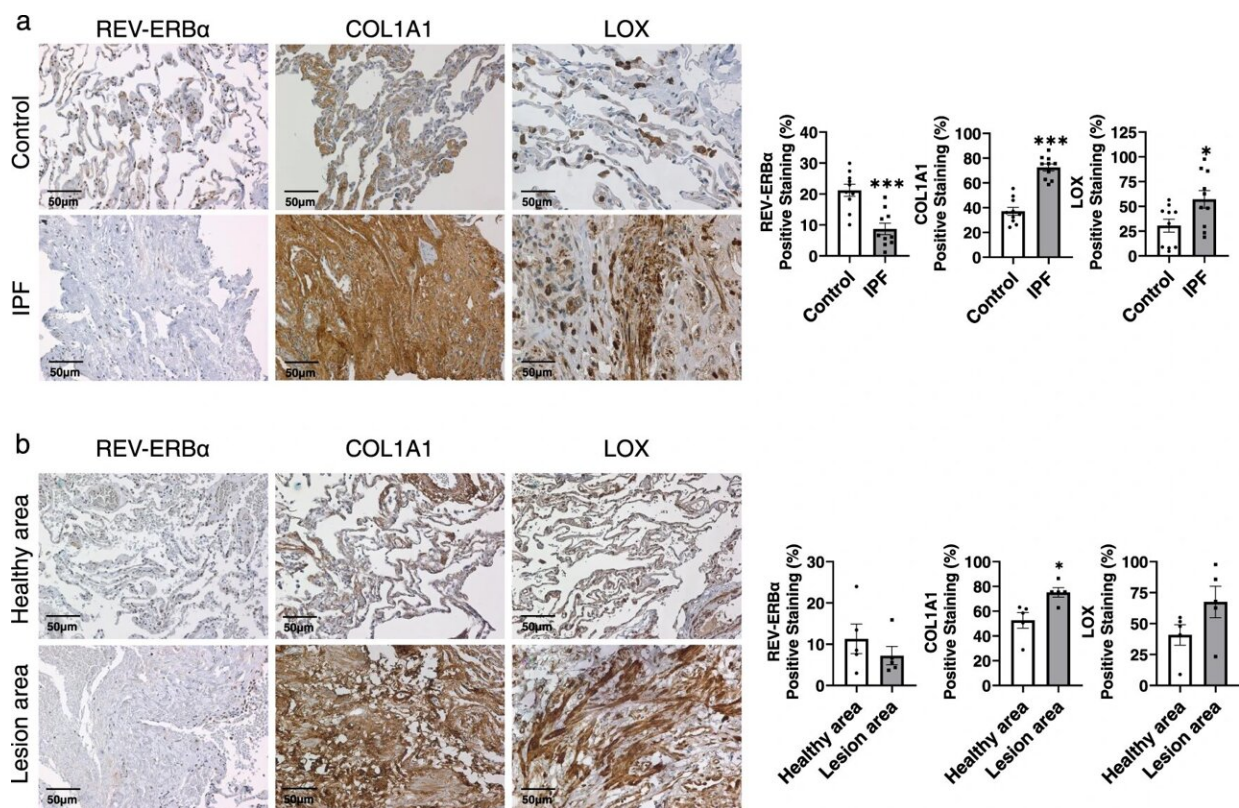


Study reveals mechanism by which a circadian clock molecule leads to lung fibrosis

April 17 2023, by Susanne Pallo



Decreased REV-ERB α protein abundance and increased protein levels of COL1A1 and LOX in IPF lungs compared to healthy control. Healthy control and IPF formalin fixed-paraffin embedded (FFPE) lung samples were purchased from Origene Inc. Healthy controls contained 100% normal lung architecture with 85% alveoli surface area. IPF patient samples contained at least 50% lesion surface area. The protein abundance of REV-ERB α , COL1A1, and LOX were visualized and determined by IHC. **a** The comparisons of protein distribution

and abundance were performed between healthy control and IPF patient ($n = 10$ per group), **b** or between the healthy area and lesion area from the same IPF patient. The images were taken, and the positive stained area was calculated by ImageJ ($n = 5$ per group). Data were shown as mean \pm SEM, unpaired t -test was used for **a** and **b**. Bar size: 50 μm . ($*p$

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