A protective study of UV protection materials against UV exposure in Antarctica

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Due to the destruction of the environment, the ozone halls in the Antarctica have developed in the spring, creating fears of short-wave ultraviolet light irradiating the ground surface. In this study, various UV-cut materials pasted onto collagen artificial skin were exposed in the Antarctica to study the protective effect of the UV-cut materials on the collagen artificial skin. In addition, human skin cells are cultured in the Antarctica to examine the effect of UV. These are the first such studies in the world, attracting much attention.

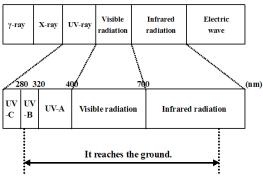


Fig. **Solar Spectrum**



The author at Syowa Station

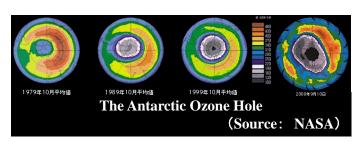
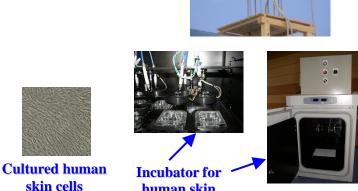




Fig. Sunlight exposure experiment of Takahashi Lab. at Syowa Station, Antarctica



Solar Tracking System (Concentrated solar energy)

Cell culture experiment and its Apparatus Fig.

human skin





Japanese newspaper article