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Detail Introduction :

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“ ”

2.5 20 40



????? 100 100

FDA

Finasteride 1992

Minoxidil 1996

???????DP?Scientific Advances

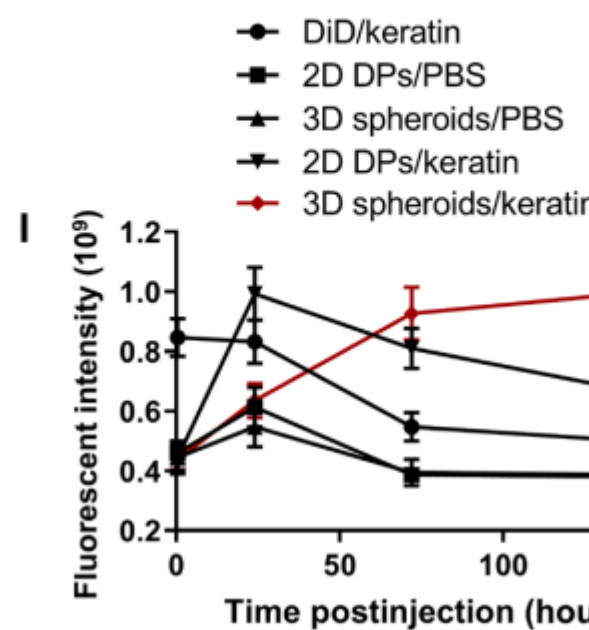
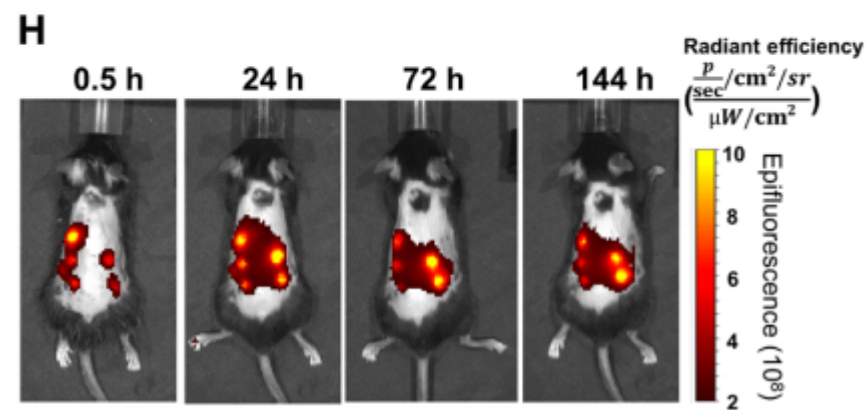
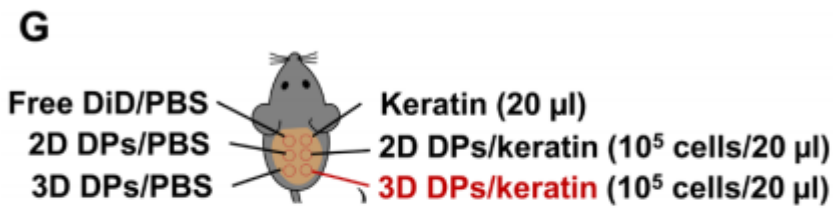
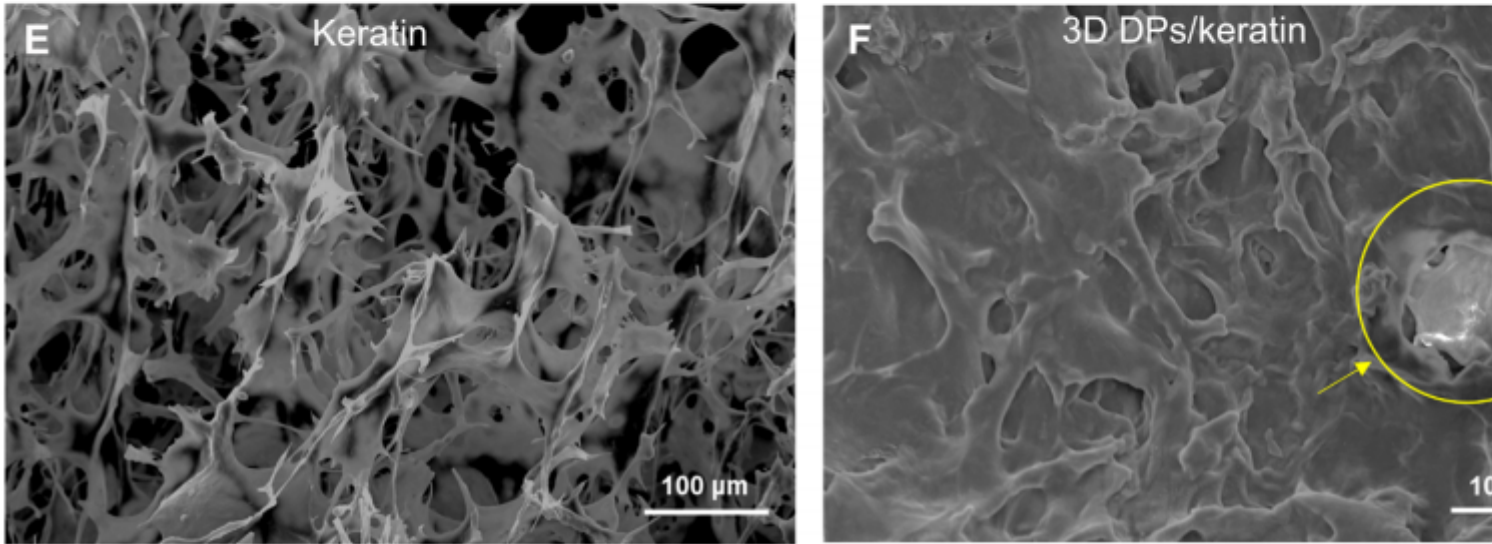
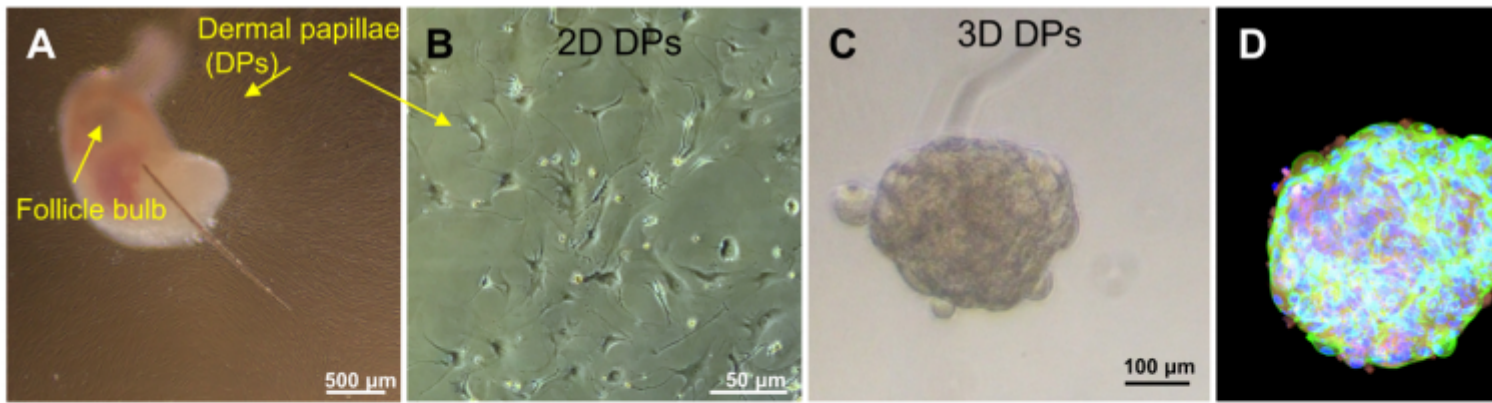
CELL BIOLOGY

# Dermal exosomes containing miR-218-5p promote h regeneration by regulating $\beta$ -catenin signaling

Shiqi Hu<sup>1,2</sup>, Zhenhua Li<sup>1,2</sup>, Halle Lutz<sup>1,2</sup>, Ke Huang<sup>1</sup>, Teng Su<sup>1,2</sup>, Jhon Cores<sup>1</sup>,  
Phuong-Uyen Cao Dinh<sup>1</sup>, Ke Cheng<sup>1,2\*</sup>

??????DP??DP?

DP?? 1 ~~AB/C~~ DP?? ~~DD~~  $\beta$ -catenin DP?? 33 1 G/H/I DP

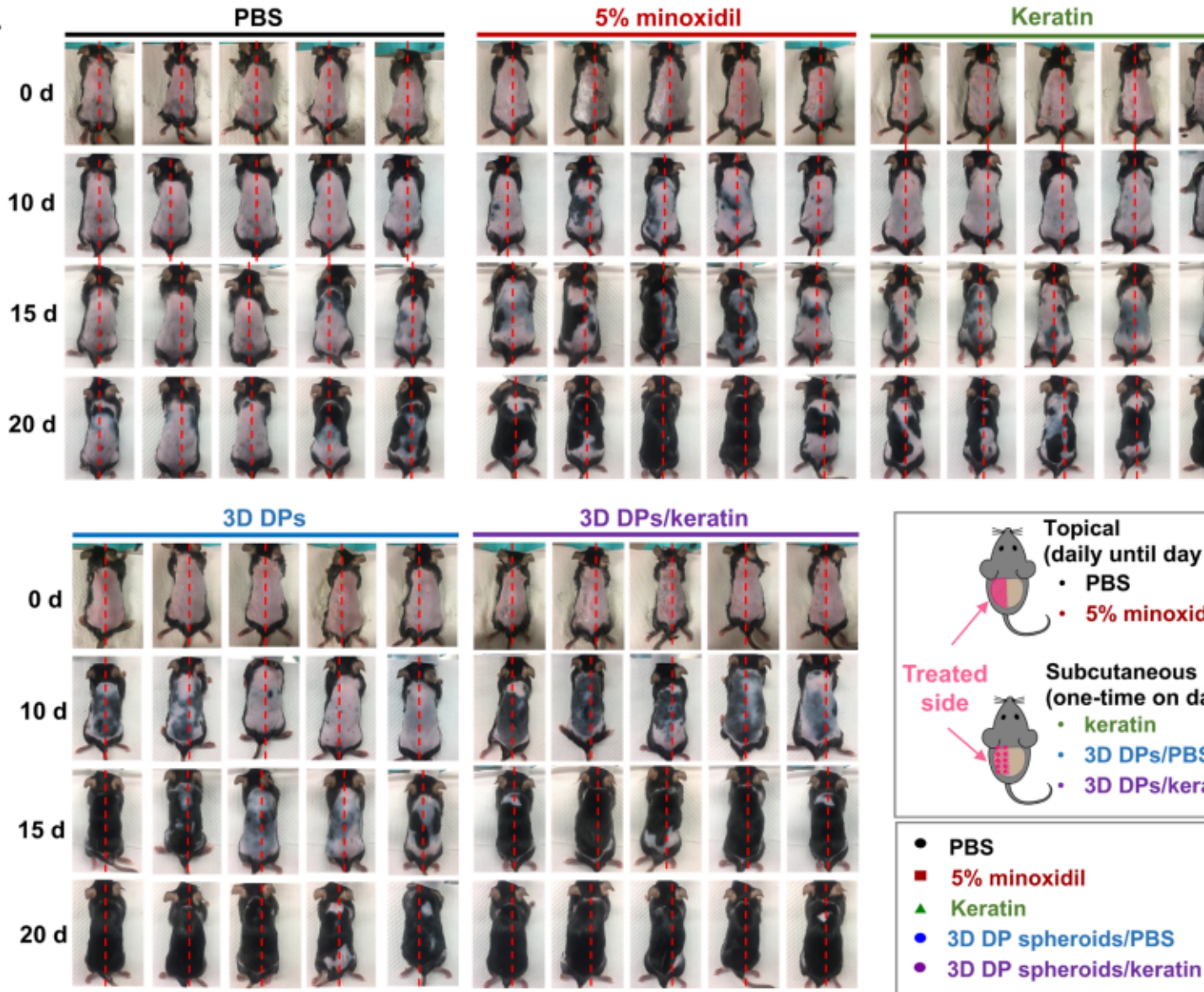


1. 2D 3D

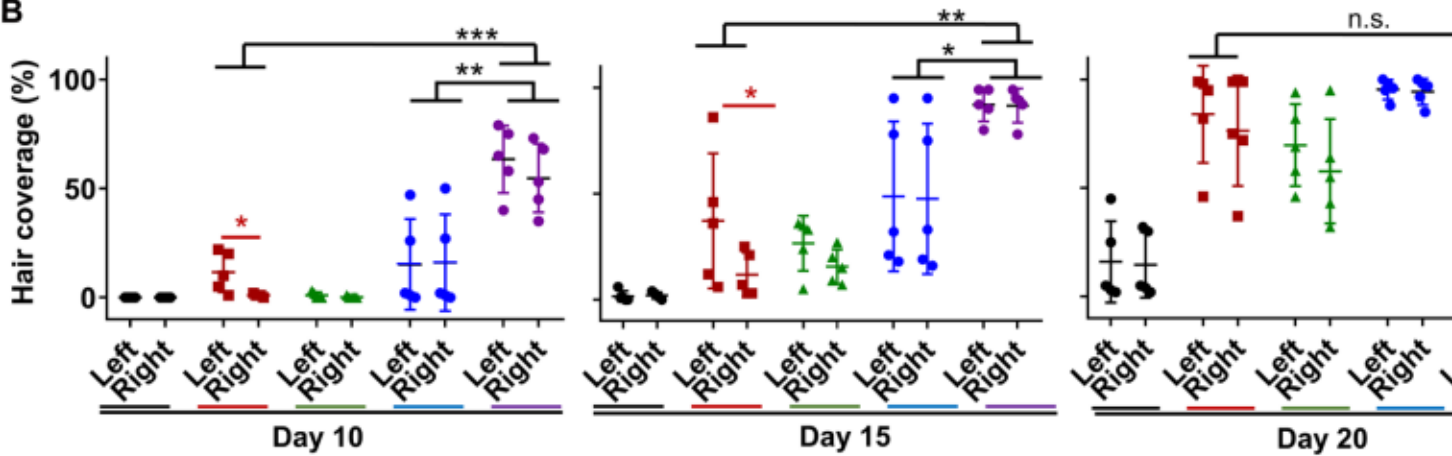
DP??3D DP?? 3D DP 5% 1QD ( ) ( ) β-catenin CD133 Ki67  
 2????????????????-catenin?CD133?????Ki67??DP????????????????????  
 ??DP????????????????????????????????3D??DP????????????????????  
 ?????????????????DP????????????????????????????????????



**A**



**B**



?. ???????????

????????????????????20????????????????-catenin?Erk1/2? pERK1/2 ?SFRP2?GAPDH????????( 4 A/B? ?-cate

Erk1/2

SFRP?-catenin?-catenin

3D?-catenin

5?-catenin 4 C/E

3E?-cateninSFRP2

D



