

Peer Review

Review of: "Metabolic Reprogramming and Cancer: 2022"

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The article “Metabolic Reprogramming and Cancer: 2022” provides a broad narrative overview of the relationship between cancer metabolism, epithelial–mesenchymal transition, tumour microenvironment interactions, and dietary influences, and its strength lies in integrating multiple molecular pathways into a single conceptual framework. However, the manuscript has several weaknesses that reduce its scientific rigor. First, it lacks a clearly defined systematic review methodology, including search strategy, inclusion/exclusion criteria, and evidence grading, which limits reproducibility and increases the risk of selection bias. Second, many claims—particularly regarding dietary components as drivers of metabolic reprogramming and therapeutic interventions—are presented as associative or speculative without critical evaluation of clinical evidence or strength of causality. Third, the manuscript is excessively descriptive and repetitive, with insufficient synthesis or mechanistic integration between sections. Fourth, figures are largely schematic without quantitative or experimental validation, and the discussion lacks translational or clinical applicability. The study could be improved by adopting a structured systematic or scoping review design, incorporating evidence hierarchy and clinical trial data, reducing redundancy, improving mechanistic synthesis, and adding quantitative or pathway-based models linking diet, metabolism, and cancer progression.

Declarations

Potential competing interests: No potential competing interests to declare.