoid modeling, and radiogenomic integration—are especially encouraged. We look forward to your contributions to this Special Issue.

Guest Editor

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Deadline for manuscript submissions

31 August 2026



Life

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.0
Indexed in PubMed



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Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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