

Supplementary Information

Figure 1S: Average and standard deviation ($n=20$) spectra of rat tail tendon in the 2500-3800 cm^{-1} range in non-polarized mode (b), with IR radiation polarized perpendicular (\perp) (a) and parallel (\parallel) (c) to the x-axis of the motorized plate. The tendon was aligned along this x-axis direction.

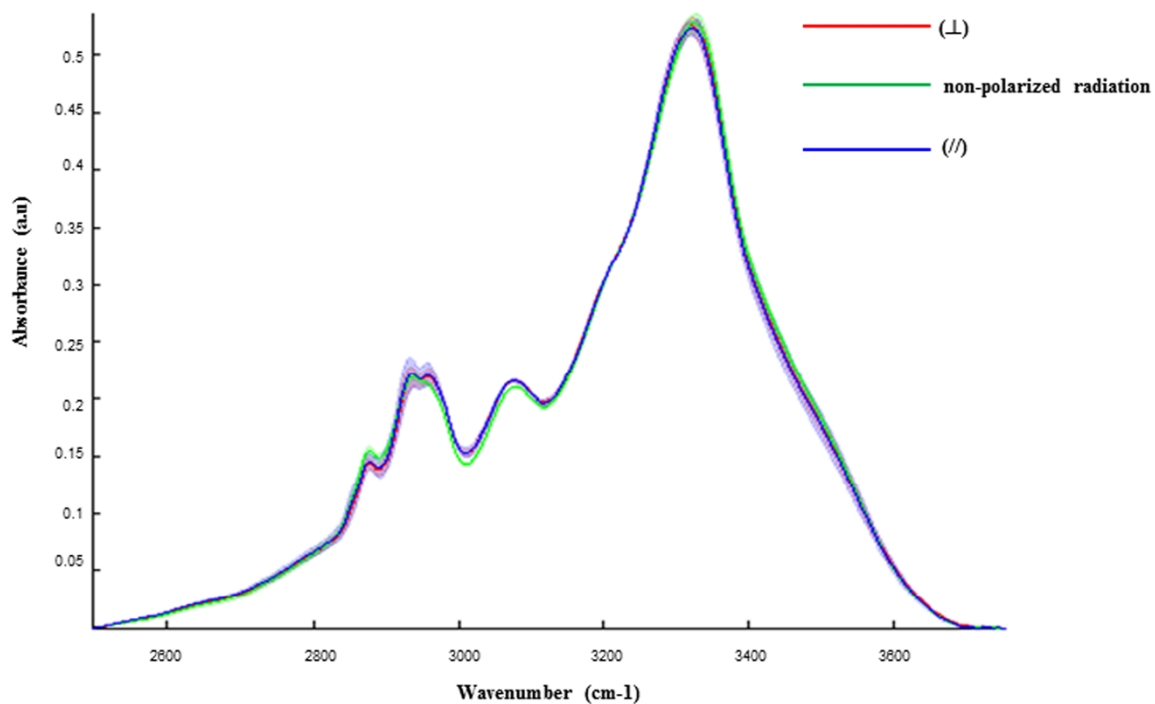


Figure 2S: Dendrogram corresponding to the color-coded HCA clustered images obtained for the 41(1) year old skin sample.

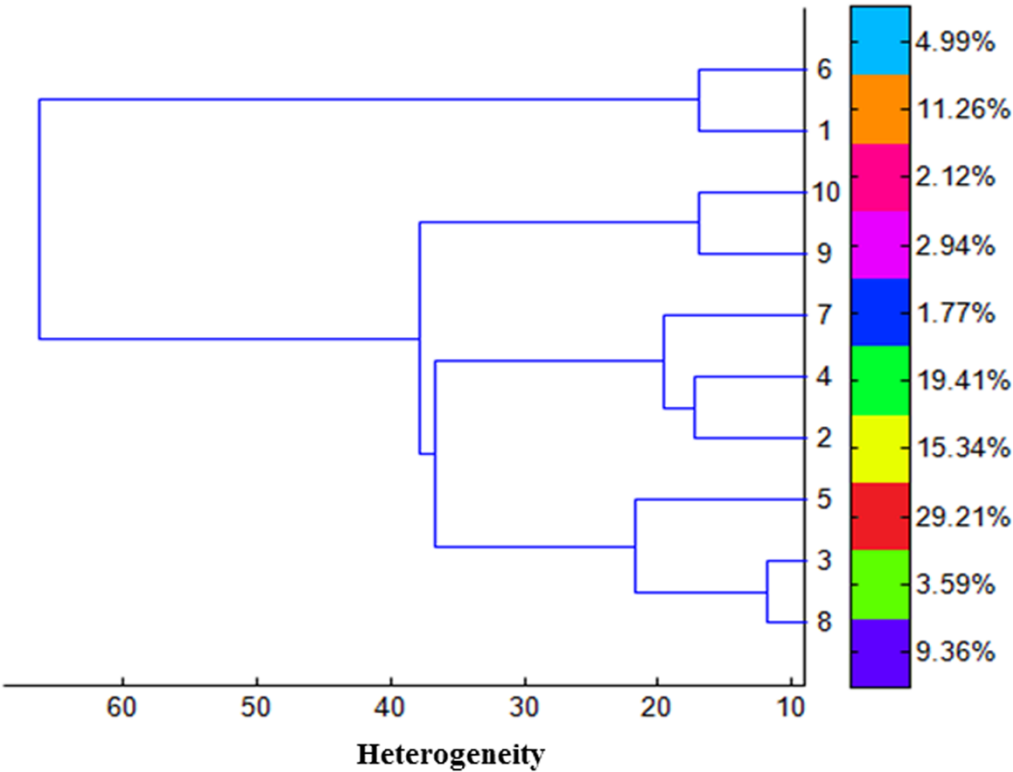


Figure 3S: Centroids (mean spectra and their standard deviation) of HCA clusters representative of the dermis. For each sample, three clusters were recovered.

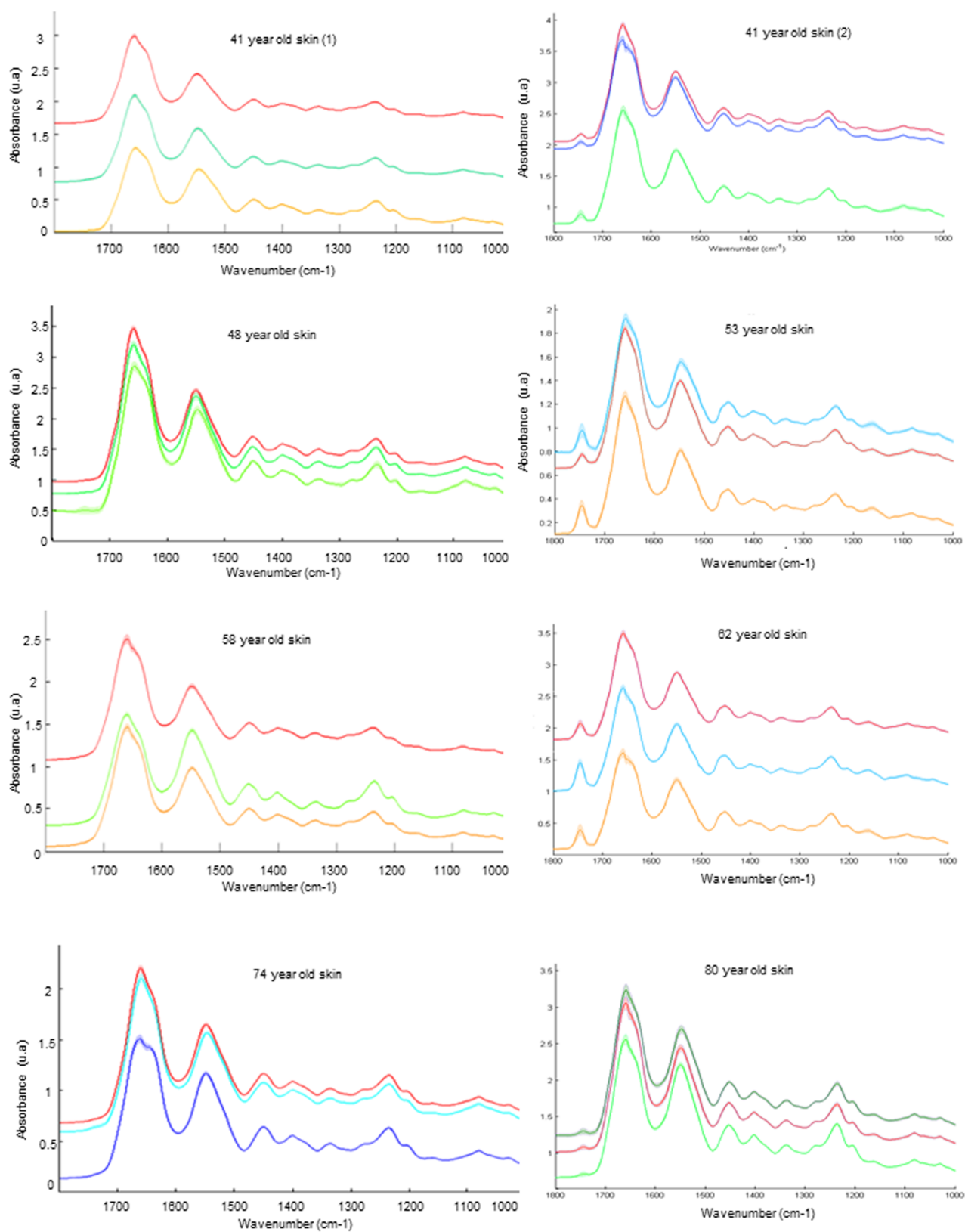


Figure 4S: SHG intensity for the eight skin samples of different age.

