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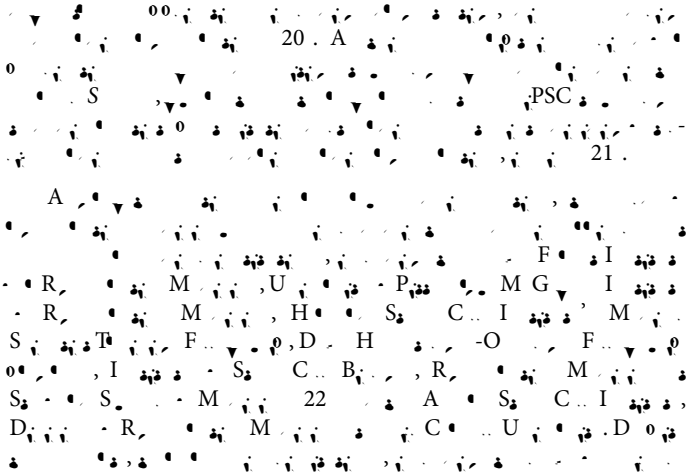
Advances in Cardiovascular Regenerative Medicine



K ... (ESC)- ... (LAD) ... ESC- ... R-294 43 . R-294 ... MSC (E MSC). ... RNA E MSC- ... R-21, ... E MSC ... 44 . I ... R-210 ... 45 .

I ... J ... MSC E ... (J-MSC-E) ... E -... 46 . F ... MSC-E ... RNA-181 ... TNF ... IL-6 ... IL-10 47 . MSC ... 48 . ... 49-50 .

Anti-in ammatory e ects of MSCs in cardiac tissue

I ... MSC ... 48-51 . C ... MSC ... 52 . ... M2, ... E2- ... CD8(+) T ... T ... (T) 52 . A ... CD206 (...) ... MSC ... 53 . ... CD206, ... IL-10 ... F ... MSC ... IL12 TNF- ... IL6, ... 53 . I ... MSC N ... (NO). N ... NO ... T- ... T- ... MSC ... NO ... T- ... 54-56 . F ... MSC ... NOS/ NOS3 ... MI 57 , ... NOS ... MSC 58 .

iPSC therapy for cardiac regeneration

P ... PSC .

U ... (ESC), PSC ... 59 . C ... MI ... (PSC-CM) ... MSC- ... (MSC-PA) 60 . E ... MSC-PA ... PSC-CM , ... N ... PSC-CM ... CM- ... MSC-PA ... A ... -MI ... 60 . ... (2020) ... CRISPR/ C 9 ... MHC I ... 2 ... (B2M), ... PSC- ... MSC (PSC- ... T 0.233T 0. 1 ...)T -0.066 ... .07 ... (U R4)T -0.0

A FDA D FDA N 1,200 ( ). A 2021 383 1, 685 2 152 3 G 50% O D I O 8% 2025.

COVID-19 and Long-COVID (AKA Long Hauler

79, 80-81, 82, 83, 84. 80%

40. Wu Q, Wang J, Tan WLW, Jiang Y, Wang S, et al. (2020) Extracellular vesicles from human embryonic stem cell-derived cardiovascular progenitor cells promote cardiac infarct healing through reducing cardiomyocyte death and promoting angiogenesis. Cell Death Dis 11: 1-16.

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