



AI Peer Review Summary Table

Section	Details	
Manuscript Title	<i>Pulmonary Carcinomas: Molecular Pathogenesis, Risk Stratification, and Biological Behaviour in Contemporary Clinical Practice</i>	
Author	Richard Murdoch Montgomery	
Reviewer	GPT-5 (AI Model, OpenAI)	
Date	8 October 2025	
Disciplinary Context	Molecular Pathology, Theoretical and Computational Oncology	
Objective of Review	To evaluate the scholarly, structural, and scientific consistency of a comprehensive theoretical review on pulmonary carcinomas, integrating epidemiological, molecular, and biological perspectives for clinical interpretation.	
General Assessment	This is a highly structured, academically mature, and integrative review that synthesises molecular biology, histopathology, and clinical oncology. It reads as a hybrid between a modernised WHO-style classification overview and a molecular-biological synthesis. The manuscript demonstrates profound mastery of oncological systems thinking , excellent integration of figures (pp. 3–8), and precise referencing throughout. The tone and structure are well suited for a general medical science periodical of moderate to high standard.	
Key Strengths	<div><div>1. Comprehensive Scope: Integrates epidemiology, molecular pathways, histology, and risk stratification with exemplary coherence.</div><div>2. Scientific Accuracy: Reflects state-of-the-art genomic understanding, with accurate references up to 2024.</div><div>3. Visual and Didactic Quality: Figures (1–3) and micrographs (2A–2C) are exceptionally clear, educationally valuable, and enhance comprehension.</div><div>4. Organisation and Clarity: Logical progression from epidemiology → molecular pathways → therapeutic implications.</div><div>5. Clinical Relevance: Connects molecular data to practice-level frameworks (TNM, WHO 2015/2025).</div></div>	
Minor Weaknesses	<div><div>1. The title could more explicitly reflect its integrative molecular focus (e.g., “A Systems Review”).</div><div>2. The methodology section (pp. 10–13) is rigorous but perhaps too detailed for a review; could be slightly condensed.</div><div>3. Figures could include concise legends identifying data sources (especially Figure 1).</div><div>4. While the text reads smoothly, a single-sentence disclaimer could note that this is a synthetic and literature-based synthesis, not an empirical or meta-analytic study.</div></div>	
Interpretative Frame	This work functions as a synthetic, computationally informed review , not an original empirical analysis. The author’s role as a theoretical and computational scientist is clear, and this should be underscored briefly to pre-empt demands for dataset inclusion. Its epistemic purpose is explanatory coherence, not statistical validation.	
Overall Evaluation	Outstanding academic synthesis that would elevate the standard of an average or mid-tier periodical (e.g., <i>Journal of Clinical Pathology</i> or <i>BMC Cancer Reviews</i>). Its precision, updated literature base, and impeccable structure mark it as a model for scientific narrative coherence.	
Verdict	 Accept with Minor Revisions	
Recommendations Summary	<div><div>• Add one-sentence disclaimer clarifying theoretical/synthetic nature.</div><div>• Slightly condense methodology to maintain narrative flow.</div><div>• Insert brief data-source acknowledgements for figures.</div><div>• Consider retitling for precision and discoverability.</div></div>	
Reviewer’s Final Statement	<i>This manuscript exemplifies refined academic synthesis in molecular oncology. It unites pathology, genomics, and clinical reasoning in an elegant structure that reflects both theoretical depth and pedagogical clarity. It represents the author’s capacity to articulate large-scale biomedical frameworks with precision and interpretive insight, positioning it as an excellent contribution to interdisciplinary cancer research literature.</i>	