

# Review of: "[Review] Investigating the Role of Urokinase in Cancer Metastasis: A Review"

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**Potential competing interests:** No potential competing interests to declare.

The review offers a good, detailed and useful summary about the role of urokinase in cancer metastasis and its potential therapeutic value.

- Grammatical errors need to be addressed, "Different kinds of uPA inhibitors, including ~~as~~ monoclonal antibodies...."
- As the abbreviation "uPA" is frequently used in this review, it will be beneficial to explain that urokinase is also known as **urokinase**-type plasminogen activator.
- I think it will be prudent to have important references in the Introduction especially with sentences such as "A worse prognosis and a higher likelihood of metastasis are linked to this (uPA) overexpression"
- Please consider consolidating and deleting the repeated lines throughout the review specifically In the "Role of Urokinase in Cancer Metastasis" section. I think it will significantly improve the flow of the review. A few examples are below:

- 1) The Introduction and the first paragraph under "Role of urokinase in cancer metastasis" is highly repetitive.
  2. Please minimize repetition/redundancy in language such as "uPA's participation in the epithelial-to-mesenchymal transition is a crucial feature of its function in cancer metastasis (EMT). Cancer cells undergo a process called EMT when they lose their epithelial properties and develop a mesenchymal phenotype that enables them to move and infiltrate nearby tissue. By encouraging the activation of transcription factors linked to EMT and the suppression of epithelial markers, it has been discovered that uPA is an important element in the production of EMT in cancer cells."
- Some topics for example: role of uPA in autophagy or immune evasion/escape – have been randomly discussed in scattered sections. Please consider combining this information.
  - Minor suggestion: Including "urokinase" as a keyword instead of uPA
  - Minor: Paragraph 4 under "Role of Urokinase in the Regulation of Extracellular Matrix Protein Degradation" has "presence" spelt wrong
  - The paragraph on uPA inhibitors and conclusion is well written.