RETRACTION NOTE

Retraction Note: Tumor microenvironment and immune system preservation in early-stage breast cancer: routes for early recurrence after mastectomy and treatment for lobular and ductal forms of disease

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The Editor has retracted this article because it contains material that substantially overlaps with [1, 2]. The corresponding author Hassan A. Saad has stated that all authors agree with this retraction.

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References

- Andrianto A, et al. Immune system and tumor microenvironment in early-stage breast cancer: different mechanisms for early recurrence after mastectomy and chemotherapy on ductal and lobular types. F1000 Res. 2023;12:841.
- 2. Tower, et al. The Immune Microenvironment of breast Cancer progression. Cancers. 2019;11(9):1375.

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