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KEY WORDS (at least 5 words)

- ✓ miRNA
- ✓ NSCLC
- ✓ Immunotherapy
- ✓ PD-1
- ✓ PDL-1

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INVESTIGATION OF THE ROLE OF miRNAs IN IMMUNOTHERAPY EFFICACY IN NON-SMALL CELL LUNG CANCER

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THESIS ABSTRACT

Lung cancer is the leading cause of cancer-related deaths worldwide. It has been proven that lung cancer can evade immune surveillance using various mechanisms, including "immune checkpoints." Immunotherapy is revolutionizing the treatment of NSCLC. Immune checkpoint inhibitors (ICPIs), particularly programmed cell death protein-1 (PD-1) and programmed death ligand-1 (PD-L1) inhibitors, are considered one of the most important breakthroughs in cancer treatment. Circulating microRNAs (miRNAs) are believed to play a role in intercellular communication between immune cells and between immune and tumor cells, and to represent a good source of biomarkers related to this mechanism. Clinical trials of immunotherapy are currently underway in patients with NSCLC. This study is highly current because it is a biomarker-targeted investigation of immunotherapy in patients diagnosed with NSCLC and has the potential to become routine. The aim of the study is to evaluate the efficacy of immunotherapy for NSCLC patients.

APPLICATION AREAS OF THE THESIS RESULTS

This study serves as a preliminary work for advanced molecular research and should be supported by further studies to develop translational medicine applications and generate a more comprehensive dataset. Our study has existing application areas for targeted therapies in translational medicine and medical oncology, and these areas are open to development.

ACADEMIC ACTIVITIES

1. BUÜ TDK-2025-2436- number Post Graduate Project (LTP)
2. A multicenter study of genotype variation and demographic information patterns in 2475 individuals including 1444 cases with a diagnosis of breast cancer in Turkey. Eur J Breast Health. 2023 Jul