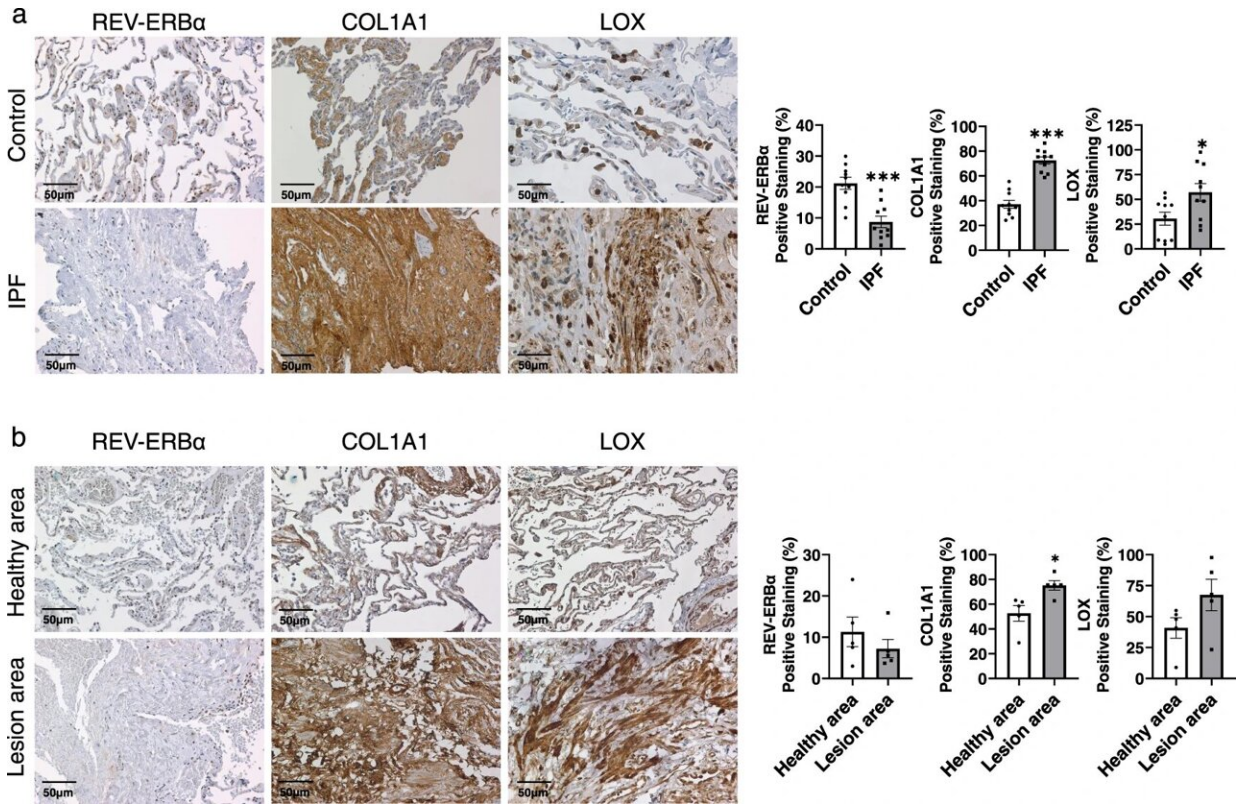
Study reveals mechanism by which a circadian clock molecule leads to lung fibrosis

April 17 2023, by Susanne Pallo



Decreased REV-ERBα 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-ERBα, 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 ± SEM, unpaired t-test was used for **a** and **b**. Bar size: 50 μm. (*p