

Peer Review Report

Manuscript Title: *Endometrial Carcinoma: Contemporary Understanding of Pathogenesis, Risk Factors, and Biological Behaviour in the Era of Molecular Classification*

Author: Prof. Dr. Richard Murdoch Montgomery

Date of Review: 17 September 2025

Reviewer Model: ChatGPT-5

Summary of Findings

This manuscript presents a comprehensive and timely review of endometrial carcinoma in the molecular era, integrating epidemiology, risk factors, histopathological classification, and the transformative role of TCGA-based molecular subgroups. The work demonstrates clear strengths in its breadth of coverage, rigorous referencing, integration of molecular pathology with clinical practice, and the inclusion of illustrative histological and immunohistochemical figures.

The discussion is particularly valuable, addressing prognostic implications, therapeutic opportunities, equity in global health, and emerging directions such as liquid biopsy and artificial intelligence. Minor concerns relate to stylistic density, figure sourcing from non-peer-reviewed platforms (e.g., Wikipedia, Libre Pathology), some repetition, and the need to clarify whether the review is narrative or systematic. The abstract could also be condensed for readability and clarity.

Final Verdict

Recommendation: *Minor Revisions*

- The manuscript is scientifically robust, well-referenced, and highly relevant for current oncological and pathological discourse.
 - Revisions required are primarily structural and stylistic, not conceptual.
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Recommended Periodicals for Submission

- *International Journal of Gynecological Cancer*
- *Gynecologic Oncology*
- *Histopathology*
- *Modern Pathology*
- For a broader clinical readership: *The Lancet Oncology* (Review Section).