



**Fig. S1.** (A) Sebaceous carcinoma (SC) presenting as a pink, round nodule on the nose of a 52-year-old man. (b) SC presenting as a brown infiltrating skin lesion on the trunk of a 62-year-old man. (c) Scanning view ( $\times 1.25$  magnification; haematoxylin and eosin staining (H&E)) showing an ulcerated exophytic and endophytic carcinomatous proliferation made of aggregates of mostly basaloid epithelial cells; (d) Example of well-differentiated sebaceous carcinoma with prominent mature atypical sebocytes and mitotic figures ( $\times 200$  magnification; H&E); (e) Example of poorly-differentiated sebaceous carcinoma made of atypical basaloid cells, with focal evidence of sebaceous differentiation ( $\times 200$  magnification; H&E).