

**Genomic and epidemiological profile of cervical cancer patients
- identifying risk factors, pathways and novel variants through
integrated survey and whole exome sequencing strategies**

**By
B. Sudha
(19PHBTF001)**

**Supervisor
Dr. S. Sumathi**

**A Thesis Submitted to
Avinashilingam Institute for Home Science and Higher Education for
Women, Coimbatore - 641 043**

**In Partial Fulfilment of the Requirements for the Degree of
Doctor of Philosophy in Biotechnology**

January 2025

80_Recommendations

The findings of this study have paved the way for numerous opportunities for future research. A few of these recommendations are outlined below.

- ❖ Validate findings using additional patient cohorts and experimental models.
- ❖ Develop biomarkers for early detection and monitoring of cervical cancer.
- ❖ Explore potential therapeutic applications of identified genetic variants.
- ❖ To develop personalized treatment modalities based on genetic profiling
- ❖ To construct a risk prediction model using machine learning approaches