

Special Issue

Molecular Insights and Unique Characteristics in Adolescent and Young Adult Oncology

Message from the Guest Editor

This Special Issue addresses the critical gap in oncology research for patients aged 15–39 years, a population that often falls between established pediatric and adult treatment paradigms. Recent molecular and genomic studies have revealed distinct biological characteristics of malignancies in this age group at the molecular level, warranting dedicated research attention. The AYA (Adolescent and Young Adult) oncology population presents with unique tumor biology, molecular signatures, treatment responses, and survival outcomes that differ from both pediatric and older adult patients. Despite comprising approximately 5% of all cancer diagnoses, survival improvements in this age group have lagged behind those observed in pediatric and older adult populations. This Special Issue aims to highlight recent molecular advances in understanding these age-specific differences and translate them into improved clinical outcomes.

Guest Editor

Dr. Antonio Ruggiero

Pediatric Oncology Unit, Fondazione Policlinico Universitario A. Gemelli IRCCS, Università Cattolica Sacro Cuore, 00168 Rome, Italy

Deadline for manuscript submissions

31 October 2025



Current Issues in Molecular Biology

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 3.7
Indexed in PubMed



mdpi.com/si/241755

Current Issues in Molecular Biology
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cimb@mdpi.com

[mdpi.com/journal/
cimb](https://mdpi.com/journal/cimb)





Current Issues in Molecular Biology

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 3.7
Indexed in PubMed



[mdpi.com/journal/
cimb](https://mdpi.com/journal/cimb)



About the Journal

Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Madhav Bhatia

Department of Pathology and Biomedical Science, University of Otago,
Christchurch, 2 Riccarton Avenue, P.O. Box 4345, Christchurch 8140,
New Zealand

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PMC,
PubMed, Embase, CAPus / SciFinder, FSTA, AGRIS, and
other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is
provided to authors approximately 17.8 days after
submission; acceptance to publication is undertaken in 2.7
days (median values for papers published in this journal in
the first half of 2025).

Recognition of Reviewers:

APC discount vouchers, optional signed peer review, and
reviewer names are published annually in the journal.