

## Special Issue

# Heme Metabolism in Oncogenesis and Tumor Microenvironment: Mechanisms and Emerging Therapeutic Strategies

### Message from the Guest Editors

Heme metabolism plays a crucial role in cancer development and the tumor microenvironment. Aberrations in heme and porphyrin biosynthesis and regulation have been implicated in oncogenesis, influencing tumor progression, immune evasion, and redox homeostasis. Emerging evidence, including insights from recent CRISPR screens, highlights heme metabolism as a central pathway in various cancers. This Special Issue seeks contributions that explore mechanistic insights into the role of heme and porphyrins in cancer biology, as well as therapeutic strategies targeting heme biosynthesis and metabolism. We encourage the submission of research spanning molecular and cellular mechanisms to translational approaches, focusing on how altering heme pathways could present novel treatment options in cancer therapy.

### Guest Editors

Dr. Rays H.Y. Jiang

1. USF Genomics Program, Center for Global Health and Infectious Diseases, College of Public Health, University of South Florida, Tampa, FL 33612, USA
2. Global Health, College of Public Health, University of South Florida, Tampa, FL 33612, USA

Prof. Dr. Gloria C. Ferreira

1. Department of Molecular Medicine, Morsani College of Medicine, University of South Florida, Tampa, FL 33612, USA
2. Department of Chemistry, College of Arts and Sciences, University of South Florida, Tampa, FL 33620, USA

### Deadline for manuscript submissions

31 October 2025



## Cancers

an Open Access Journal  
by MDPI

Impact Factor 4.4  
CiteScore 8.8  
Indexed in PubMed



[mdpi.com/si/219925](https://mdpi.com/si/219925)

*Cancers*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[cancers@mdpi.com](mailto:cancers@mdpi.com)

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





# Cancers

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.4  
CiteScore 8.8  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

*Cancers* is an international online journal addressing both clinical and basic science issues related to cancer research. The journal is publishing in Open Access format, which will certainly evolve to ensure that the journal takes full advantage of the rapidly changing world of information and knowledge dissemination. It publishes high-quality clinical, translational, and basic science research on cancer prevention, initiation, progression, and treatment, as well as other related topics, particularly to capture the most seminal studies in the rapidly growing area of immunology, immunotherapy, and tumor microenvironment.

---

### Editor-in-Chief

Prof. Dr. Samuel C. Mok

Department of Gynecologic Oncology and Reproductive Medicine, The University of Texas MD Anderson Cancer Center, Houston, TX 77030, USA

---

### Author Benefits

#### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High Visibility:

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

#### Journal Rank:

JCR - Q2 (Oncology) / CiteScore - Q1 (Oncology)