## **Special Issue**

## Advances in Angiogenesis Research: From Novel Compounds to Mechanistic Insights and Therapeutic Strategies

## Message from the Guest Editor

Angiogenesis—the formation of new blood vessels from pre-existing vasculature—is a tightly regulated physiological process essential for tissue development, repair, and regeneration. Dysregulated angiogenesis, such as pathological neovascularization, underlies the progression of various diseases, including cancer. ocular disorders, and chronic inflammation. In these cases, therapeutic strategies aimed at inhibiting angiogenesis have shown clinical relevance by targeting the abnormal vascular network that sustains disease progression. Conversely, insufficient angiogenesis can compromise tissue perfusion and regeneration, particularly in ischemic or hypoxic conditions such as chronic wounds, myocardial infarction, and neurodegenerative diseases. In these contexts, proangiogenic strategies and molecular inducers of neovascularization represent promising therapeutic approaches to restore tissue function and viability.

We invite original research articles focused on the molecular mechanisms of angiogenesis, including signaling pathways, transcriptional and epigenetic regulation, microRNAs, extracellular vesicles, and the tumor microenvironment.

#### **Guest Editor**

Dr. Juliana Luporini Dreyfuss

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## Deadline for manuscript submissions

31 January 2026



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## Message from the Editor-in-Chief

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### **Editor-in-Chief**

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