Figure Legends.

**Figure 1. Representative images of nestin expression in controls.** (A) nestin expression in the neuroretina; inner, outer nuclear layer and the optic nerve layer (10x magnification). (B) The retinal pigment epithelium is negative for nestin. The capillary endothelium in the choroid expressed nestin while the surrounding choroidal melanocytes are negative (10x magnification). (C) PUM tissue section expressing nestin in the intratumoural capillary endothelium (10x magnification). (D) PUM tissue with less than 10% of tumour cells expressing nestin. This was graded as negative in our statistical analysis (10x magnification). (E) normal choroidal melanocytes in a tissue section stained for nestin. The normal melanocytes do not express nestin. (40x magnification).

**Figure 2. Representative images of nestin expression in PUM.** PUM tissue sections expressing nestin in 10-50% of the cells (A, B). Nestin expression in >50% of cells (C, D) 10x magnification. Insets show staining at x40 magnification.

**Figure 3. Kaplan-Meier survival curve and table for all PUM stratified according to nestin expression.** UM patients who died from other causes were excluded from the analysis. No. of events indicates the number of deaths from metastatic melanoma.

**Figure 4. Representative images of nestin expression in MUM.** (10x magnification). Insets show nestin expression at x40 magnification. Images A and B show a high proportion of nestin expressing UM cells both inside closed connective tissue loops and outside. Image C shows only a few nestin positive cells while D shows nestin expression in the capillary endothelium of the MUM.

**Figure 5. Nestin expression in matched PUM-MUM.** (A) High proportion of nestin expressing tumour cells in both the PUM and MUM. A and C are the H&E stained and B and D the Nestin stained images from the same UM. (B) Nestin expression in tumour cells of the PUM contained within large closed connective tissue loops. The MUM showed nestin expression in large ovoid tumour cells. E and G are the H&E stained and F and H the Nestin stained images from the same UM.

**Table 1. Clinicopathological characterization of the PUM.** LBD= Largest basal diameter, UH= Ultrasound height; CBI= Ciliary Body involvement; EOE= Extraocular extension.