

Irradiance-dependent UVB Photocarcinogenesis

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Supplementary file

Fig. S1. The emission spectrum of the irradiation source MEL308 as provided by the manufacturer.

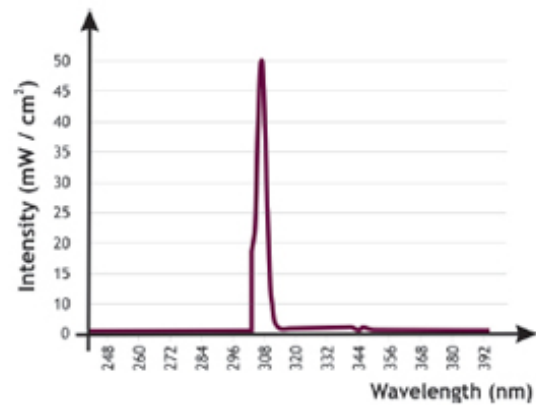
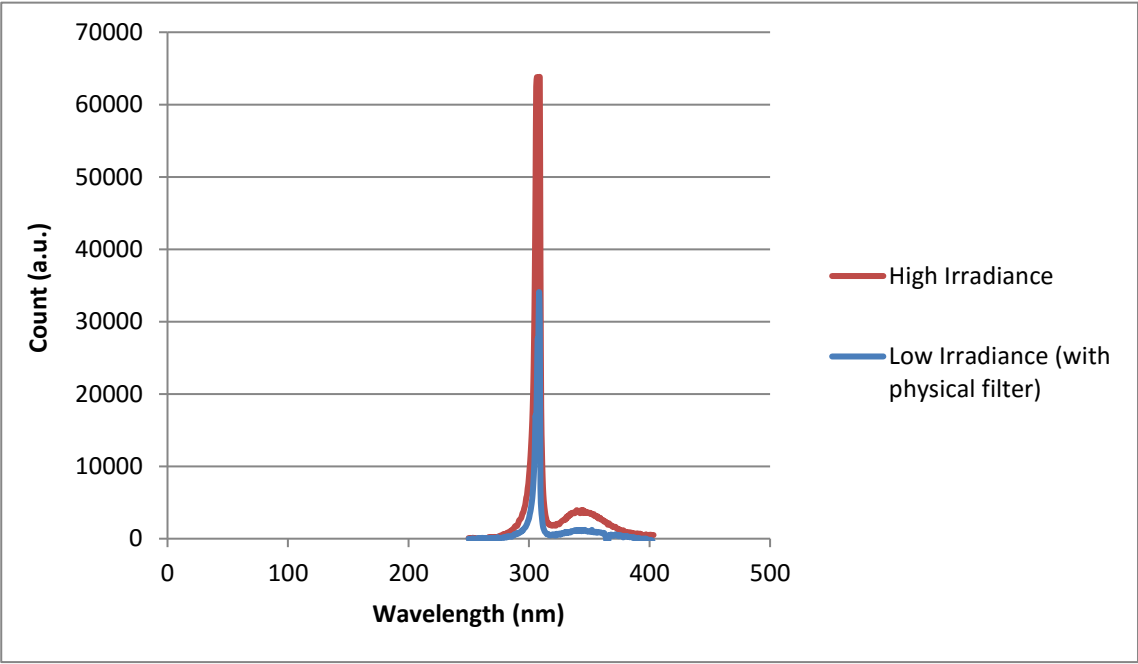
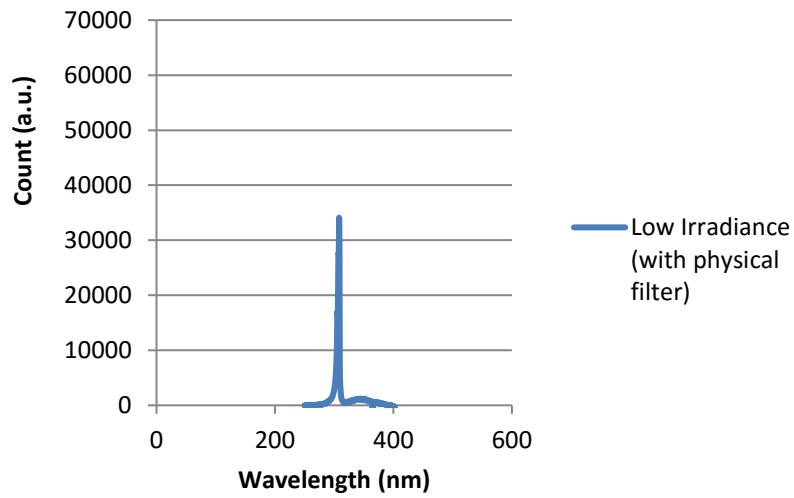


Fig. S2. The spectral irradiance of the UVB emitting source with and without neutral density filter was measured using a spectroradiometer (i-SpecTM; B&W Tek, Inc., Newark, DE, USA). a.u. indicates arbitrary unit.



Low Irradiance (with physical filter)



High Irradiance

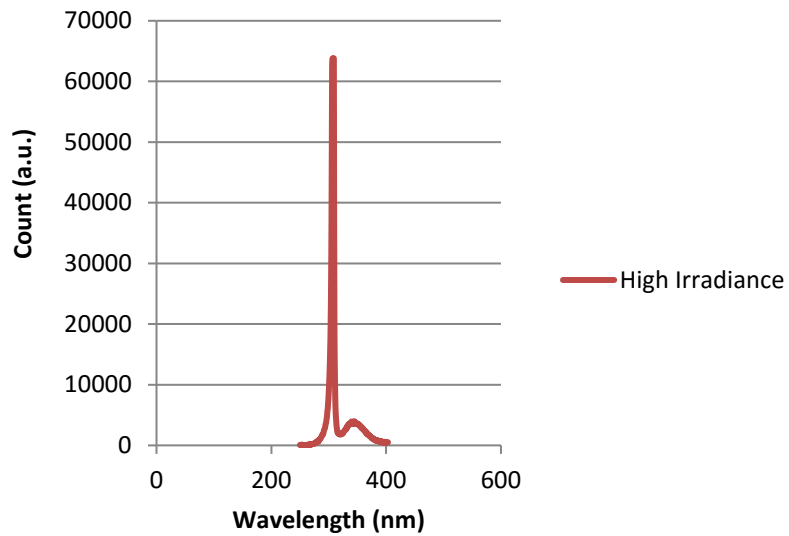


Fig S3. The expression of cyclopymidine dimer (CPD) of mice skin after indicated treatment. As demonstrated below (upper panel), the low irradiance (LI) UVB treated mice epidermis demonstrated higher portion of epidermal keratinocytes containing CPD at the time of biopsy as compared to their high irradiance (HI) treated counterpart. The quantitative analysis is shown in the lower panel. However, the difference between the LI and HI UVB treated groups did not achieve statistical significance (p=0.056)

