

研究業績 英文表記

和文	
表題	TGF- β 受容体阻害剤は、成長因子による慢性閉塞性肺線維芽細胞の増殖に影響を及ぼします
著者名	<u>Akira Miyamoto</u> , Chimi Miyamoto, CaiJu Huang, Zhiming Tang, Zhongli Wang, Hua Wu, Minxing Gao, Yichao Wang, Liang Tao, Ivyu Zhao, Delian An, Chi Zhang
所属	神戸国際大学, リハビリテーション学部
英文	
Title	TGF- β receptor inhibitors affect the proliferation of chronic obstructive pulmonary fibroblasts by regulating the expression of growth factors
Author	<u>Akira Miyamoto</u> , Chimi Miyamoto, CaiJu Huang, Zhiming Tang, Zhongli Wang, Hua Wu, Minxing Gao, Yichao Wang, Liang Tao, Ivyu Zhao, Delian An, Chi Zhang
Affiliation	Department of Rehabilitation, Kobe International University, et al.
Abstract	<p>Objective: To analyze the effect of TGF - β receptor inhibitors on the proliferation of COPD fibroblasts by regulating the expression of growth factors.</p> <p>Methods: Twenty-four healthy male SD rats were randomly divided into a normal group, a model group, and a TGF - β receptor inhibitor group, with 8 rats in each group. Every group except the normal one used the cigarette smoke inhalation method to establish the rat COPD model. After the model was established successfully, the TGF - β receptor inhibitor was dissolved in 5ml of normal saline and given to the rats in the TGF - β receptor inhibitor group for atomization inhalation treatment. The normal group rats in the model group and the model group were given the same volume of saline atomization inhalation.</p> <p>Results: Compared with the model group, the bronchociliary structure of the TGF - β receptor inhibitor group was complete, and the infiltration of inflammatory cells in the alveoli was slightly relieved. The level of TGF - β 1 and bFGF in the model group's lung tissue was significantly higher than that of the normal group ($P < 0.05$), and the level of TGF - β 1 and bFGF in the TGF - β receptor inhibitor group's lung tissue was lower than that of the model group ($P < 0.05$). The proliferation activity of fibroblasts in the model group was significantly higher than that of the normal group ($P < 0.05$).</p> <p>Conclusion: TGF - β receptor inhibitors can significantly inhibit the proliferation and promote the apoptosis of fibroblasts in COPD rats. The mechanism may be related to the regulation of TGF - β 1, bFGF, and other growth factors.</p>
keyword	TGF - β receptor inhibitor, growth factor, COPD, fibroblast, proliferation.

※本データの英文表記は実際の論文上の表記とは異なります。