



Fig. S2. Morphological illustration of a malignant melanoma on congenital melanocytic naevus with CGH data (patient 3). (A and B) Early histological presentation of the melanoma presenting with spindle-shaped pigmented cells without any atypia similar to blue naevus (HES $\times 100$). (C) Some years later, atypical features with large epithelioid non-pigmented cells, cytological atypia and mitoses ($\times 200$). (D) Immunohistochemistry with P16 showing strong both cytoplasmic and nuclear expression ($\times 200$). (E) Immunohistochemistry with HMB45 showing diffuse cytoplasmic positivity ($\times 200$). (F) Ki67 evaluation showing a low proliferative index ($\times 100$). (G) Comparative genomic hybridization profile showing complex profile similar to a sporadic melanoma.