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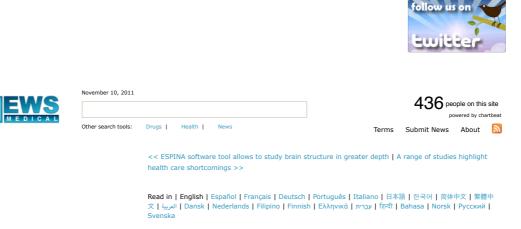
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Study reveals role of circadian rhythms in regenerative capacity of skin stem cells

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The genes Bmal1 and Period1/2 are responsible for controlling this rhythm and regulating cell regenerative activity or rest. Through the genetic manipulation of both genes, the researchers showed that disruption of the biological clock in skin stem cells prevented the cells from knowing when to exercise which function, and that this caused long-term problems in cellular ageing and tissue generation. Moreover, the arrhythmia in the clock also significantly increased the propensity to develop a type of skin cancer which is one of the most commonly diagnosed cancers in industrialised societies.

The biological clock (commonly known as the "circadian rhythm") arranges all of our biological functions according to the natural cycles of light and darkness to which we are exposed on a daily basis. The results of the group from the Centre for Genomic Regulation show that skin regeneration, essential to prevent from ageing and tumour development, is also subject to these rhythms. As we age, the accuracy of this biological clock tends to fade gradually with changes in our daily routine, specially with those who are exposed to constant changes like jet lag in frecuent flyers. Researchers believe this may eventually cause failure in the regenerative capacity of our tissues and consequent ageing, and, in addition, a greater propensity to tumour development. More research will be needed in the future to understand why the biological clock fades as we age, and whether ways to restore a "young" clock can be developing tumours.

Source: http://www.crg.eu

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