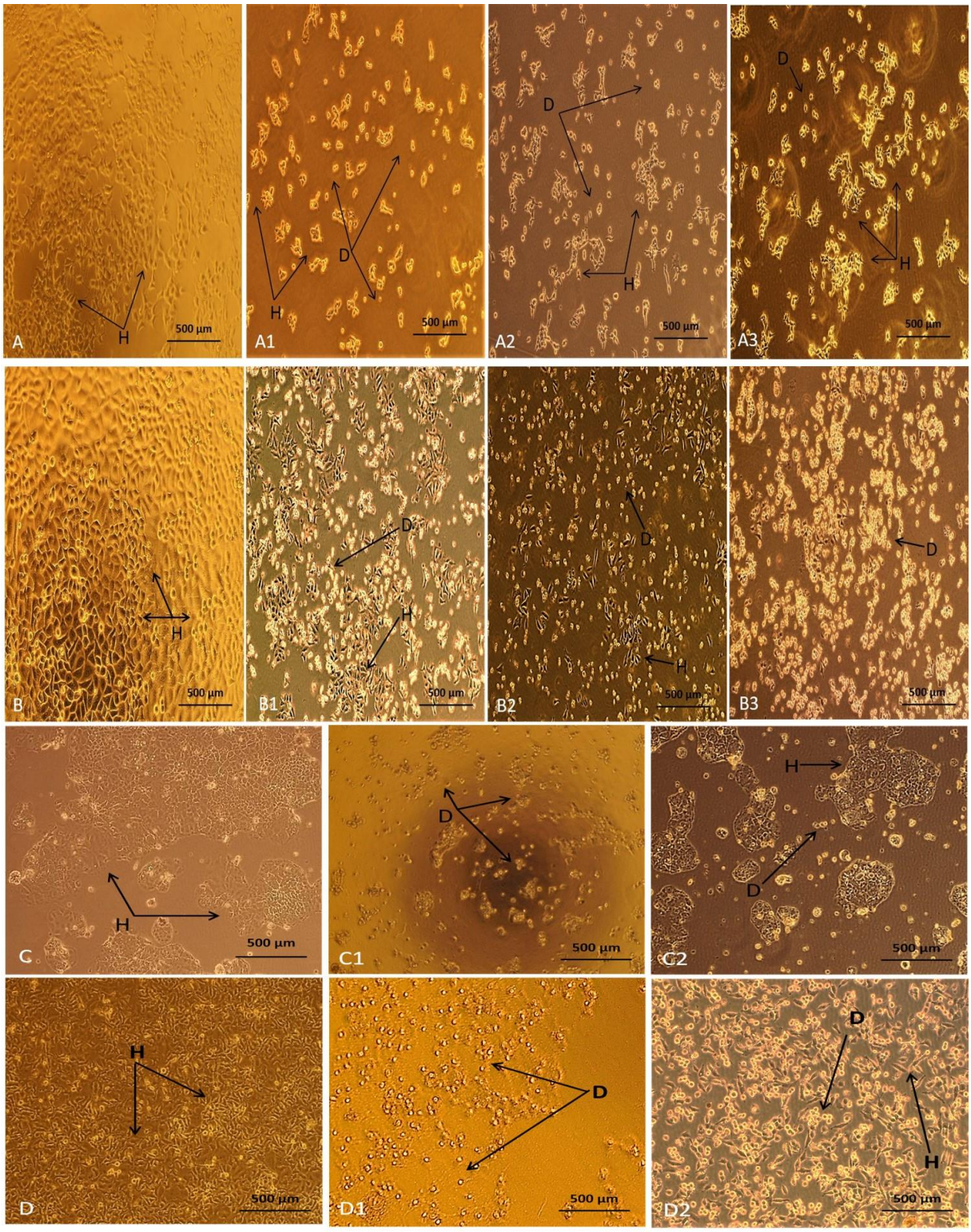
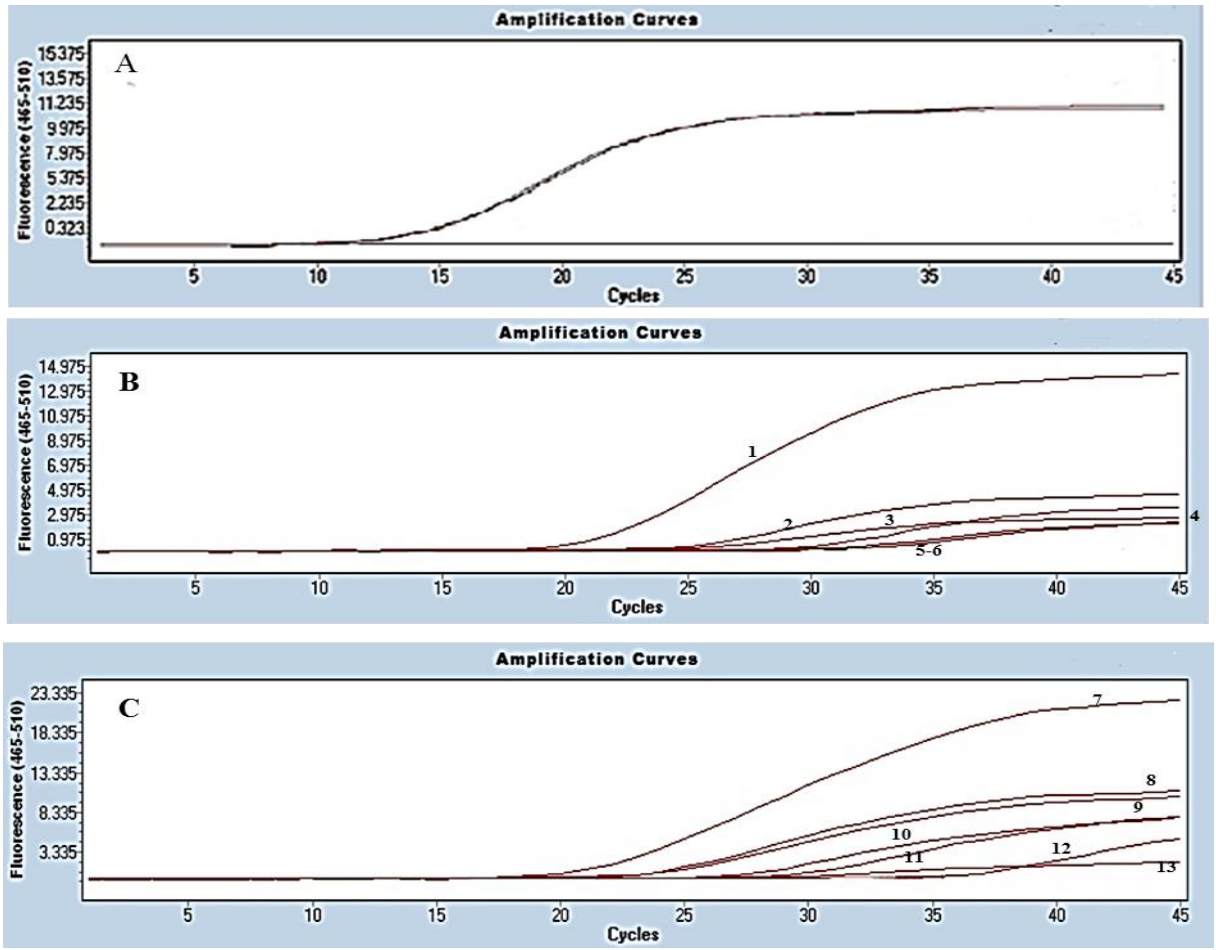


ESM 1 Online Resource 1 Morphological changes on cancer cells line following *H.scoparia* extract-traeted were examined under inverted microscope. HEK293, HeLa, MCF-7 and CaCo-2 cells were treated with 5 µg/ml *H.scoparia* extracts for 48 h at 37°C. (**HeLa cells); A:** un-treated, **A1**: Hex, **A2**: Chl, **A3**: Met. (**HEK 293 cells); B:** un-treated, **B1:** Hex, **B2:** Chl, **B3**: Met. (**CaCo-2 cells); C:** un-treated, **C1:** Hex, **C2:** Met. (**MCF-7 cells); D:** un-treated, **D1:** Chl, **D2:** Met Hex: *n*-Hexane, Chl: Chloroform, Met: Methanol



ESM 2 Online Resource 2 Amplification curves of Ct values for the expression of studied genes in reference cancer cell lines obtained by RT-PCR. Ct values of ACTB1/GAPDH1 referans genes **(a)** and examples **(b and c)** at 465-510 nm defined as (**1)** HeLa cells control (Ct=21.59), (**2)** CaCo-2 cells control (Ct=25.38), (**3)** MCF-7 cells control (Ct=26.24), (**4)** Chl extract in HEK-293 cells (Ct=29.94), (**5)** Hex extract in HEK-293 cells (Ct=31.56), (**6)** Met extract in HEK-293 cells (Ct=31.62), (**7)** Hex extract in HeLa cells (Ct=21.66), (**8)** Chl extract in HeLa cells (Ct=23.90), (**9)** Met extract in HeLa cells (Ct=24.41), (**10)** Hex extract in CaCo-2 cells (Ct=27.59), (**11)** Met extract in CaCo-2 cells (Ct=29.66), (**12)** Chl extract in MCF-7 cells (Ct=29.95), (**13)** Met extract in MCF-7 cells (Ct=36.76). Hex: *n*-Hexane, Chl: Chloroform, Met: Methanol