

# Refining the classification of breast phyllodes tumours (PTs)

**Project summary:** This project proposes to build a robust, international, living library of rare PTs, with a focus on borderline and malignant grades, as well as PTs with malignant heterologous elements. Genomic and histological analyses will inform and refine future classifications.

## Justification

Breast PTs are rare neoplasms, even in Asia where it is more prevalent than in Western populations. Studies often encounter limitations of small sample size, especially of the borderline and malignant varieties.

Current classification of PTs is not perfect and could be further refined for better prognostication and treatment stratification. The impact of malignant heterologous elements on biological behaviour of PTs remains uncertain.

## Goal

An international collaboration to combine global experiences with these uncommon PTs will be better able to achieve larger sample sizes with more reliable results. Histological assessment, in conjunction with protein and genomic analysis, correlated with clinical outcomes, will form the basis for a more robust classification.

## Target audience

Pathologists, Oncologists, Breast surgeons, Breast diseases researchers

This project is being developed under Singapore General Hospital's leadership, led by Dr Puay Hoon Tan, in association with IARC WCT Group and in coordination with the WCT EVI MAP project.