



# CUPGUIDE ANALYSES THE EXPRESSION OF 3549 GENES IN FORMALIN- FIXED PARAFFIN EMBEDDED METASTATIC TUMOUR SAMPLES AND MATCHES THEIR PROFILE TO A DATABASE OF KNOWN TUMOURS.

## PUBLICATIONS

Mileshkin et al. Development of a histology-guided gene expression tumor classifier for cancer of unknown primary (CUP). J Clin Oncol 32:5s, 2014 (suppl; abstr 11108)(ASCO Poster).

Tothill et al. Development and Validation of a Gene Expression Tumour Classifier for Cancer of Unknown Primary. Pathology (2014) submitted for publication.

## CUPGUIDE V1.0

CUPGuide v1.0 is a histology-guided gene expression tumour classifier used to aid the identification of the primary tumour in cases of cancer of unknown primary (CUP). CUPGuide v1.0 integrates both conventional histological findings and gene expression analysis. Results of analysis are reviewed and reported by an anatomical pathologist.

CUPGuide v1.0 may improve the diagnostic accuracy of histology alone in cases of poorly differentiated or undifferentiated tumours by analysing the expression profile of 3549 genes of an unknown tumour and matching this to tumours within the CUPGuide database.

CUPGuide v1.0 was developed through collaboration between Healthscope Pathology, Peter MacCallum Cancer Centre, the National ICT and Circadian Technologies.

## TUMOUR TYPES WITHIN THE CUPGUIDE DATABASE

Transitional cell carcinoma, breast adenocarcinoma, cholangiocarcinoma, colorectal adenocarcinoma, gastric adenocarcinoma, hepatocellular carcinoma, lung adenocarcinoma, renal cell carcinoma, neuroendocrine carcinoma, melanoma, mesothelioma, ovarian serous or clear cell carcinoma, pancreatic adenocarcinoma, prostate adenocarcinoma, squamous cell carcinoma, sarcoma (leiomyosarcoma, Ewings sarcoma, rhabdomyosarcoma), seminoma, medullary and papillary thyroid carcinoma.

## WHEN TO USE

- Poorly differentiated or undifferentiated tumours
- No clear diagnosis by conventional histopathology
- Patient fails to respond to treatment and initial diagnosis is questioned

## HOW TO REQUEST CUPGUIDE V1.0

Fax a request, together with a payment form and copy of original histology report to FAX:03-9543-5611

Payment/application forms can be requested by phoning 03-9538-2259 or emailing:  
[cupguide@healthscope.com.au](mailto:cupguide@healthscope.com.au)

## SAMPLE REQUIRED

Formalin-fixed paraffin embedded tissue block containing tumour,

OR 10 sections, 7 microns thick, air dried, unstained, mounted on glass slides, plus 1 x H&E stained slide. (Please note that a tumour content >70% is required for analysis).

## ESTIMATED TIME TO RESULT

10-15 working days from sample receipt in laboratory.

## LIMITATIONS

CUPGuide v1.0 is not a diagnostic assay. It is intended to aid the cancer classification process in difficult cases. CUPGuide classification should be interpreted in conjunction with clinical, radiological and histological findings. Tumour types not in the CUPGuide database may have expression profiles that are similar to tumour profiles within the database, and therefore may be unclassifiable or potentially misclassified.