

عنوان مقاله:

ANGPTLF suppresses the profibrogenic functions of atrial fibroblasts induced by angiotensin II by up-regulating PPARy

محل انتشار:

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نویسندگان:

Xi Zhu - Department of Cardiology, Shanghai Pudong New Area Zhoupu Hospital (Shanghai Health Medical College Affiliated Zhoupu Hospital) shanghai אודא, China

Xiaogang Zhang - Department of Cardiology, Shanghai Pudong New Area Zhoupu Hospital (Shanghai Health Medical College Affiliated Zhoupu Hospital) shanghai ראודוג, China

Wei Gu - Department of Cardiology, Shanghai Pudong New Area Zhoupu Hospital (Shanghai Health Medical College Affiliated Zhoupu Hospital) shanghai ۲۰۱۳۱۸, China

Hanjun Zhao - Department of Cardiology, Shanghai Pudong New Area Zhoupu Hospital (Shanghai Health Medical College Affiliated Zhoupu Hospital) shanghai ראוודיא, China

Shuwen Hao - Department of Cardiology, Shanghai Pudong New Area Zhoupu Hospital (Shanghai Health Medical College Affiliated Zhoupu Hospital) shanghai ראוויזוא, China

Zhongping Ning - Department of Cardiology, Shanghai Pudong New Area Zhoupu Hospital (Shanghai Health Medical .College Affiliated Zhoupu Hospital) shanghai ריוויא, ChinaEmail: ningzpsh@ואר.com Tel: +אא-יאר אויאראין אויאר

خلاصه مقاله:

Objective(s): The present study's objective was to investigate the association between angiopoietin-like F (ANGPTLF) levels and the prognosis of Atrial fibrillation (AF), the causative effect in angiotensin II- (Ang II) induced AF, and its underlying mechanisms.Materials and Methods: Baseline serum ANGPTL-F concentrations were measured in 1^w - patients with AF. Rat atrial fibroblasts were isolated from 1F-day-old SD rats and transfected with Ang II treatment. Transfected cells were divided into: The control group, ANGPTLF-OE group, Ang II group, and Ang II+ANGPTLF-OE group. Transfected cells were used to analyze fibroblasts' proliferation, migration, and collagen production at the cellular level. RT-qPCR and western blotting evaluated the ANGPTLF-targeted gene and PPARγ-Akt pathway.Results: In patients with AF, serum ANGPTLF concentrations decreased significantly compared with the healthy group. ANGPTLF mRNA and protein expressions were significantly down-regulated in Ang II-induced cardiac fibroblasts. ANGPTLF overexpression potentially attenuated Ang II-induced fibroblast proliferation, migration, and collagen production: Our experimental data speculate that ANGPTLF is a key factor in regulating AF progression. Therefore, increasing ANGPTLF expression could be an effective strategy for AF treatment.v

کلمات کلیدی:

Atrial fibrillation, Atrial fibrosis, Lipoprotein lipase, Peroxisome proliferator-activated receptor-y, Triglyceride

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