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Preferential Myofibroblast Differentiation of Cardiac Mesenchymal Progenitor Cells in Presence of Atrial Fibrillation.

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17 **Running title:** CMPC involvement in atrial fibrillation.

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19 **Abbreviations:** AF=atrial fibrillation; TGF- β 1=transforming growth factor- β 1; CMPC=cardiac mesenchymal progenitor
20 cells; MFB=myofibroblast; α -SMA= α -smooth muscle actin; ECM=extracellular matrix; CTR=controls in sinus rhythm;
21 BMI=body mass index; α -SA= α -sarcomeric actin; HLA=human leucocyte antigen; FACS=flow cytometry;
22 CPD=cumulative population doubling; NCX1=sodium-calcium exchanger.

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