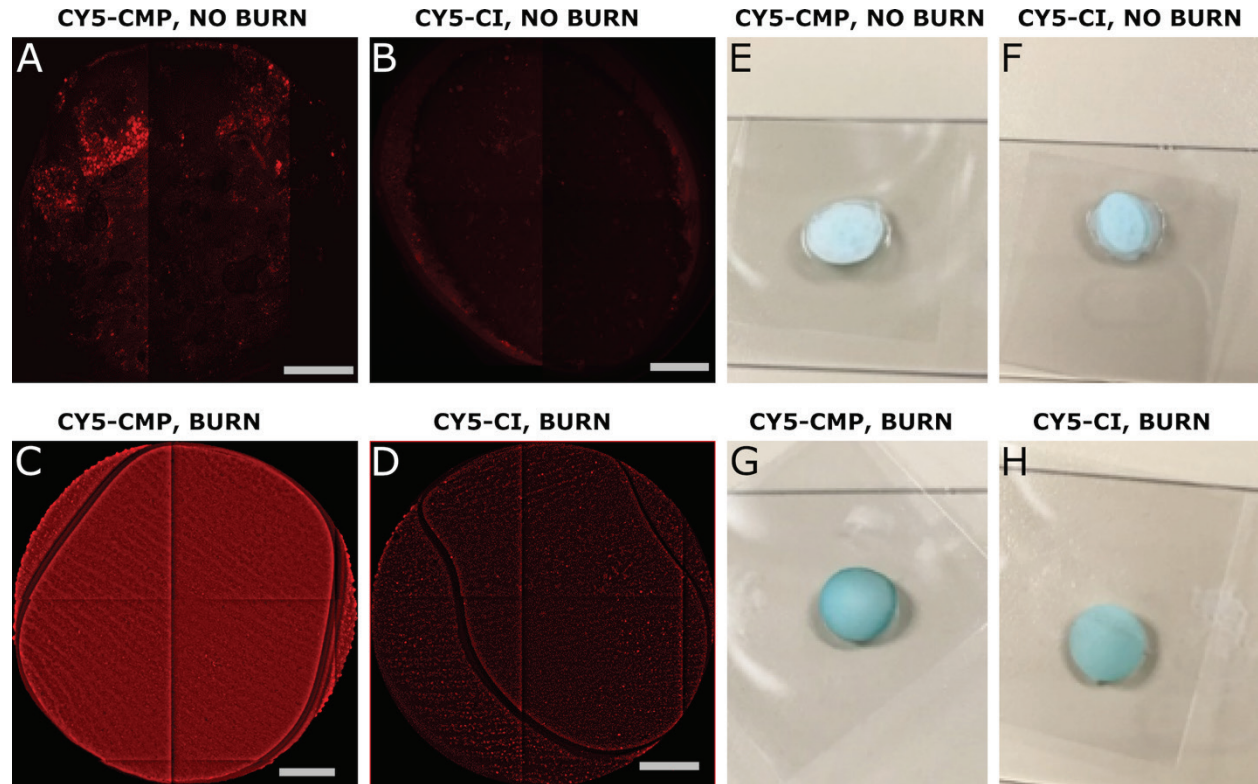


**Optical imaging of collagen fiber damage to assess thermally injured human skin**

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**Figure S1** Cy5 multiphoton excitation fluorescence images of 6 mm biopsy punches from (A,B) normal non-burned skin and (C,D) burned skin excised from a patient treated with (A,C) Cy5-CMP or (B,D) Cy5-CI. Cy5-CMP shows enhanced binding with greater contrast on the superficial surface of these clinical biopsies. (E) Cy5-CMP and (F) Cy5-CI on non-burned skin compared to (G) Cy5-CMP and (H) Cy5-CI on burned skin, displaying what a wound treated with Cy5-CMP would look like vs normal skin after washing. Cy5-CMP and Cy5-CI appear blue to the naked eye under white light. Note: in images (C) and (D) a liquid droplet from the dye application is visible as an artifact surrounding the punch. Scale bars = 1 mm.