

**Monitoring alterations of all-*trans*-retinal in human brain cancer cells by label-free
confocal Raman imaging: regulation of redox status of cytochrome c**

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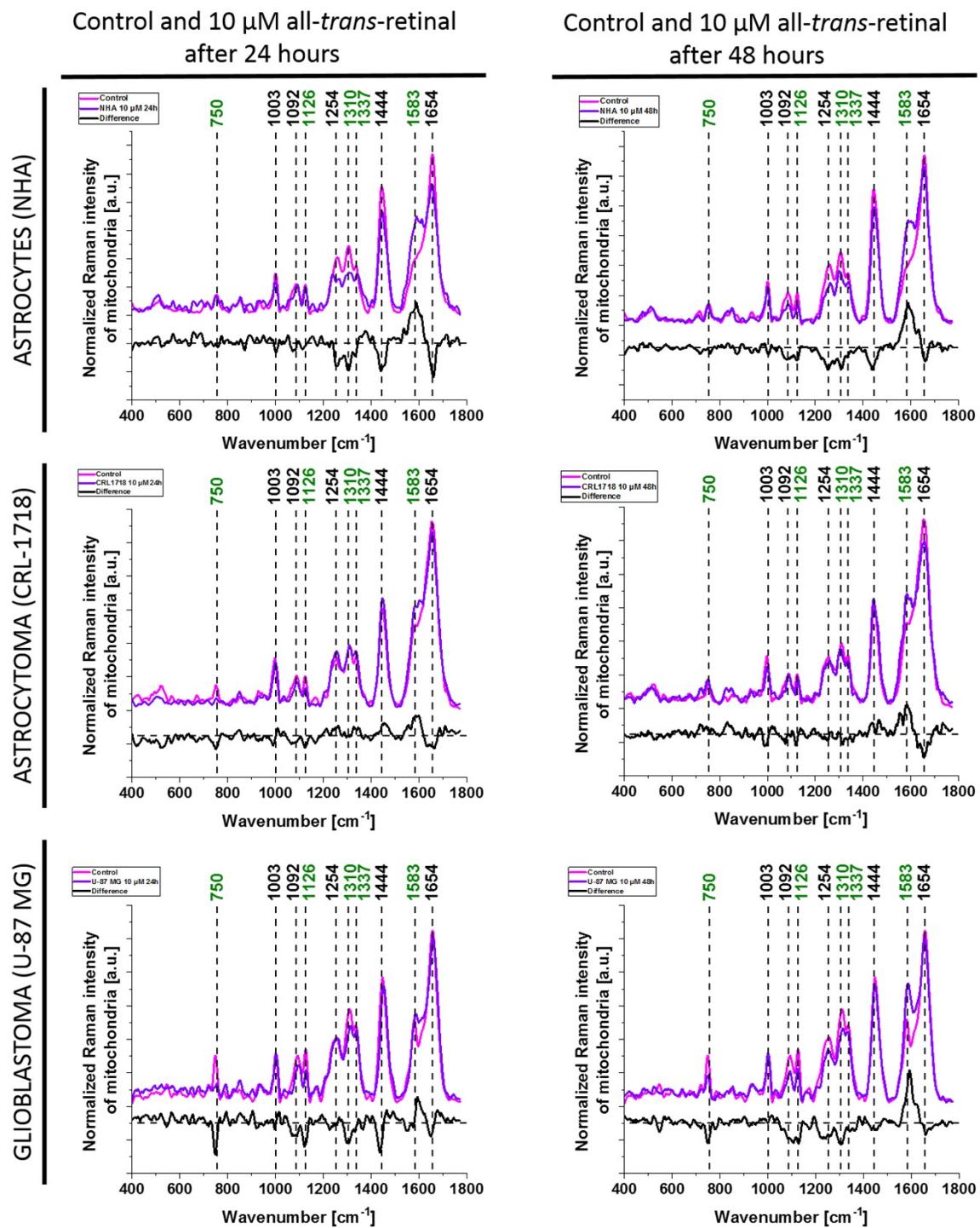


Figure S1. Average and difference spectra for cell mitochondria from NHA, CRL-1718 and U-87 MG cell lines, control and supplemented with 10 μ M all-*trans*-retinal of two incubation times: 24 (left) and 48 (right) hours. Magenta – average from control cells, purple – average from cells supplemented with 10 μ M all-*trans*-retinal, black – difference spectrum (supplemented – control).

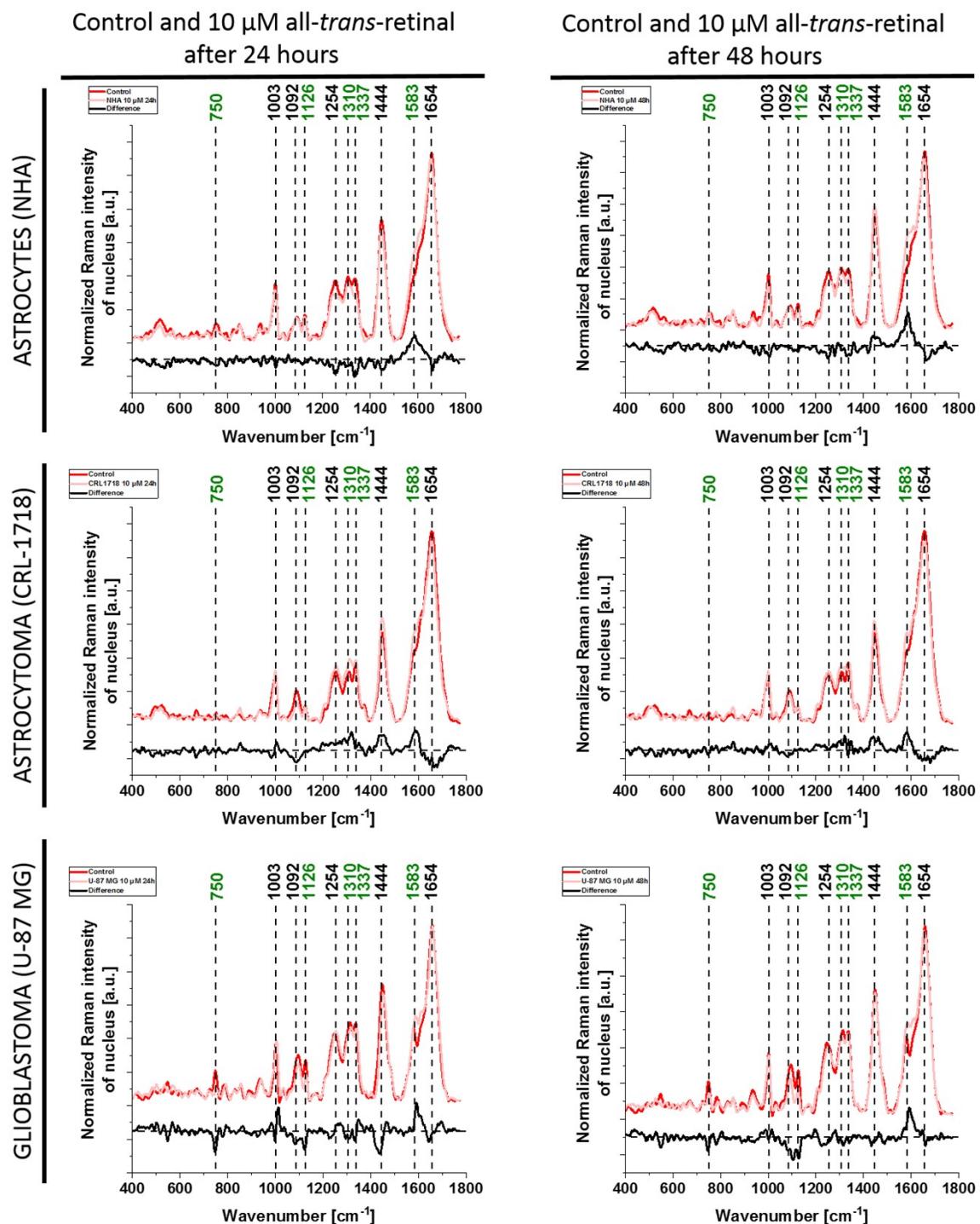


Figure S2. Average and difference spectra for cell nucleus from NHA, CRL-1718 and U-87 MG cell lines, control and supplemented with 10 μ M all-trans-retinal of two incubation times: 24 (left) and 48 (right) hours. Red – average from control cells, light red – average from cells supplemented with 10 μ M all-trans-retinal, black – difference spectrum (supplemented – control).

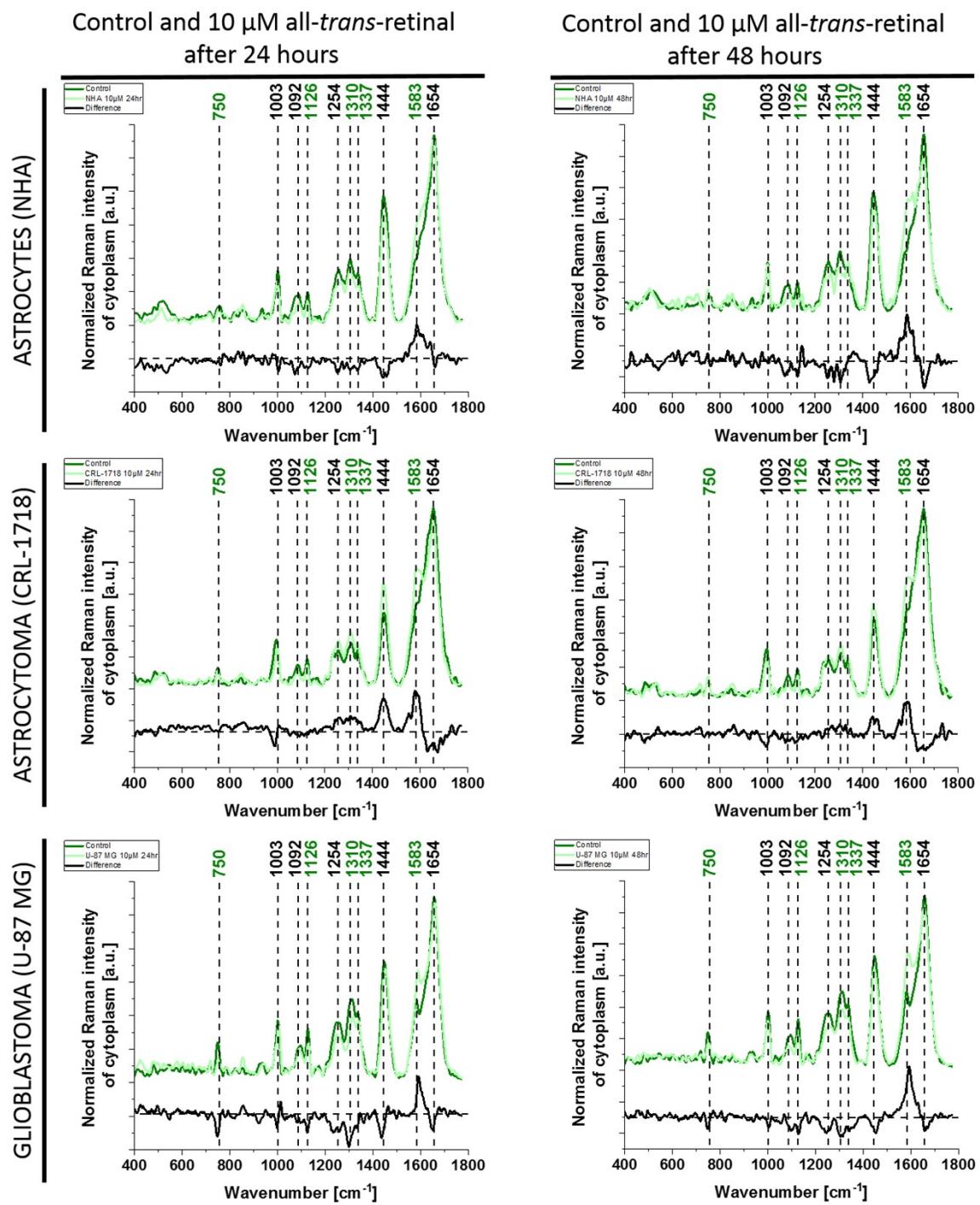


Figure S3. Average and difference spectra for cell cytoplasm from NHA, CRL-1718 and U-87 MG cell lines, control and supplemented with 10 μ M all-trans-retinal of two incubation times: 24 (left) and 48 (right) hours. Dark green – average from control cells, light green – average from cells supplemented with 10 μ M all-trans-retinal, black – difference spectrum (supplemented – control).