

FIG. 1A

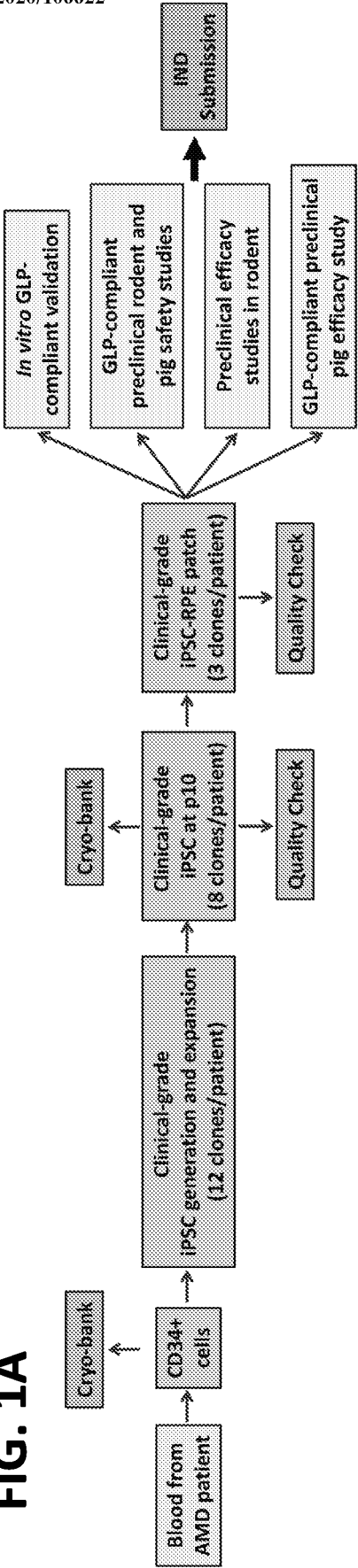


FIG. 1B

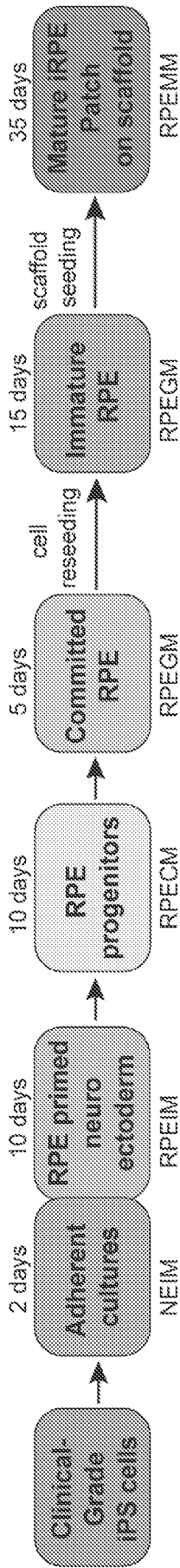


FIG. 1D

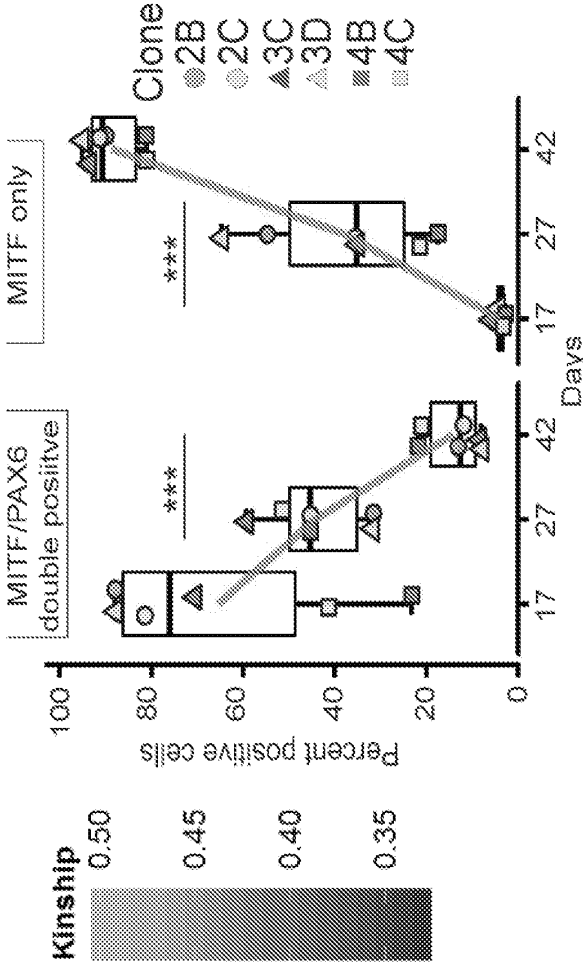


FIG. 1C

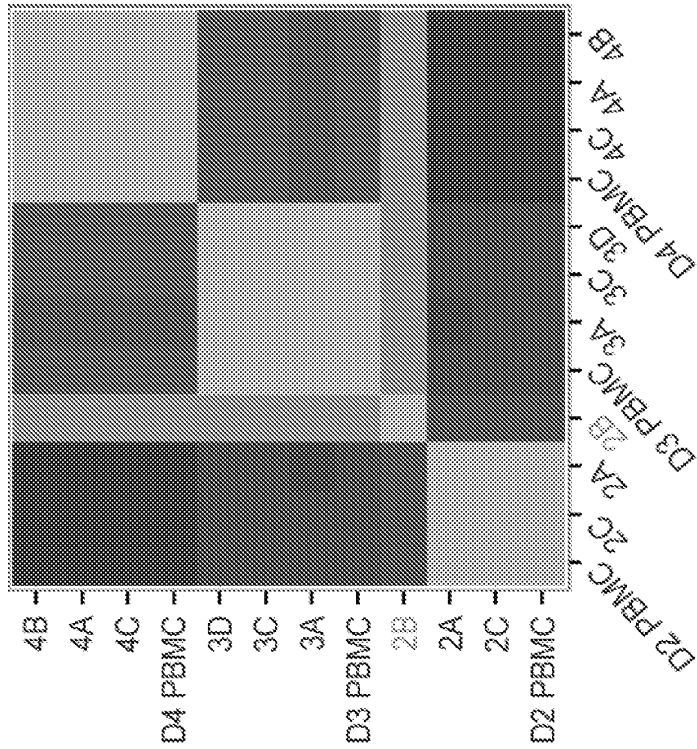
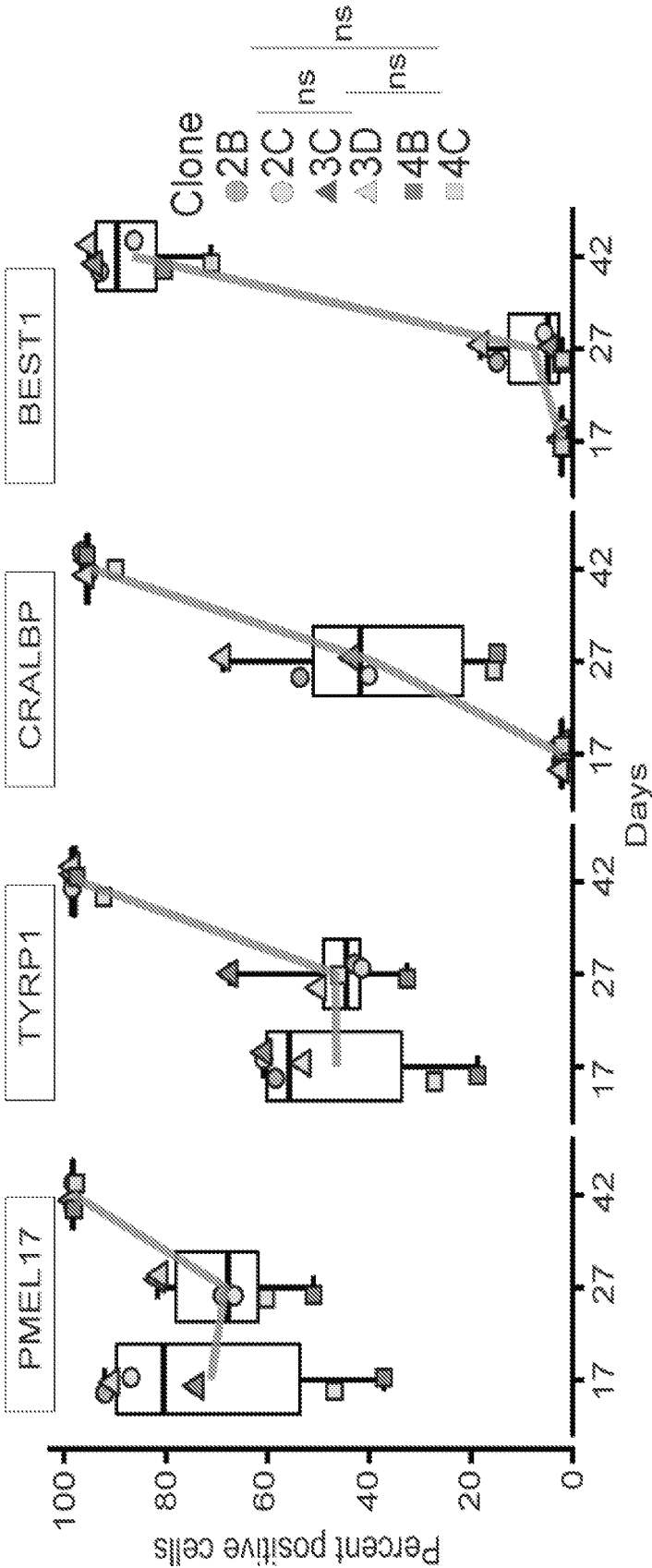
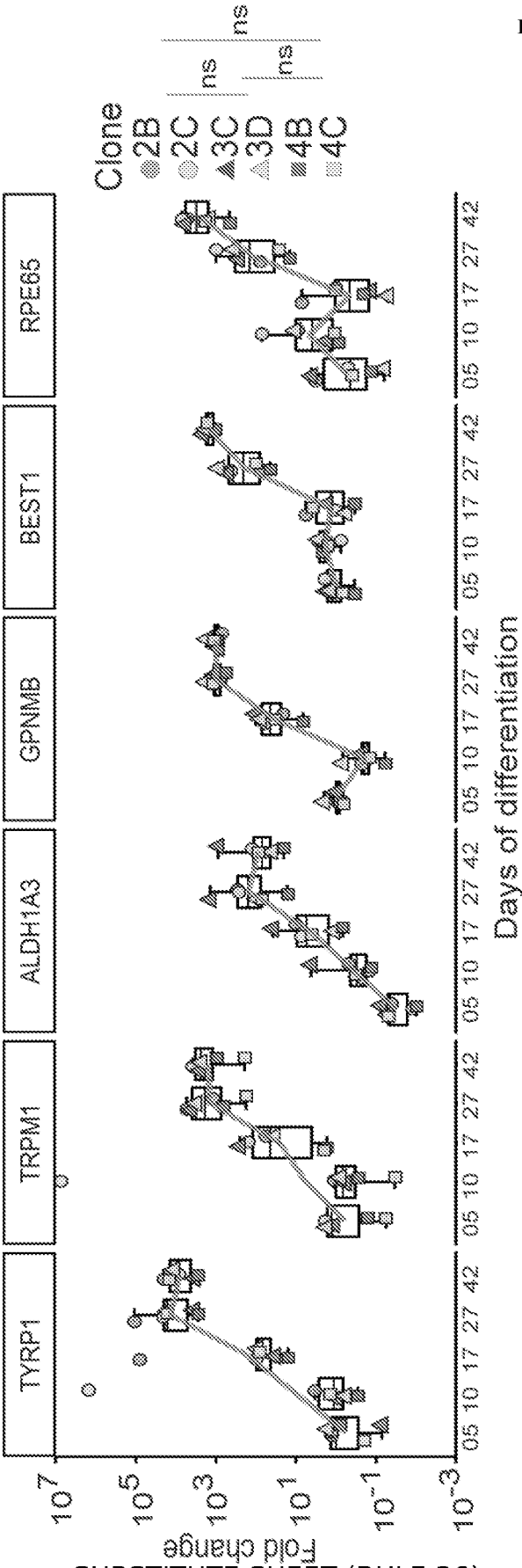


FIG. 1E



SUBSTITUTE SHEET (RULE 26)

FIG. 1F



SUBSTITUTE SHEET (RULE 26)

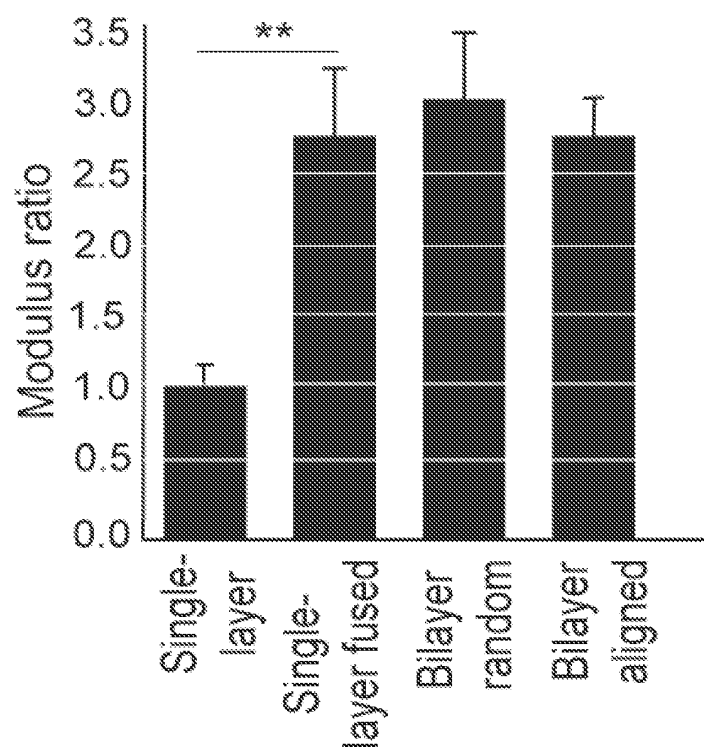
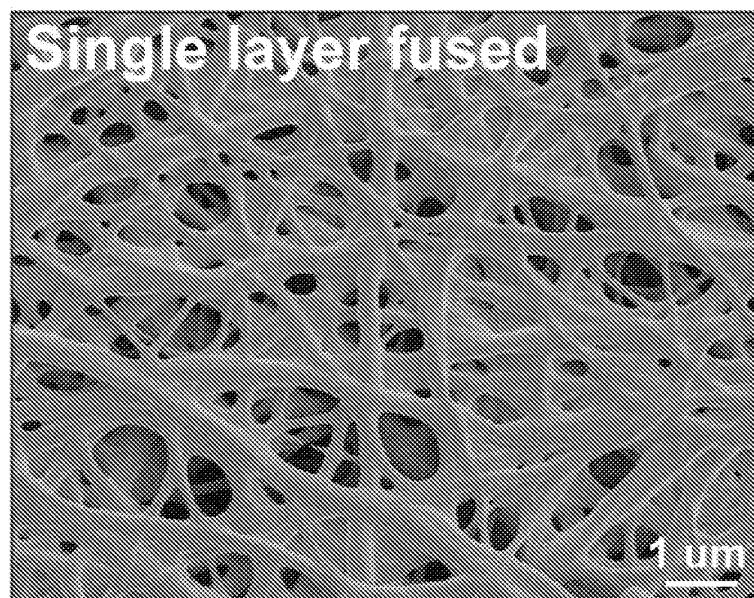
FIG. 2A**FIG. 2B**

FIG. 2C
iRPE on PLGA scaffold

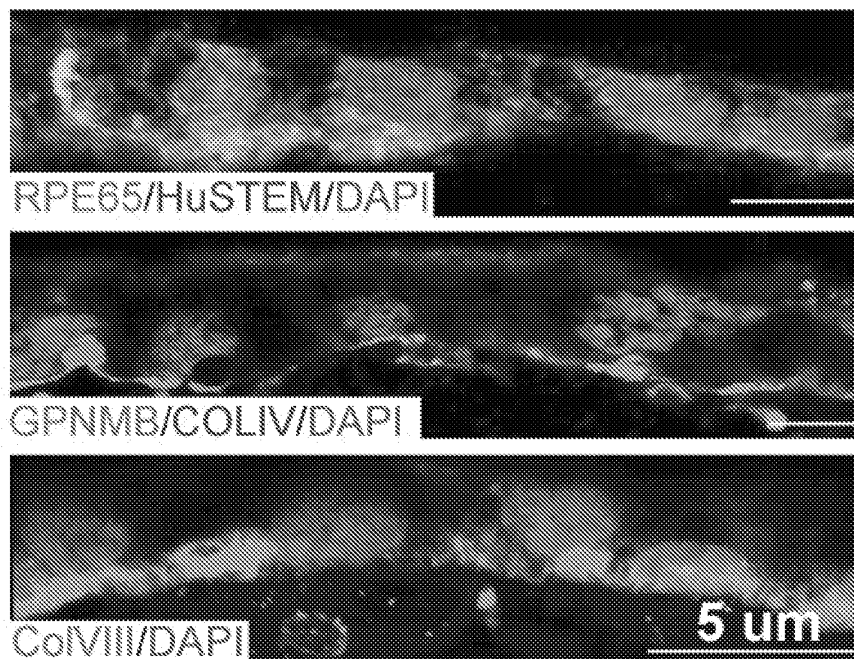
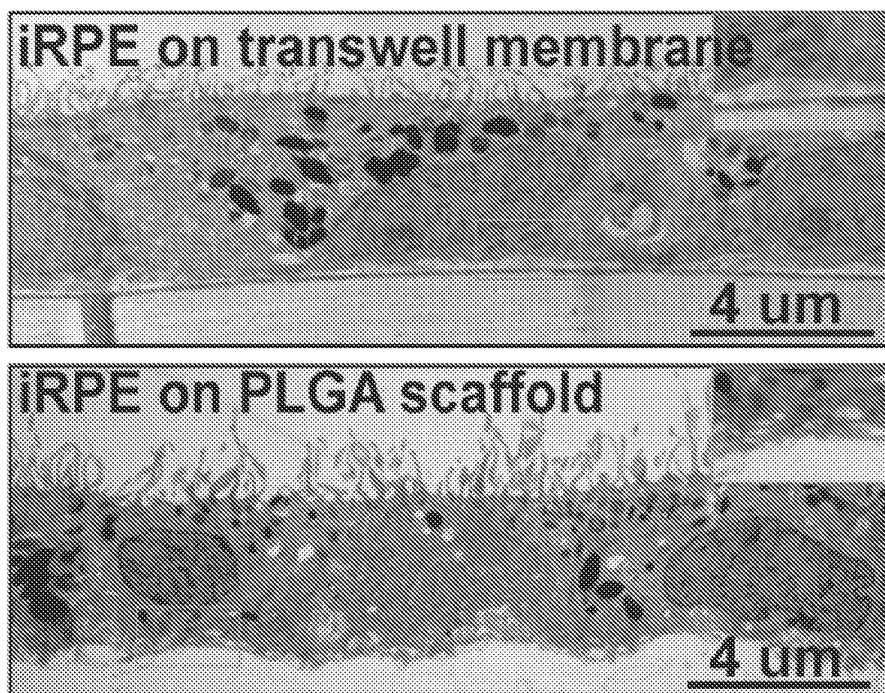
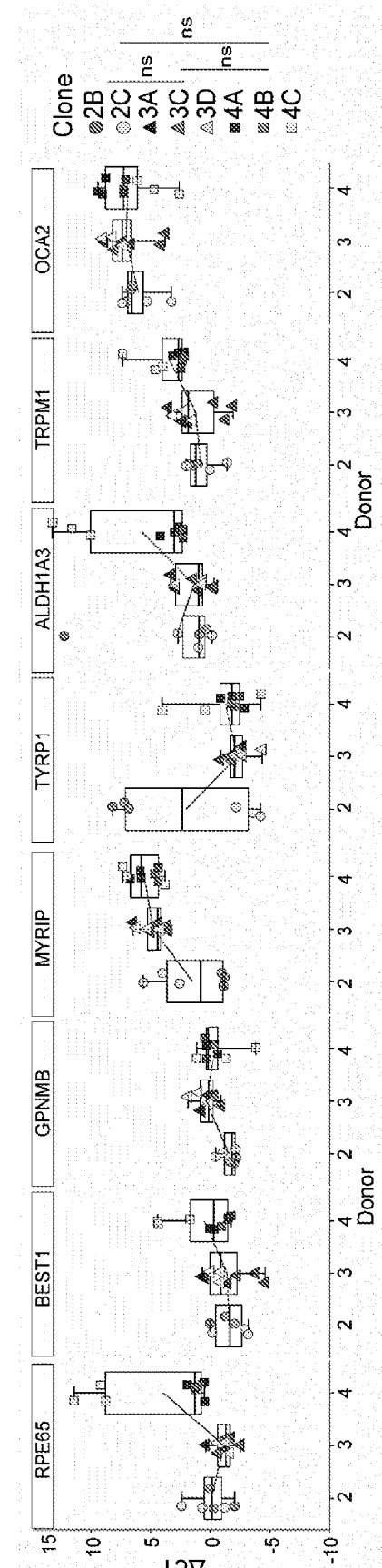


FIG. 2D



SUBSTITUTE SHEET (RULE 26)

FIG. 2E



SUBSTITUTE SHEET (RULE 26)

FIG. 2G

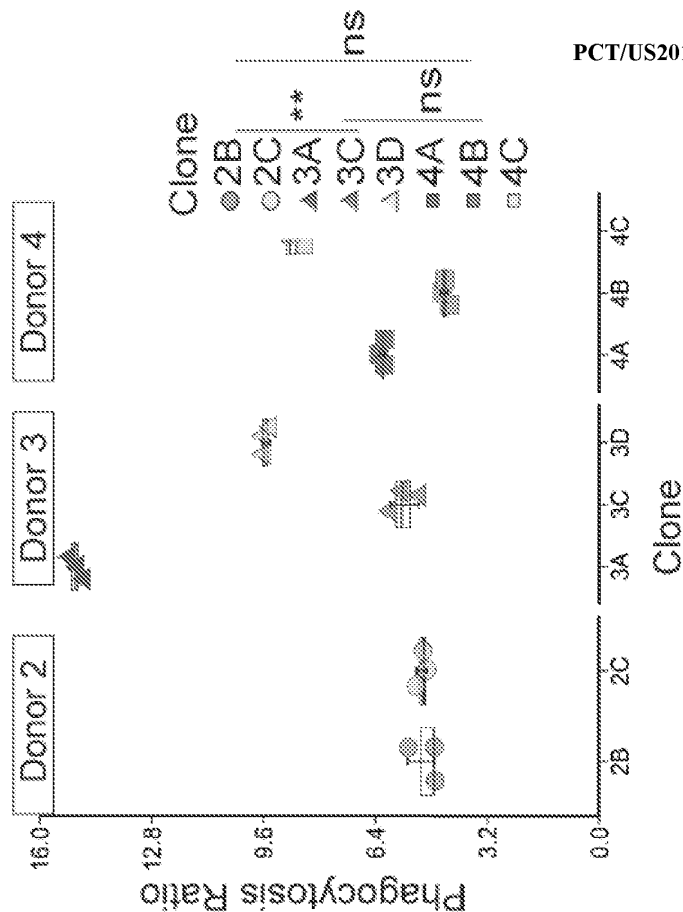


FIG. 2F

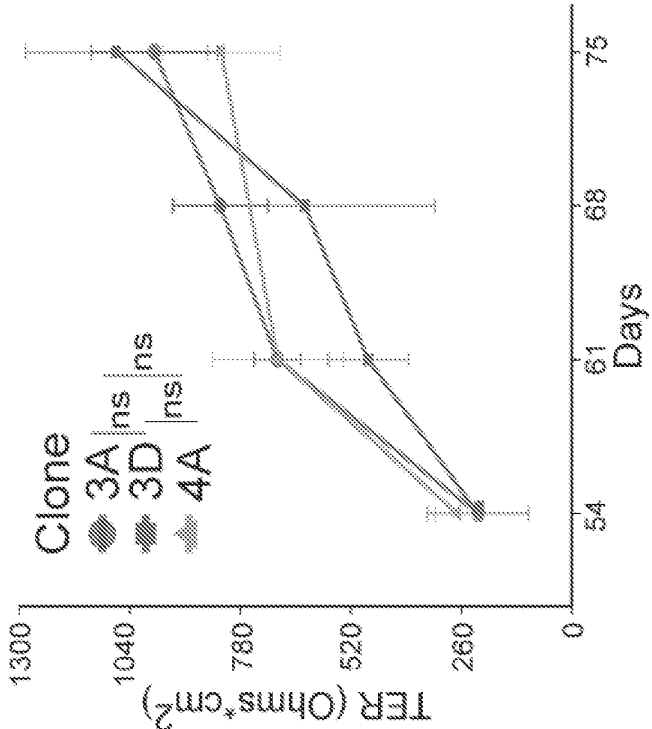


FIG. 2H

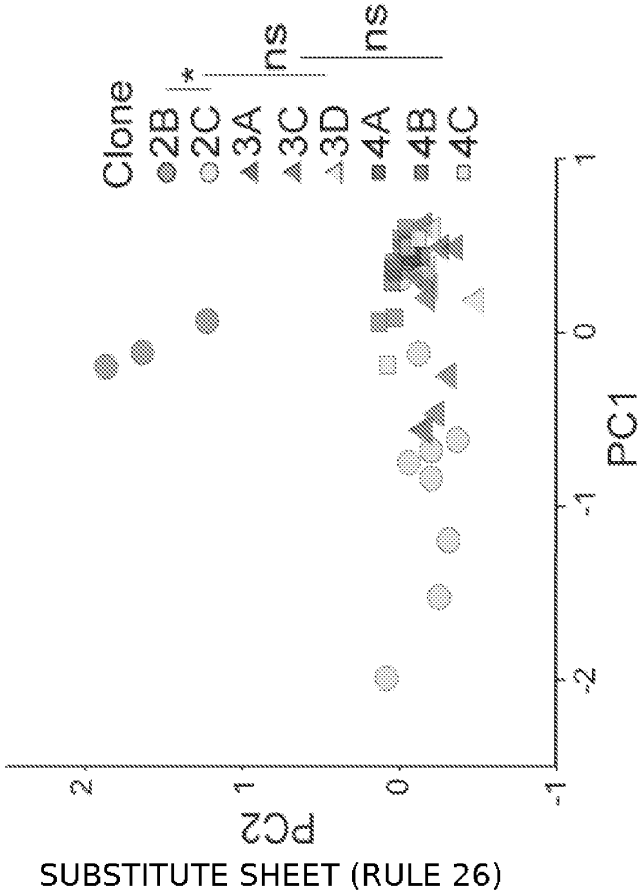


FIG. 2I

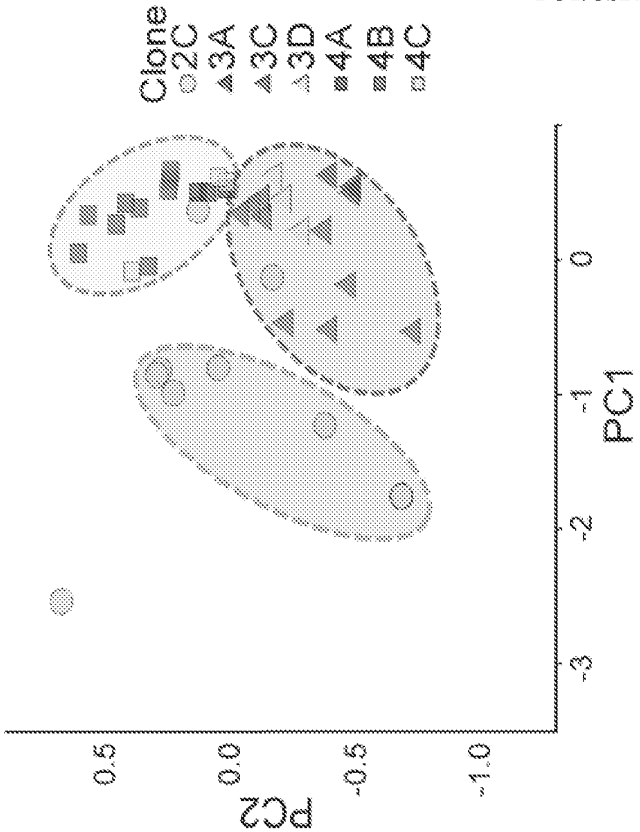


FIG. 3B

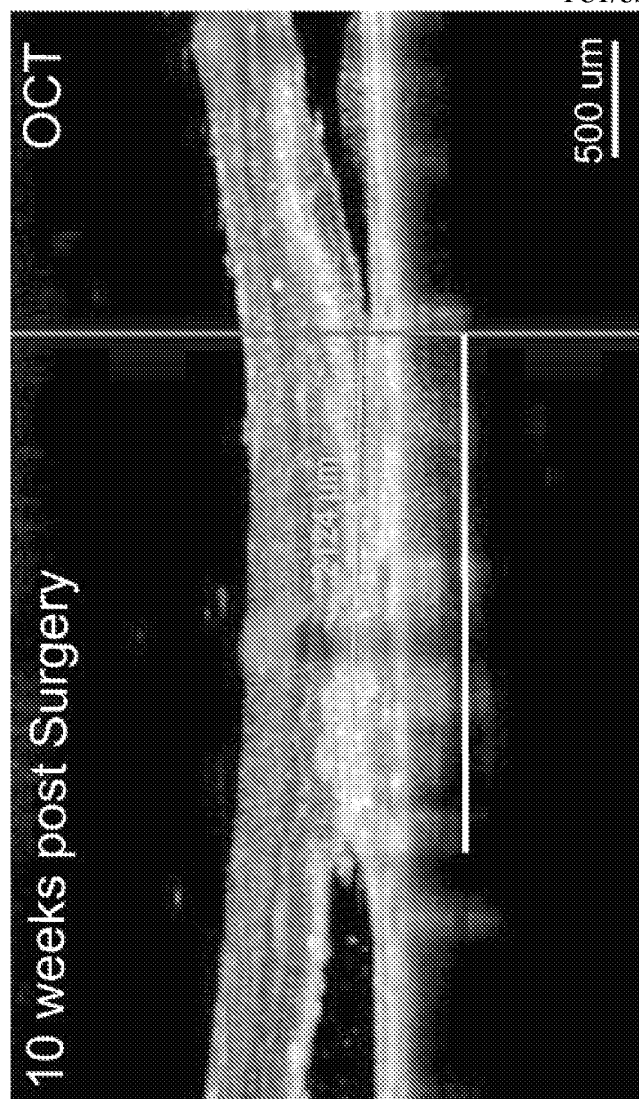
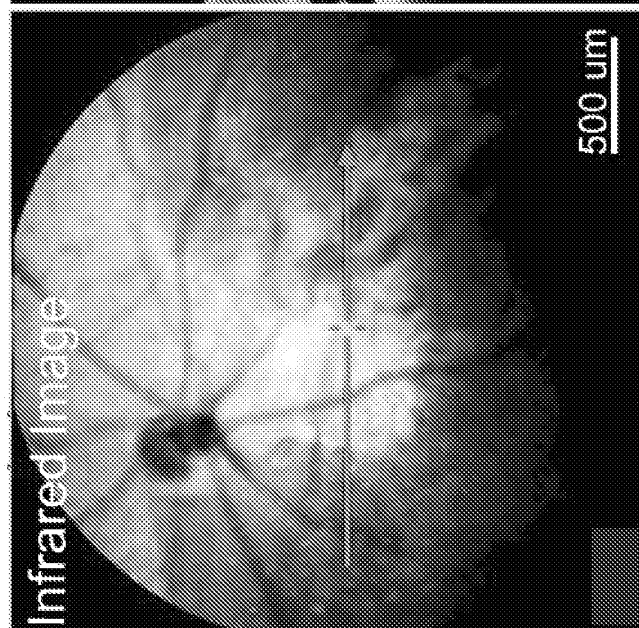


FIG. 3A



SUBSTITUTE SHEET (RULE 26)

FIG. 3C

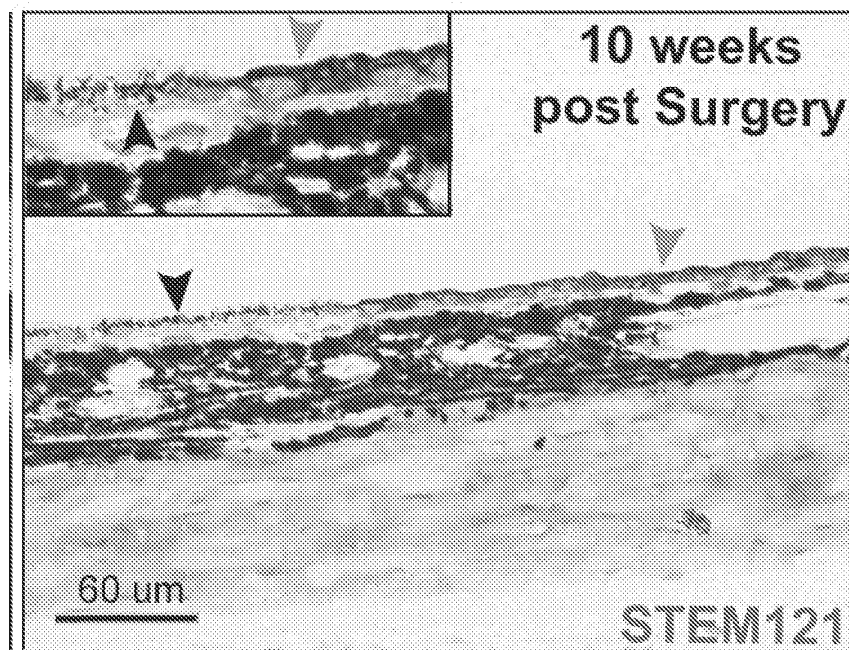
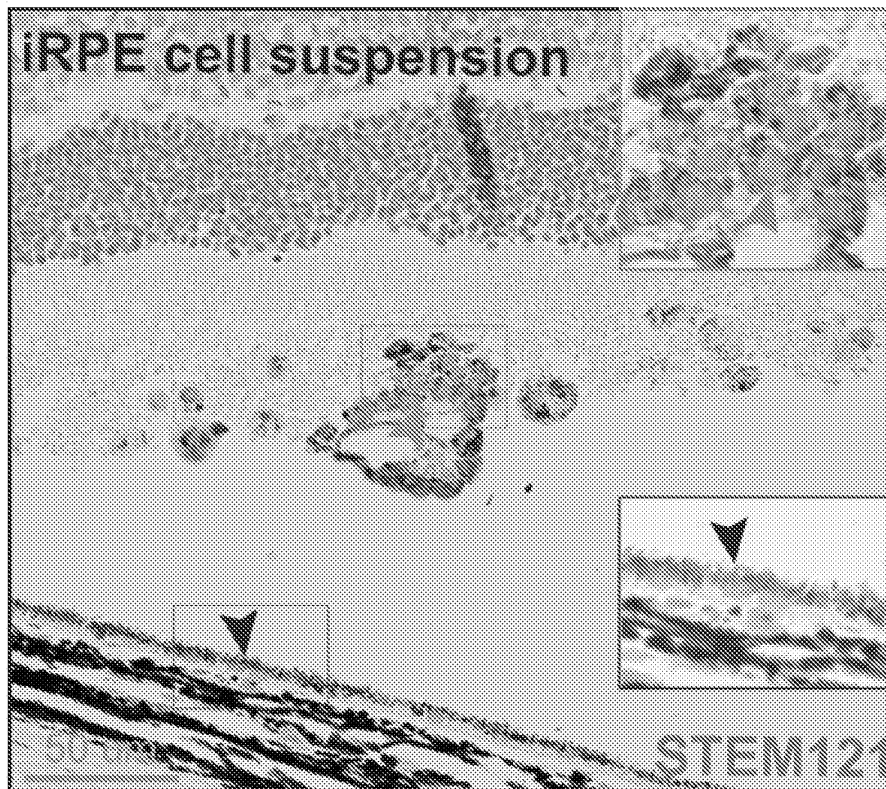


FIG. 3D



SUBSTITUTE SHEET (RULE 26)

FIG. 3F

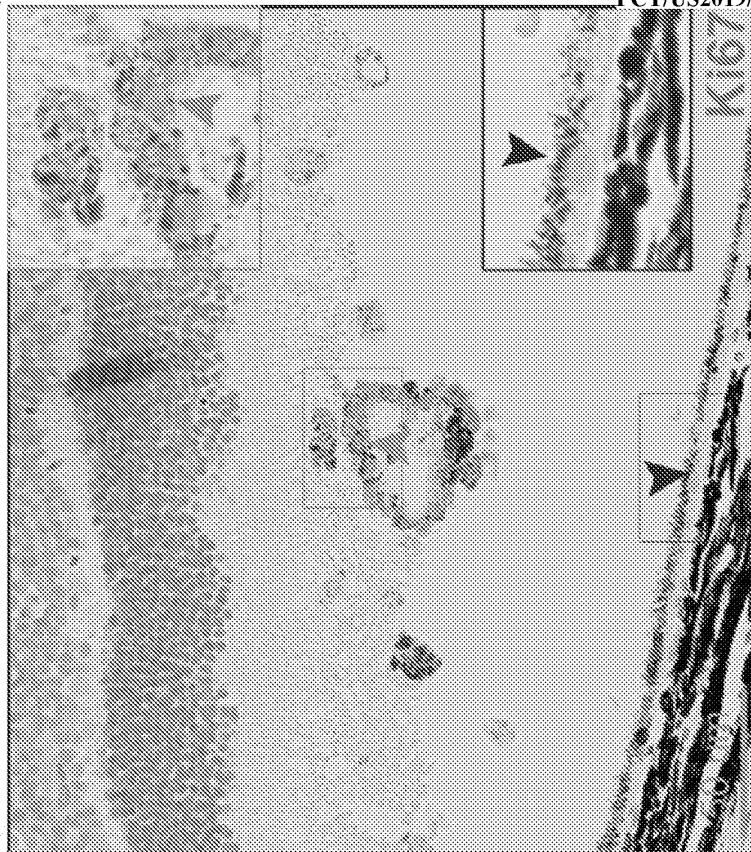
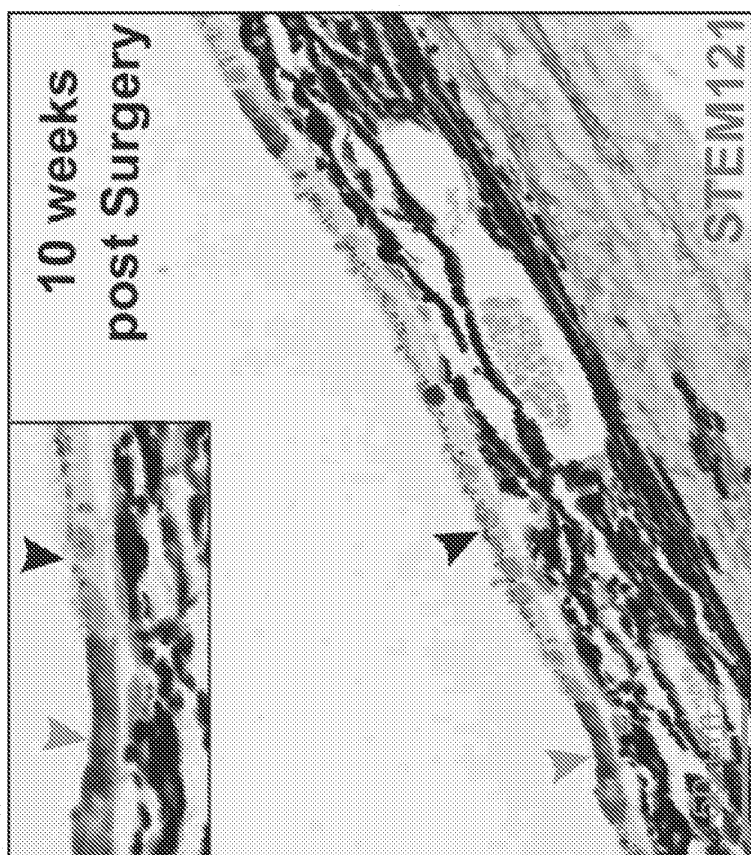


FIG. 3E



SUBSTITUTE SHEET (RULE 26)

FIG. 3G

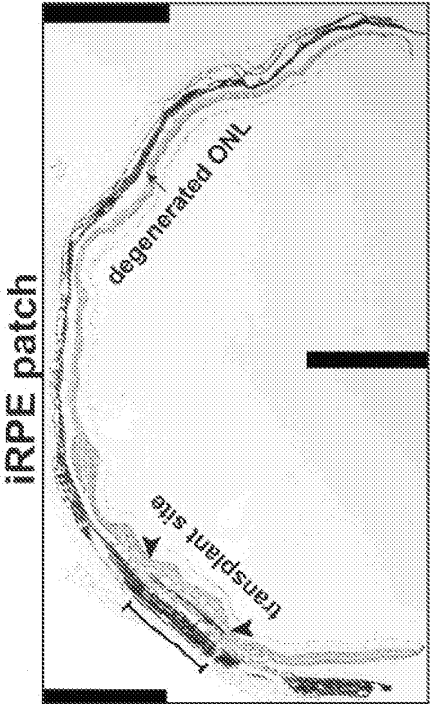


FIG. 3H

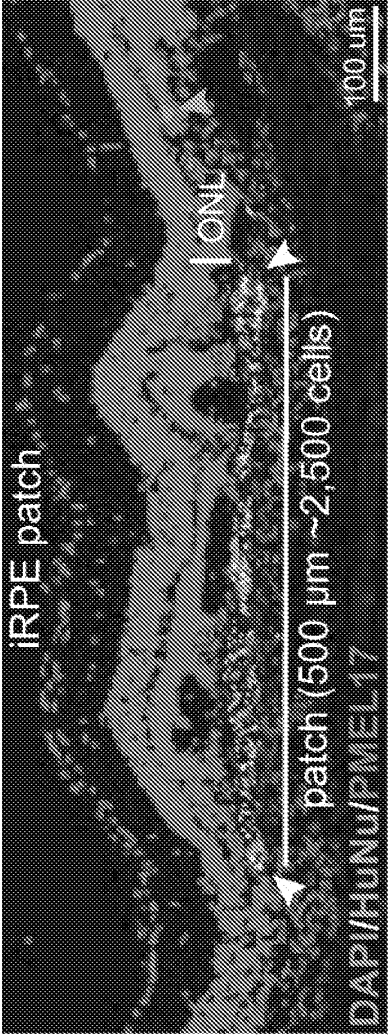


FIG. 3I

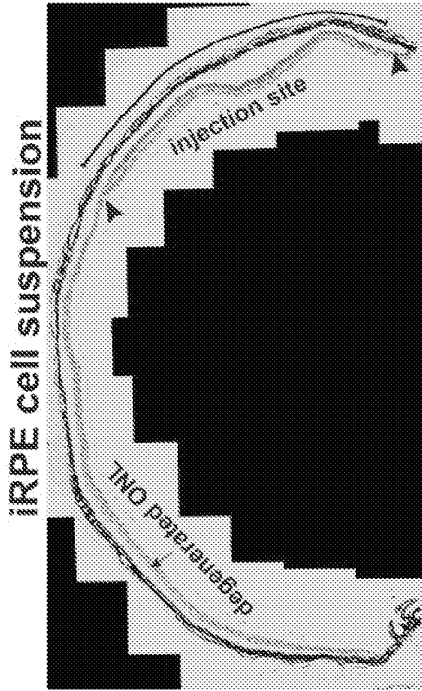


FIG. 3J

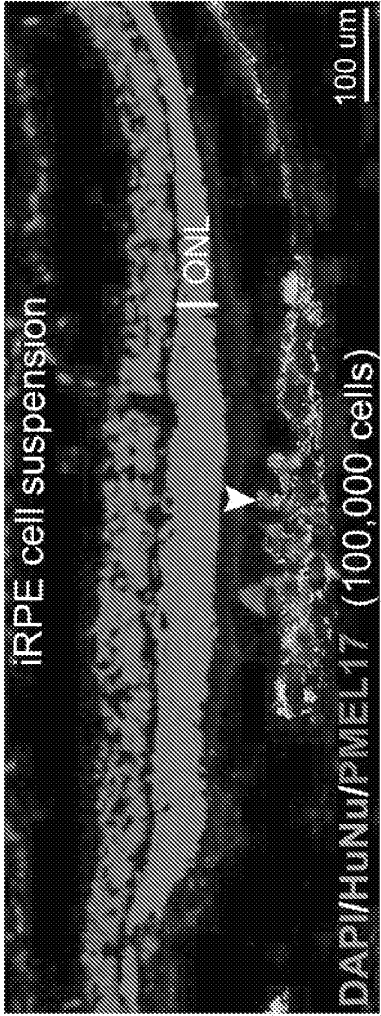


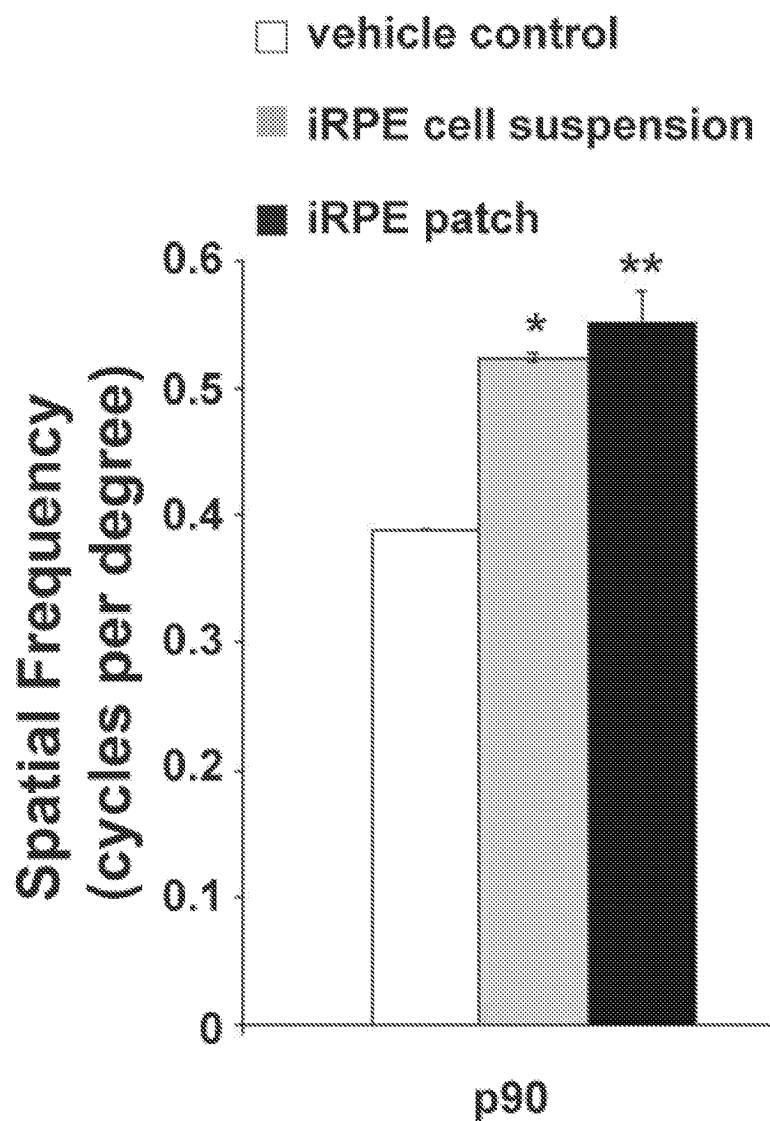
FIG. 3K

FIG. 4A

Micropulse laser ablates pig RPE

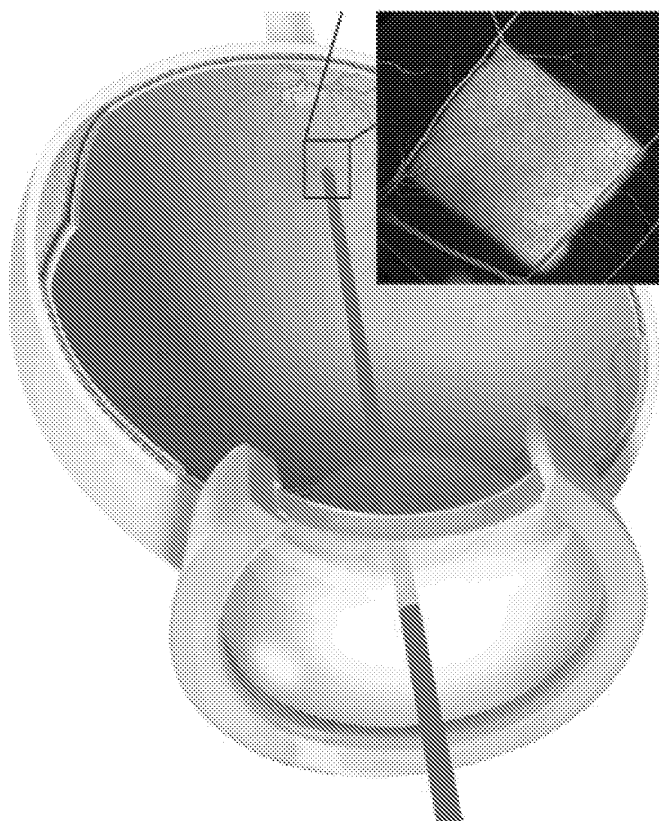
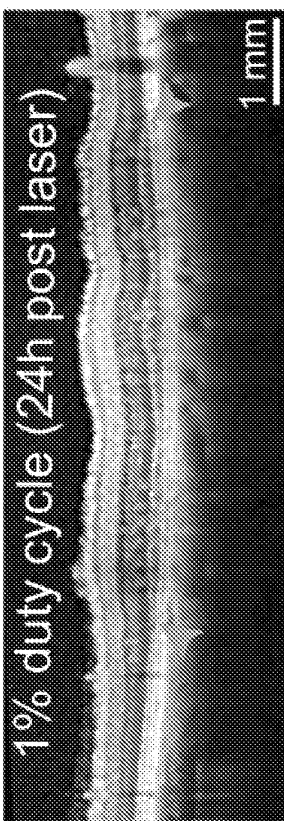
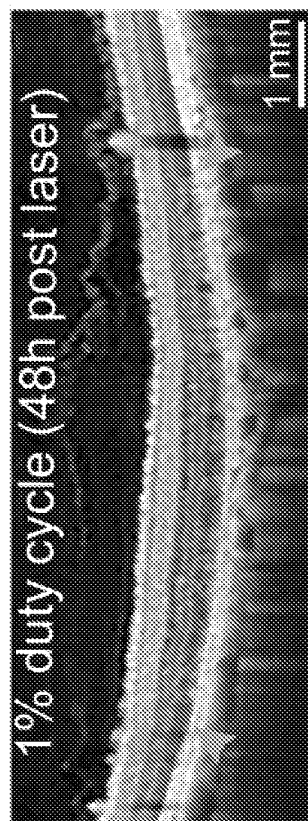
**FIG. 4B****FIG. 4C**

FIG. 4D

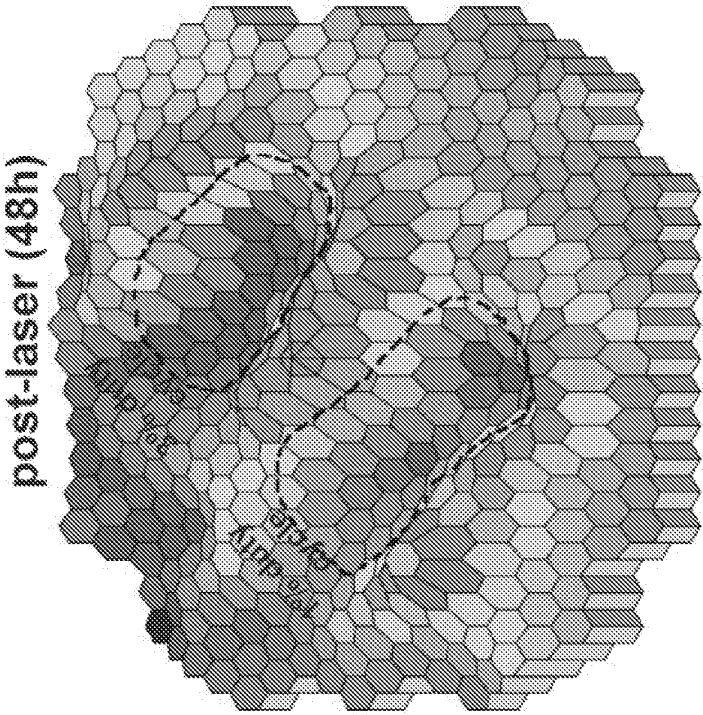


FIG. 4E

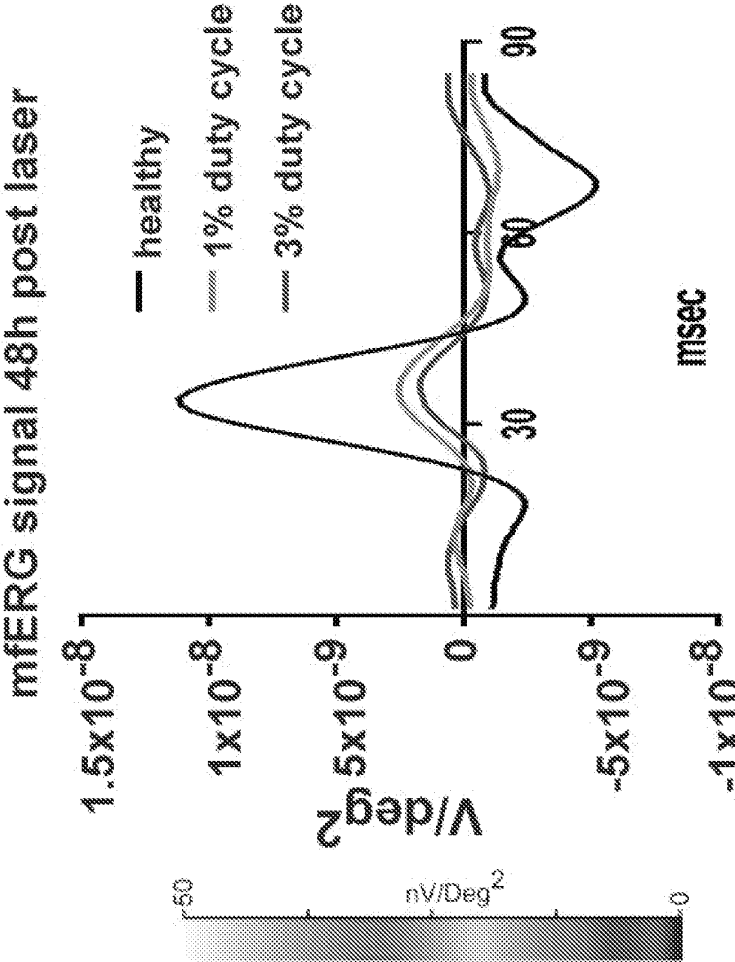
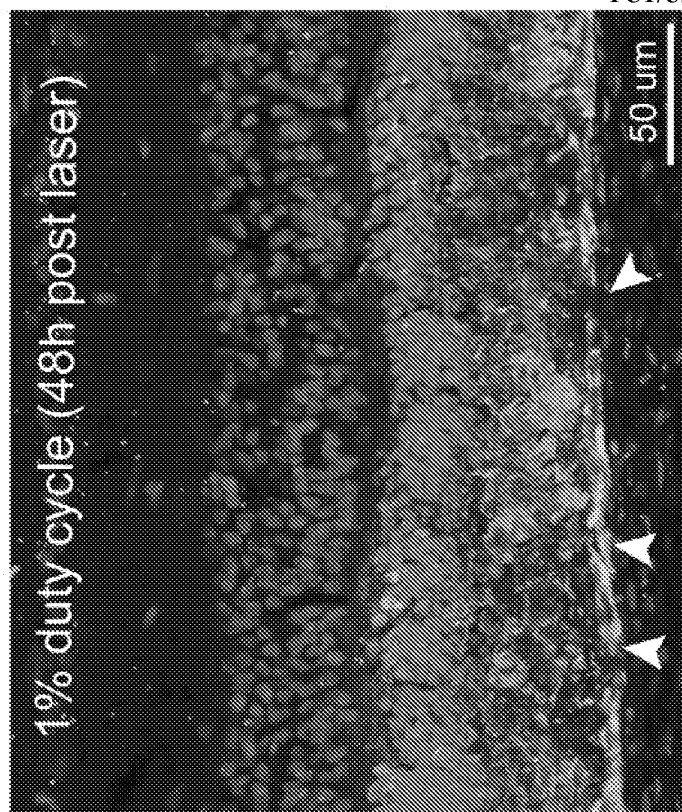
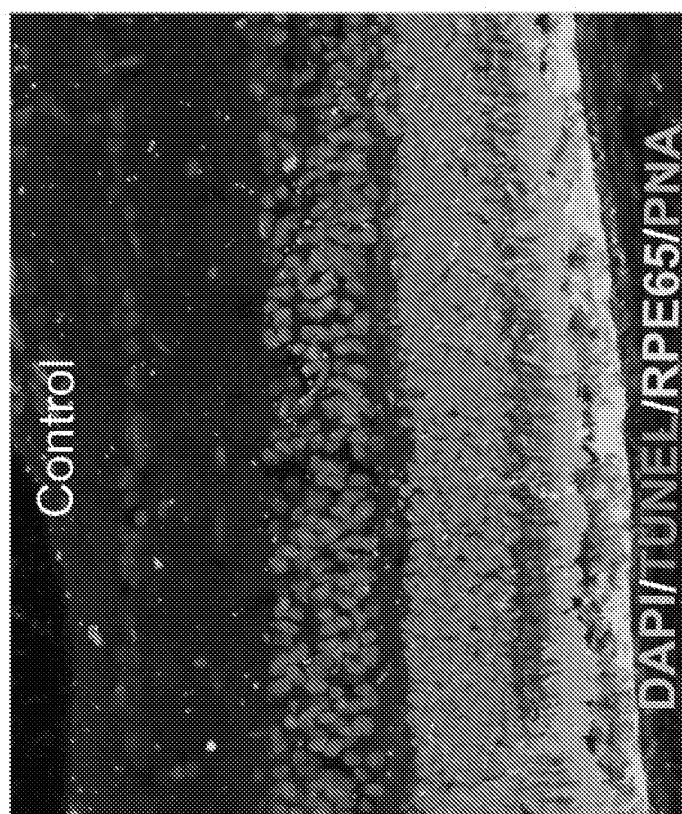


FIG. 4G**FIG. 4F**

SUBSTITUTE SHEET (RULE 26)

FIG. 4I

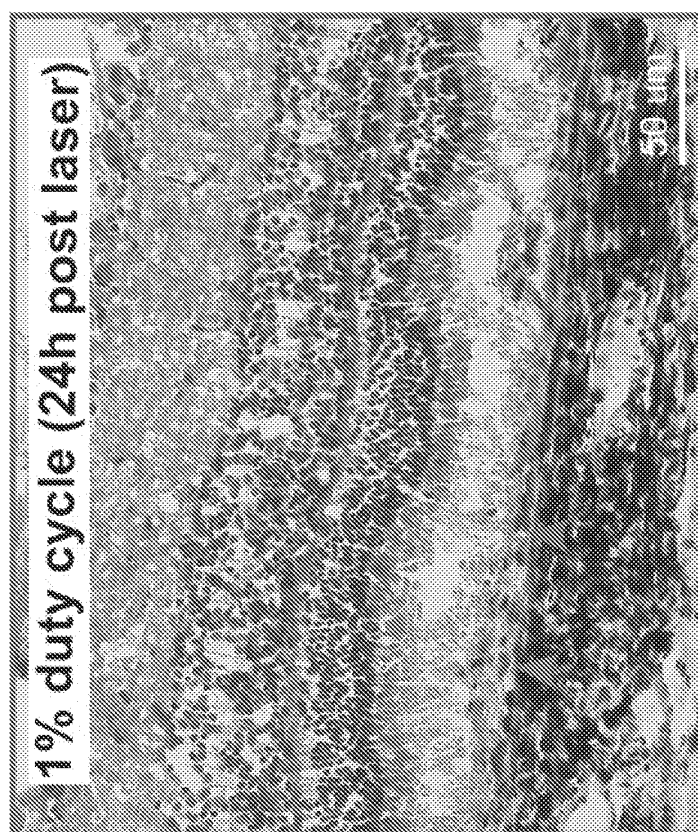
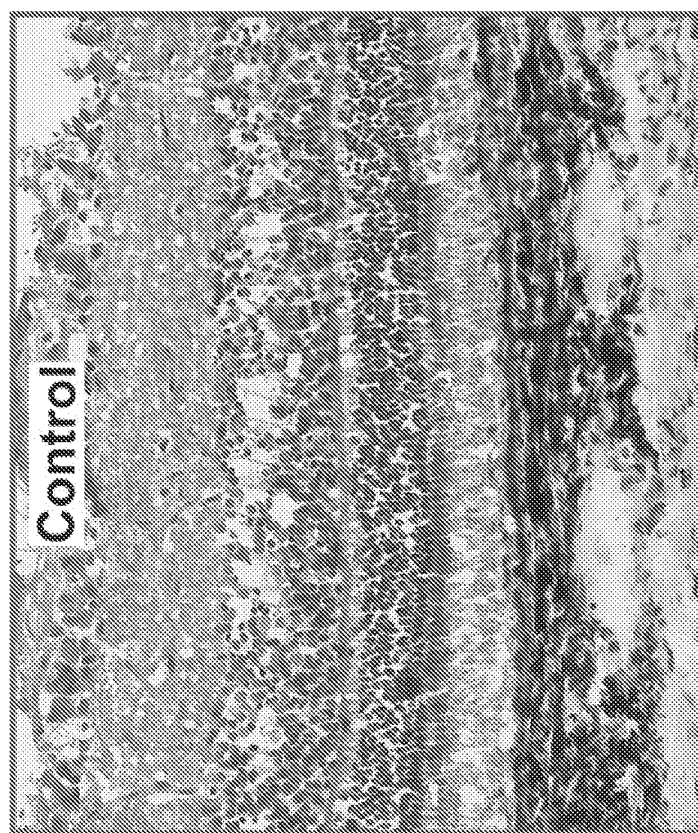


FIG. 4H



SUBSTITUTE SHEET (RULE 26)

FIG. 5A

Healthy area

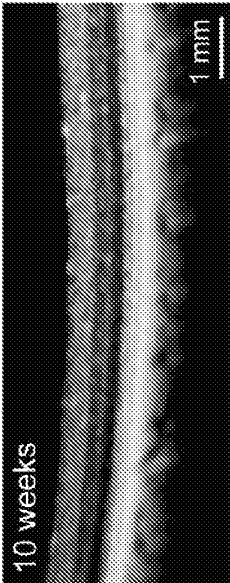


FIG. 5B

Empty PLGA scaffold

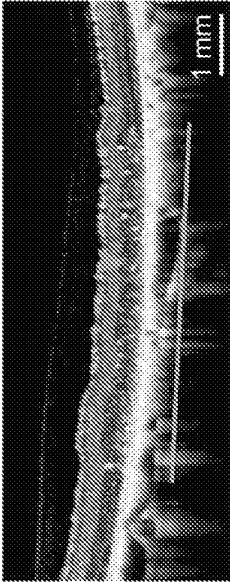


FIG. 5C

Clinical-grade AMD IRPE patch

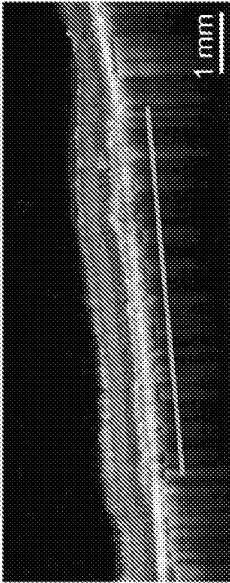


FIG. 5D

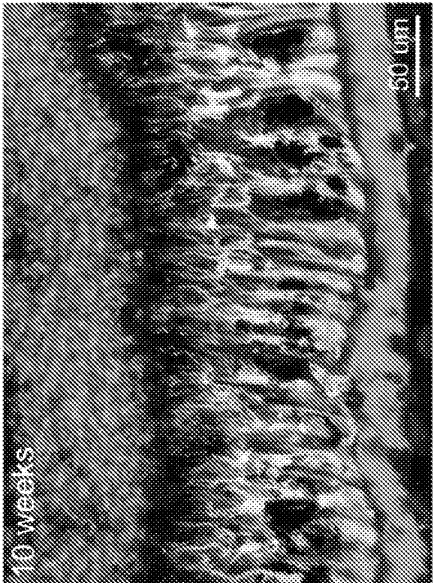


FIG. 5E

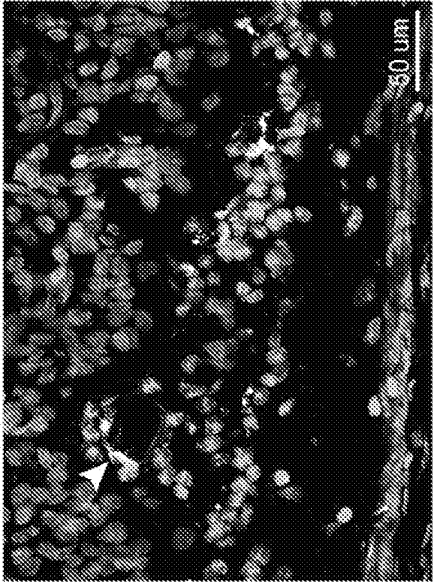


FIG. 5F

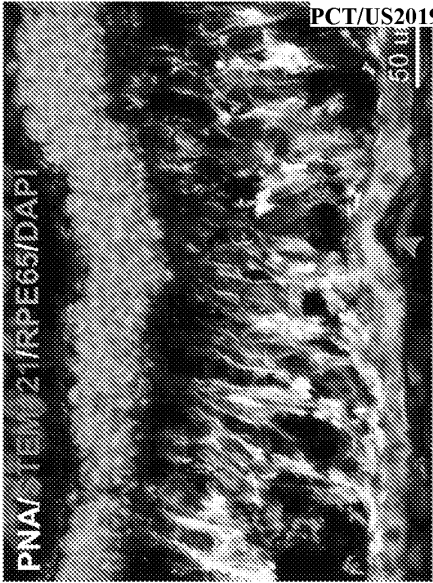


FIG. 5G



FIG. 5H

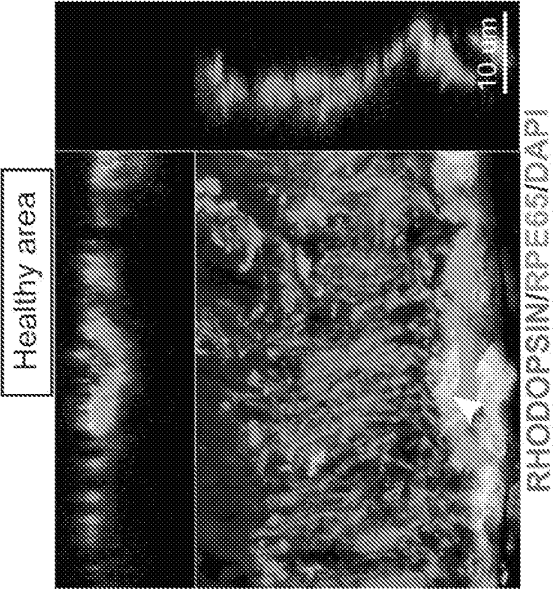


FIG. 5I

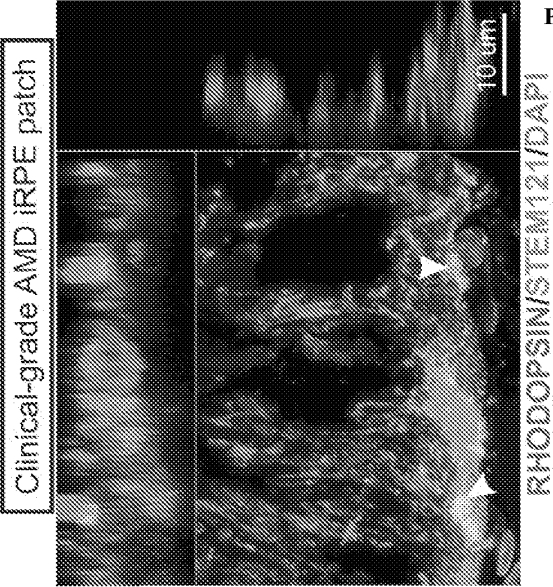


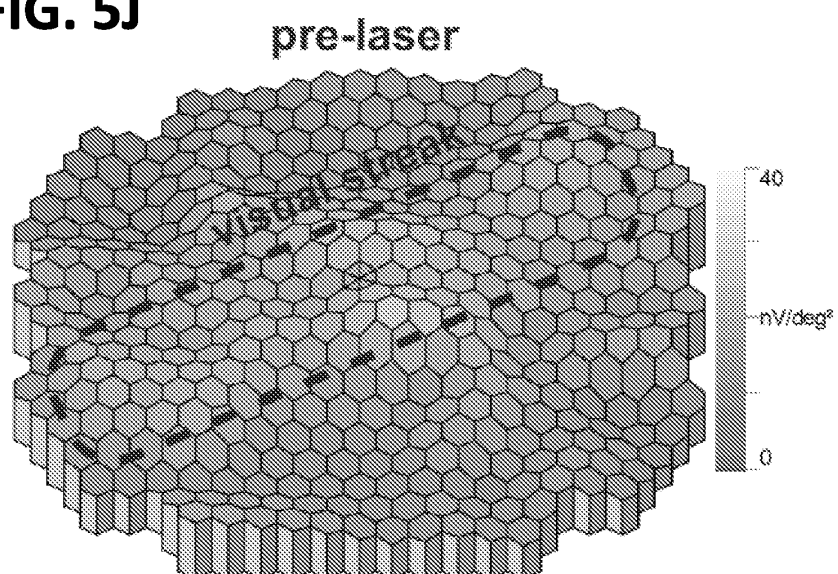
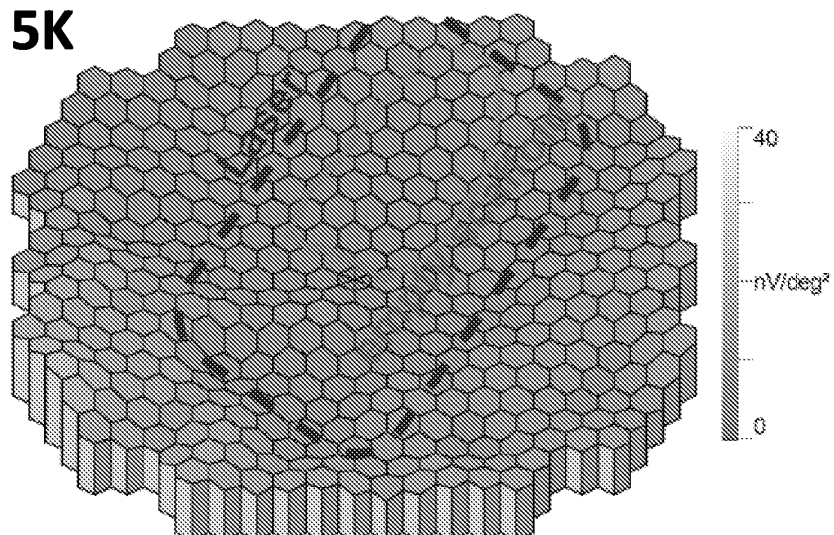
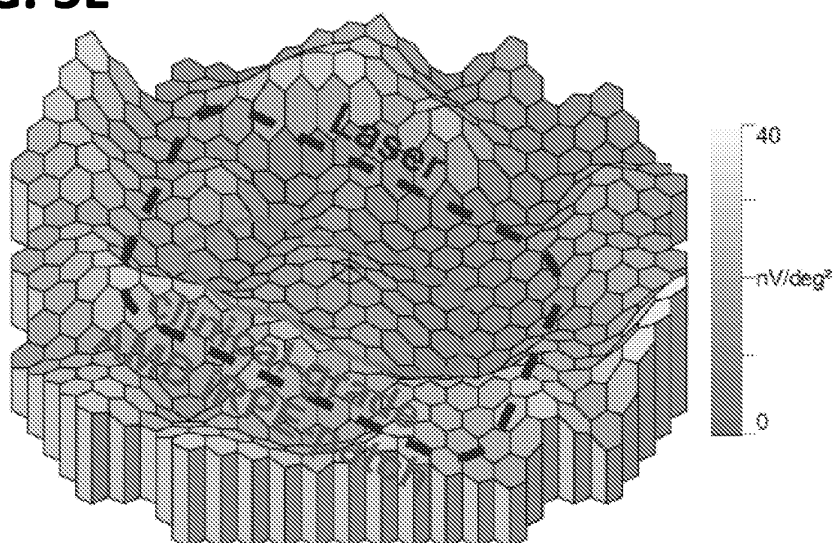
FIG. 5J**FIG. 5K****FIG. 5L**

FIG. 5M

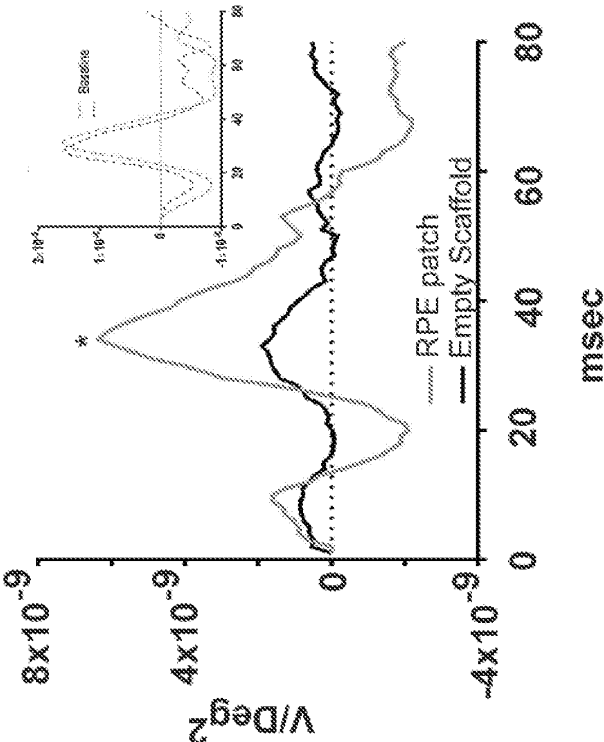


FIG. 5N

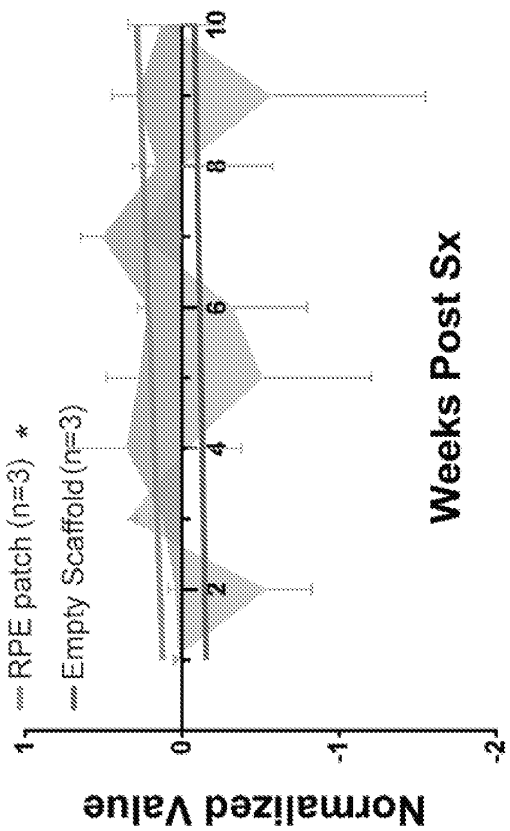


FIG. 6A

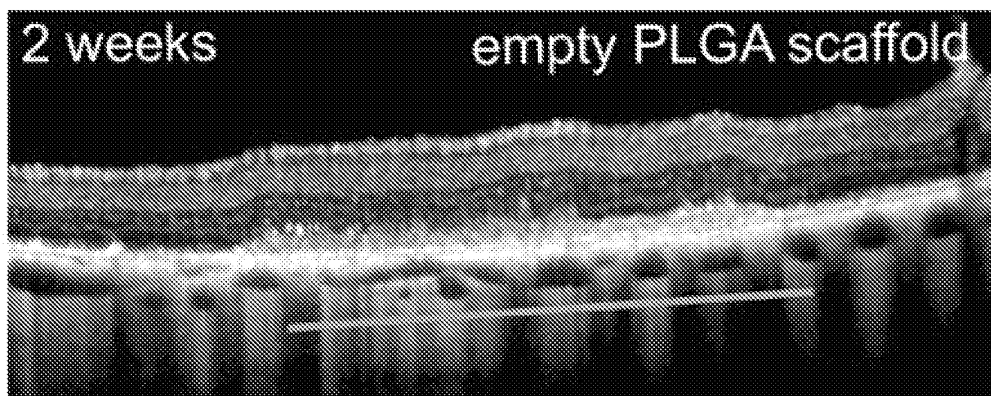


FIG. 6B

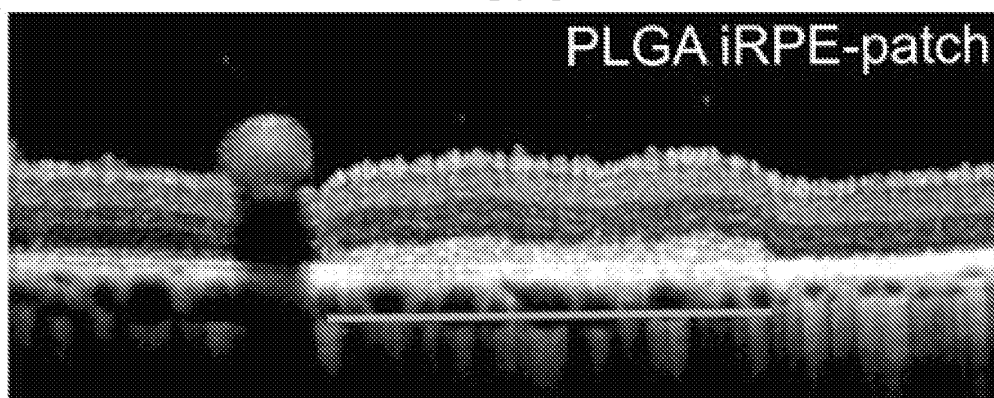


FIG. 6C

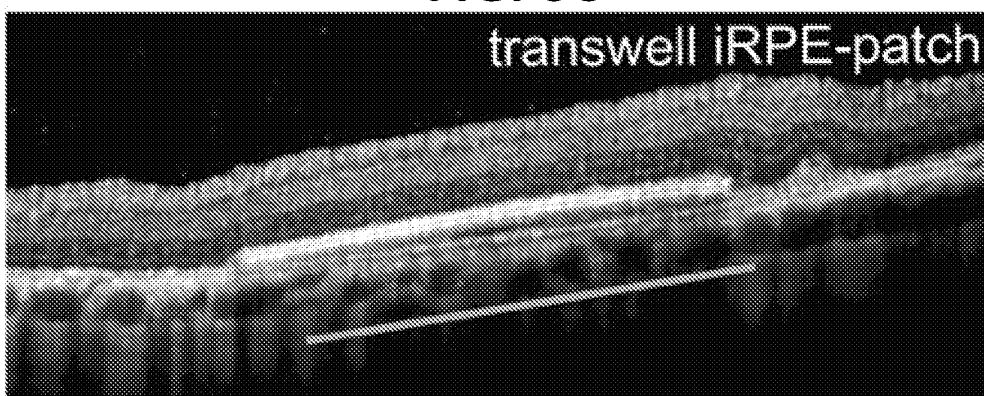


FIG. 6D

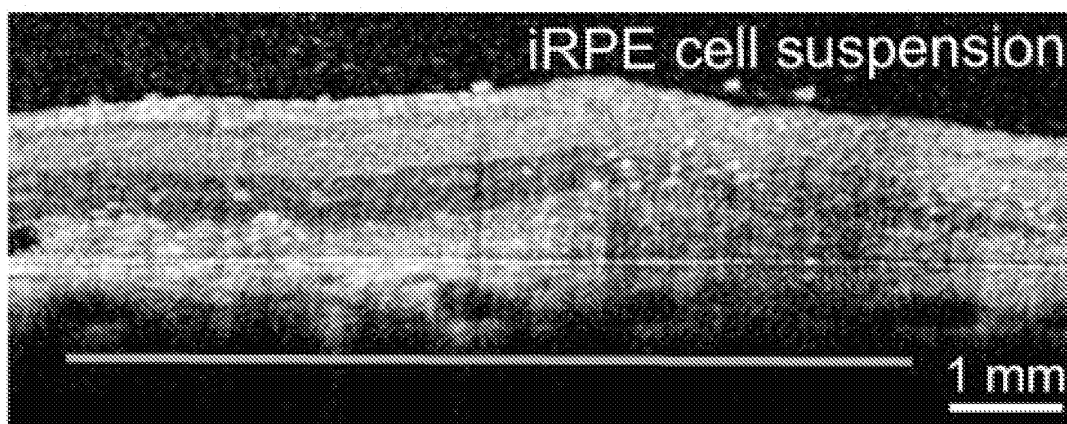


FIG. 6E

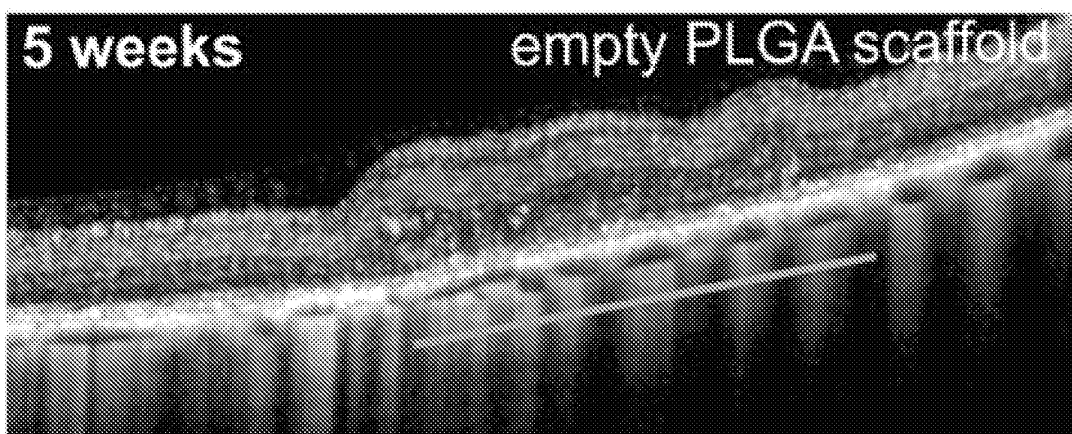


FIG. 6F

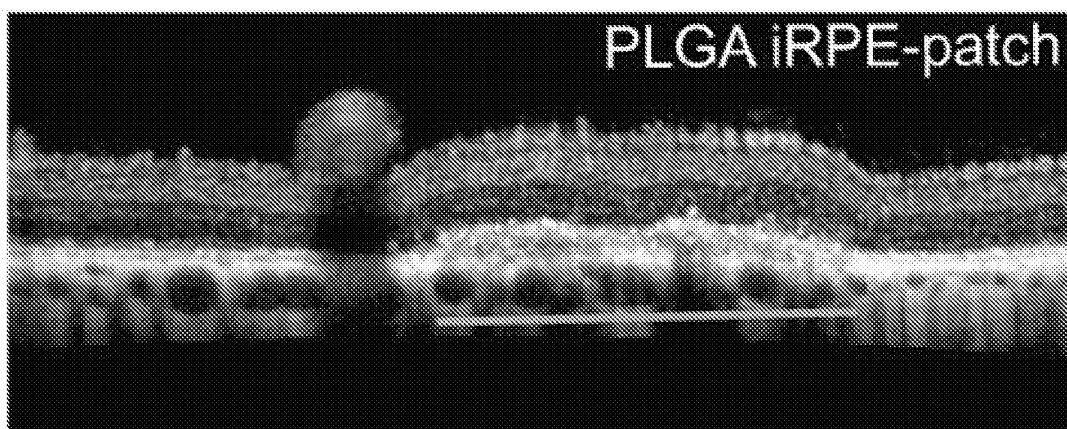
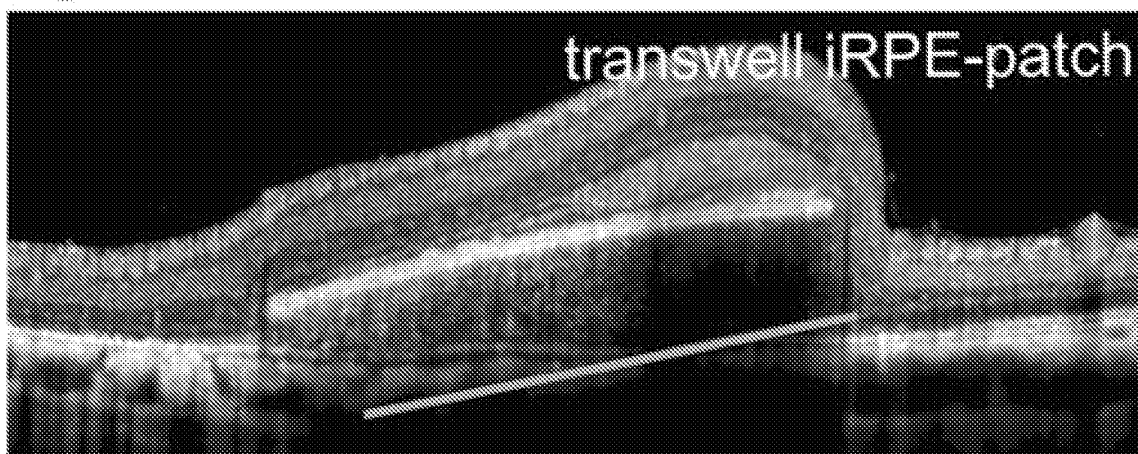
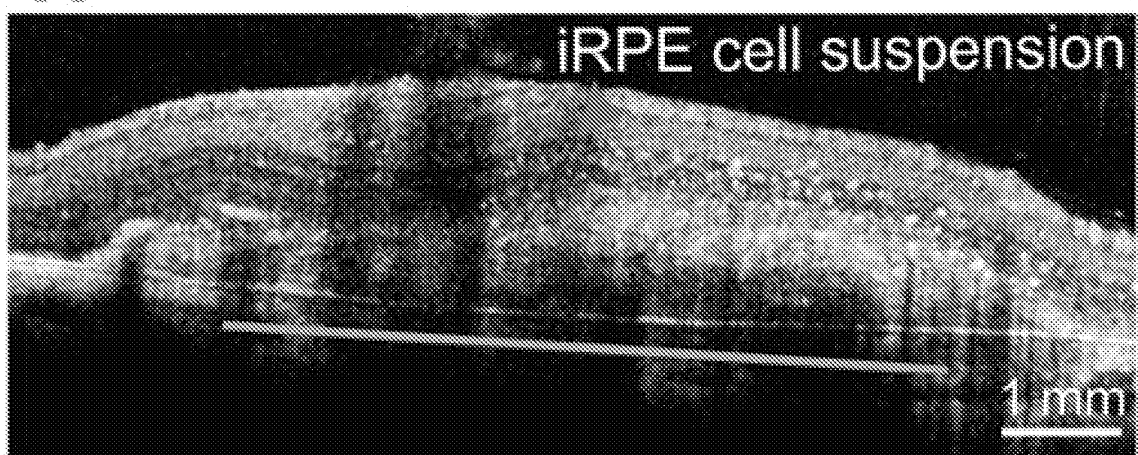
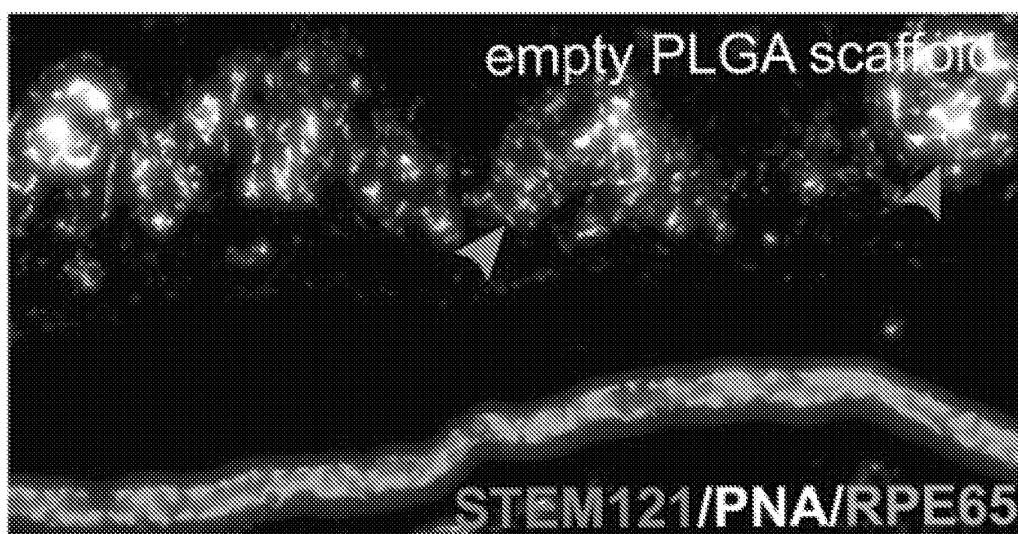


FIG. 6G**FIG. 6H****FIG. 6I**

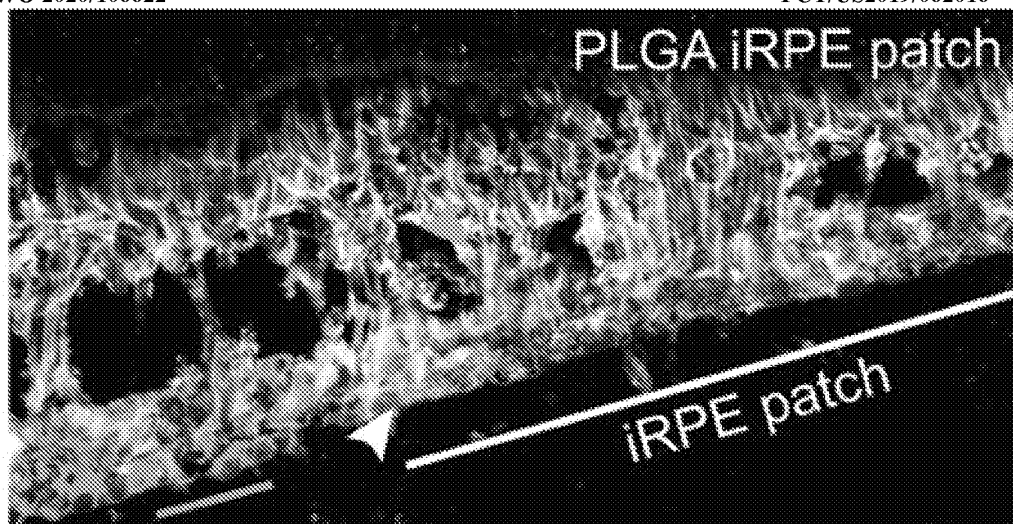


FIG. 6K

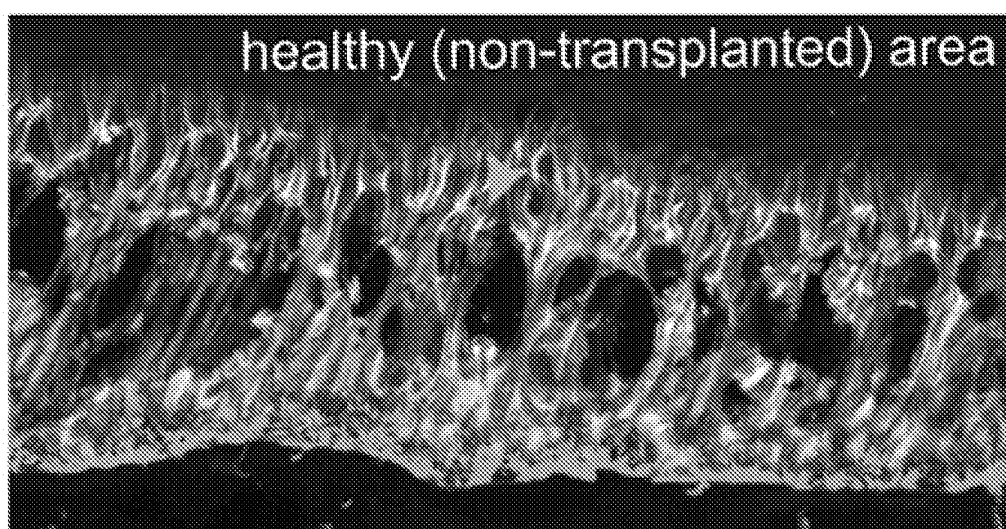


FIG. 6L

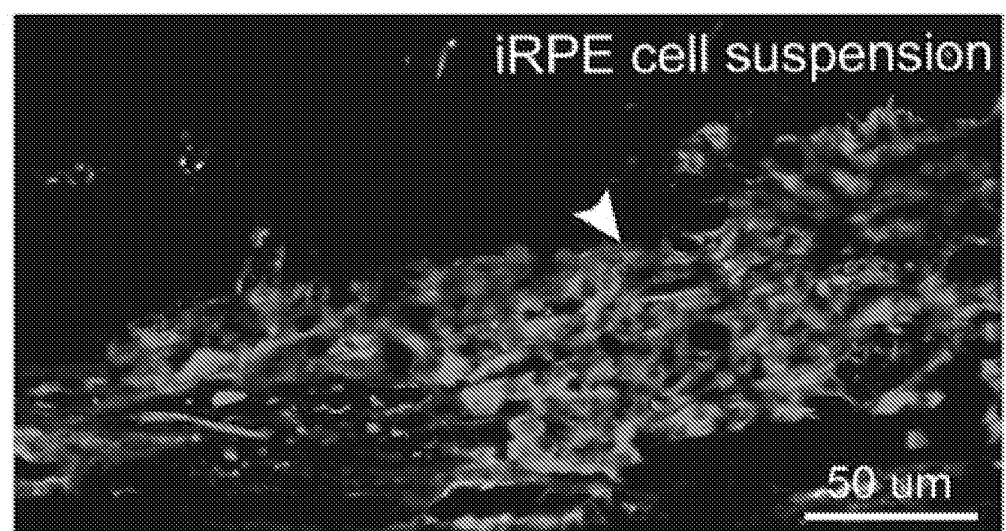


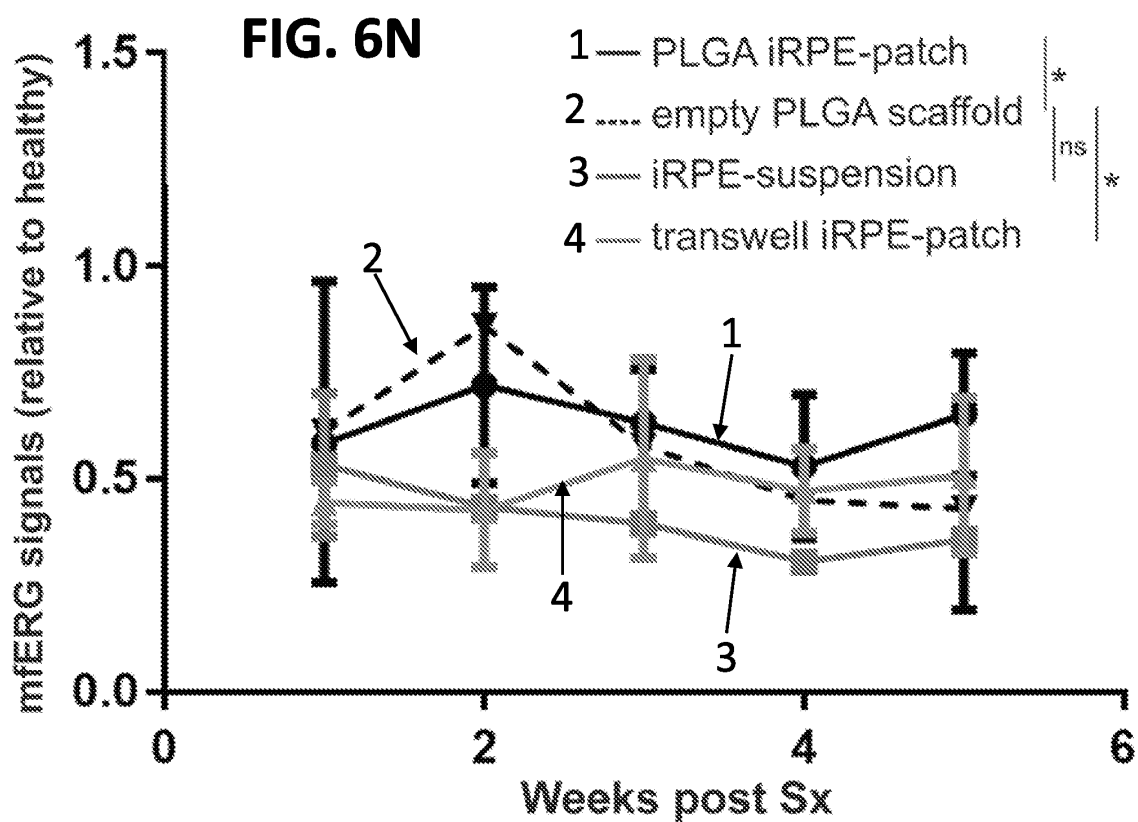
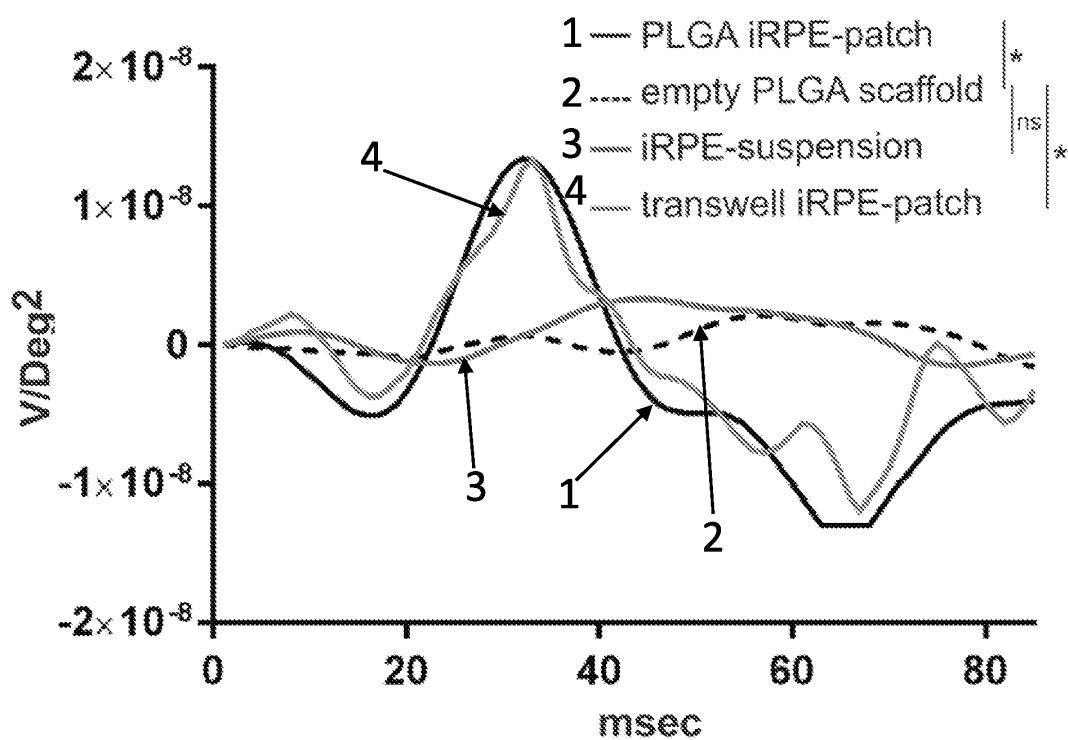
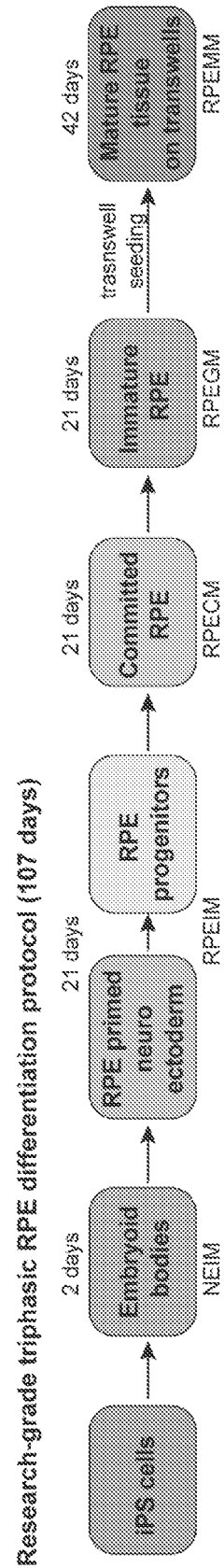
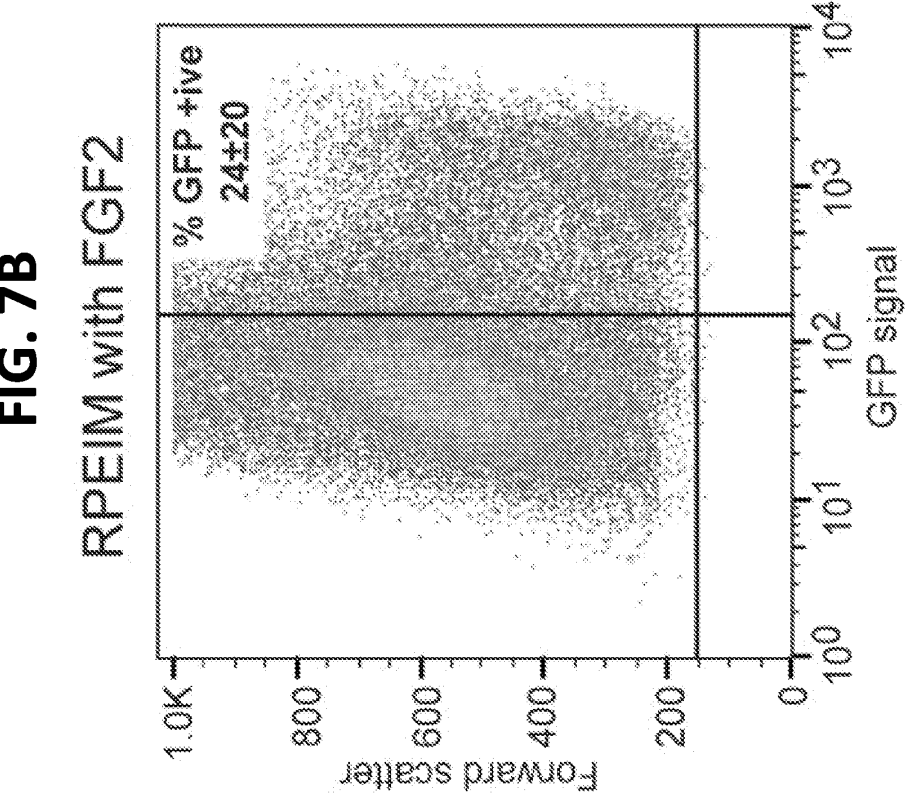
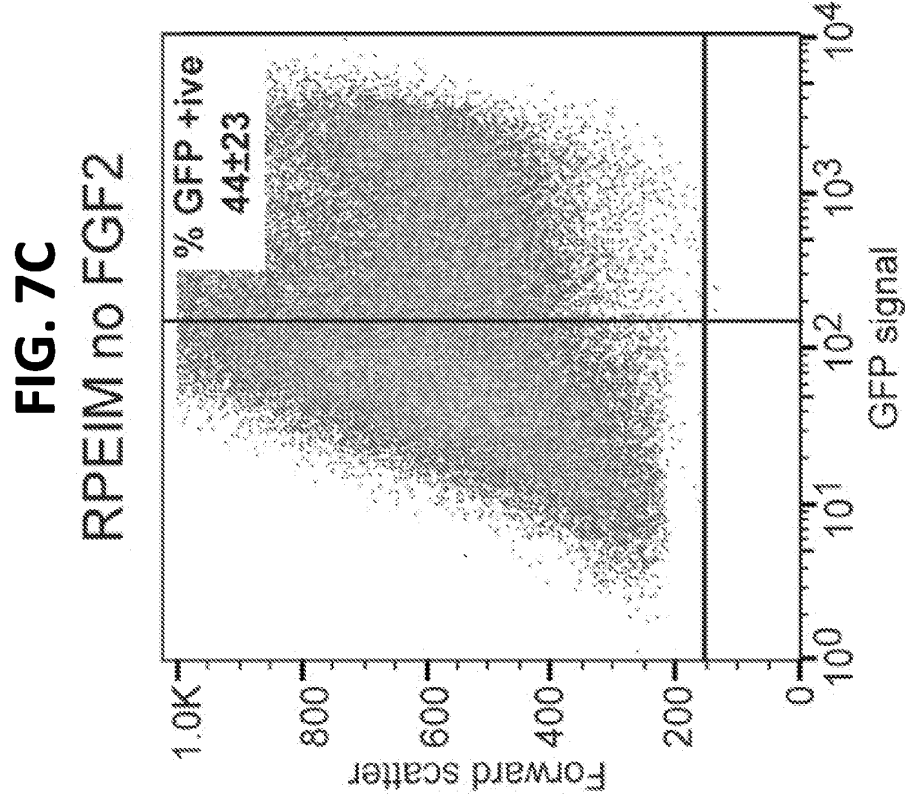
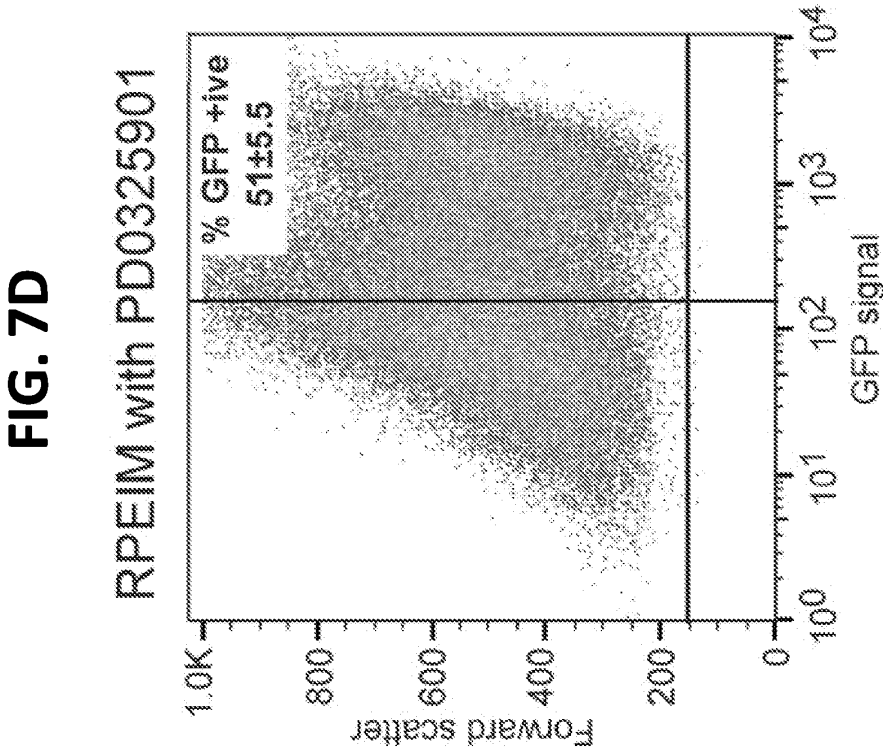
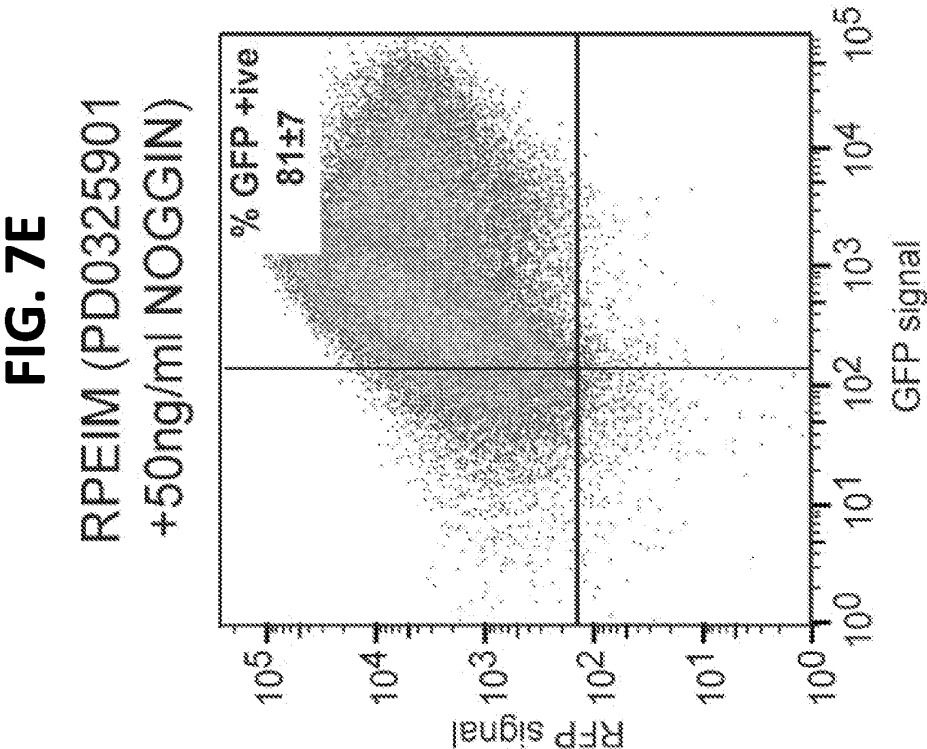
FIG. 6M

FIG. 7A





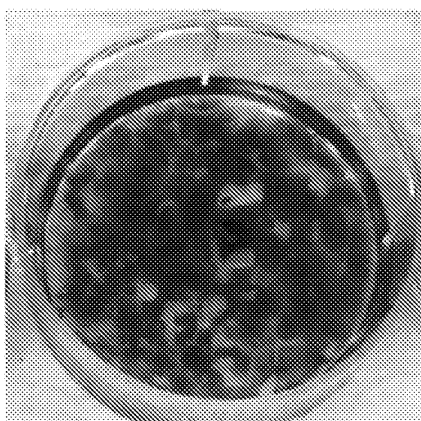


Percent GFP positive cells in RPECM with:

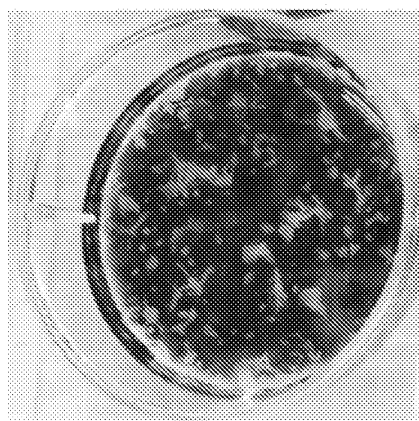
ACTIVIN A - (A)	69 ± 16
Nicotinamide +ACTIVIN A - (NA)	81 ± 7
WNT3a (W)	83 ± 8.5
Nicotinamide + ACTIVIN A + WNT3 (NAW)	82 ± 10

FIG. 7G

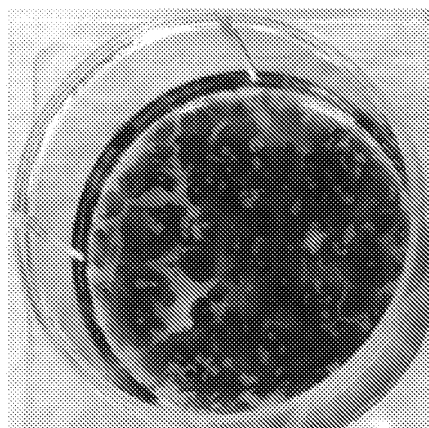
Healthy fibroblast
iPSC-RPE



AMD fibroblast
iPSC1-RPE



AMD fibroblast
iPSC2-RPE



Healthy CD34⁺
iPSC-RPE

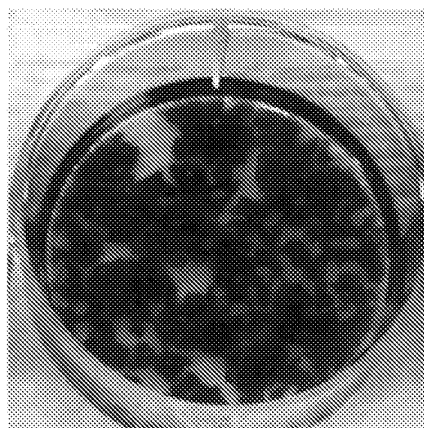


FIG. 7H

Research-grade protocol (Day 42)

FIG. 7I

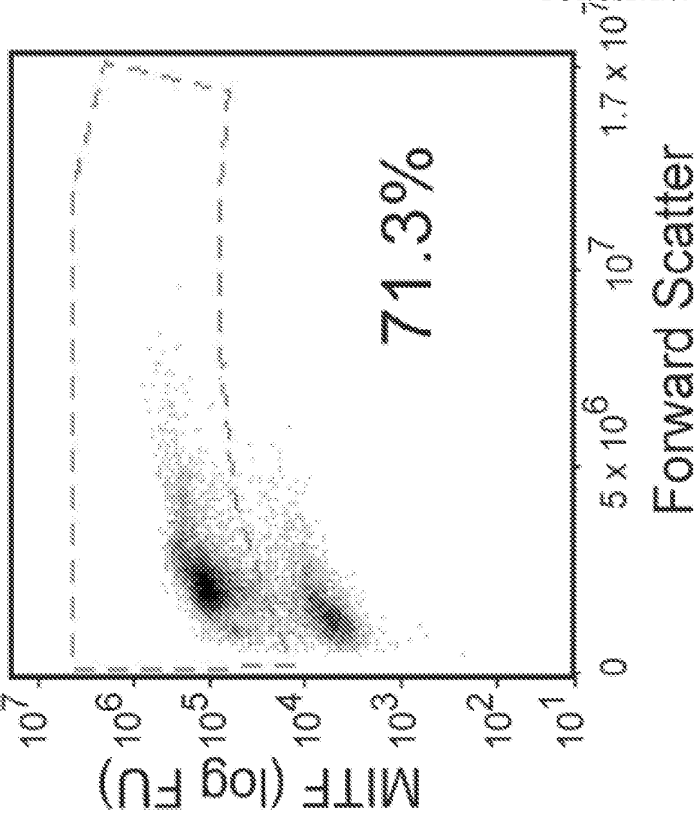
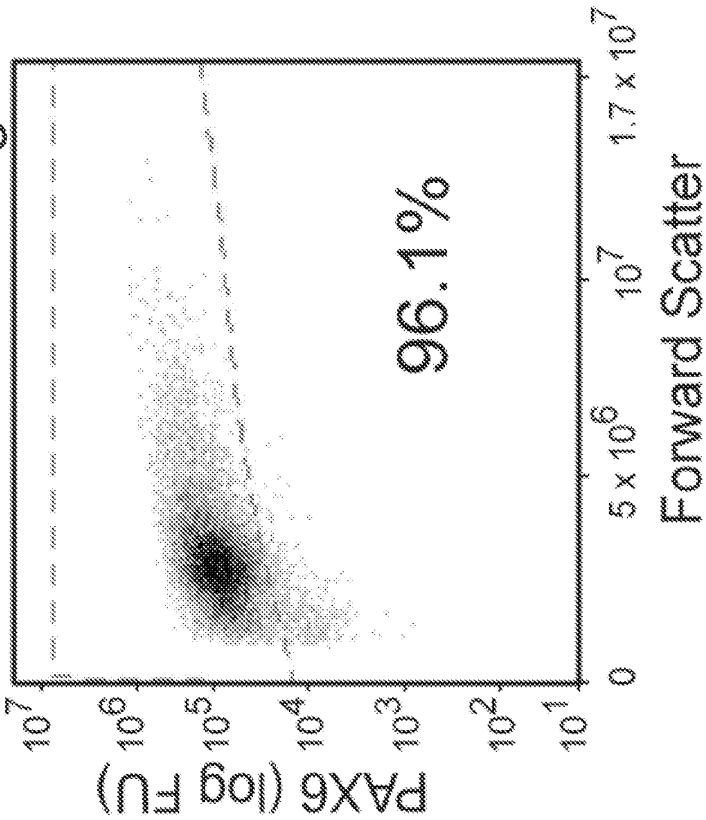
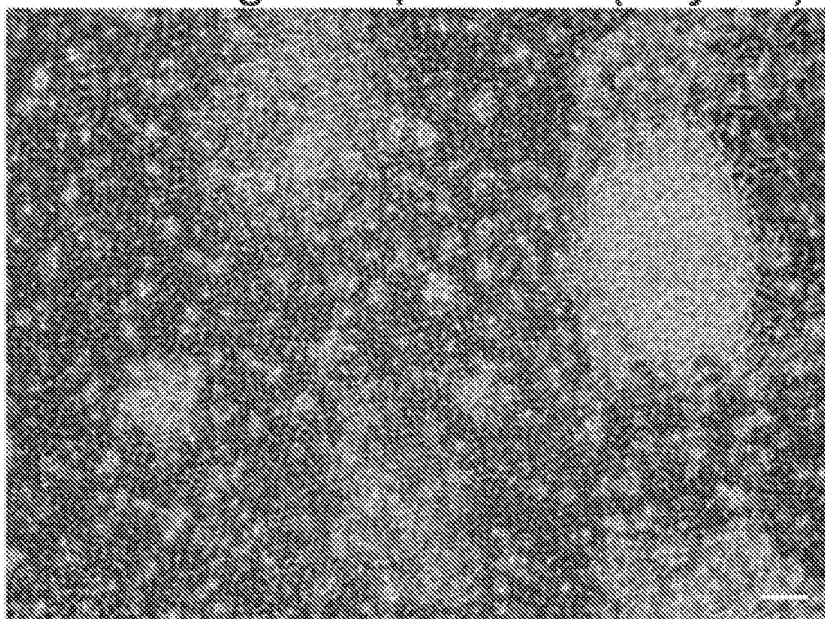


FIG. 7J

Clinical-grade protoocl (day 12)



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FIG. 7L

Purity of clinical-grade iRPE

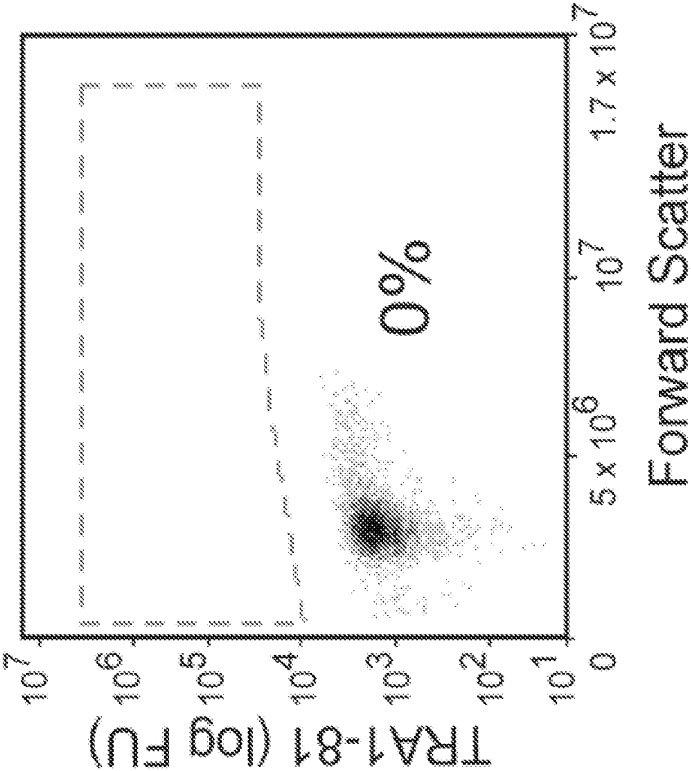


FIG. 7K

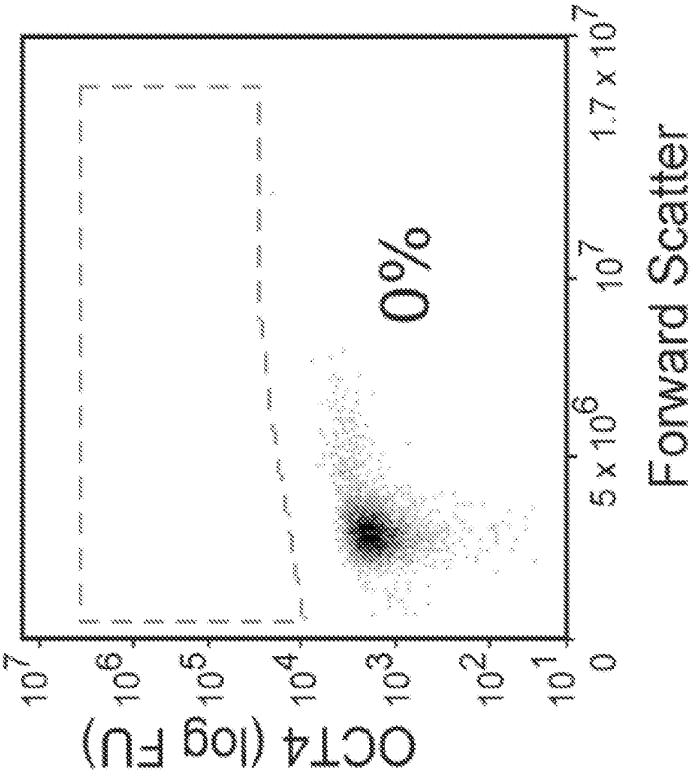
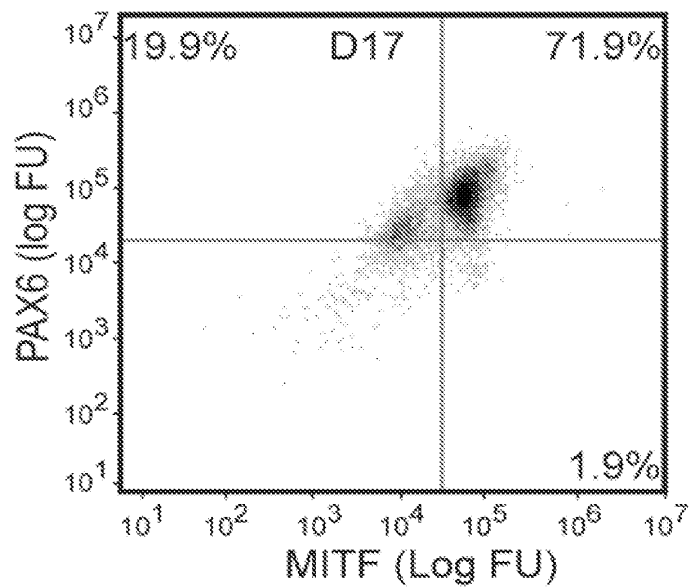
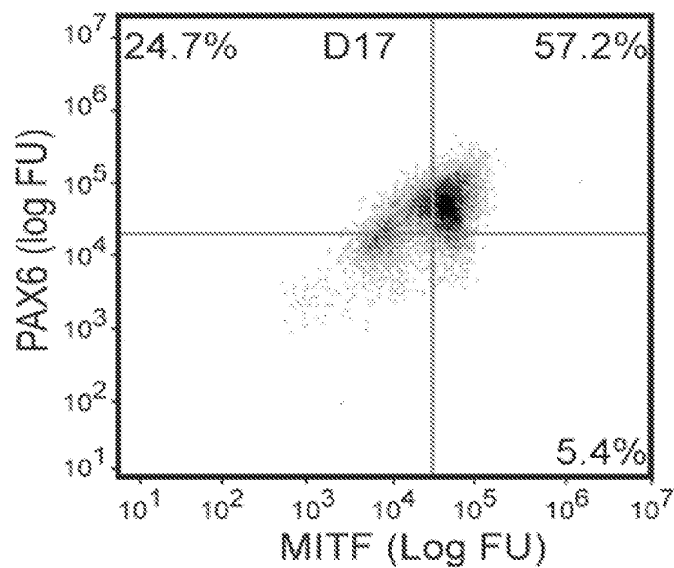


FIG. 7M

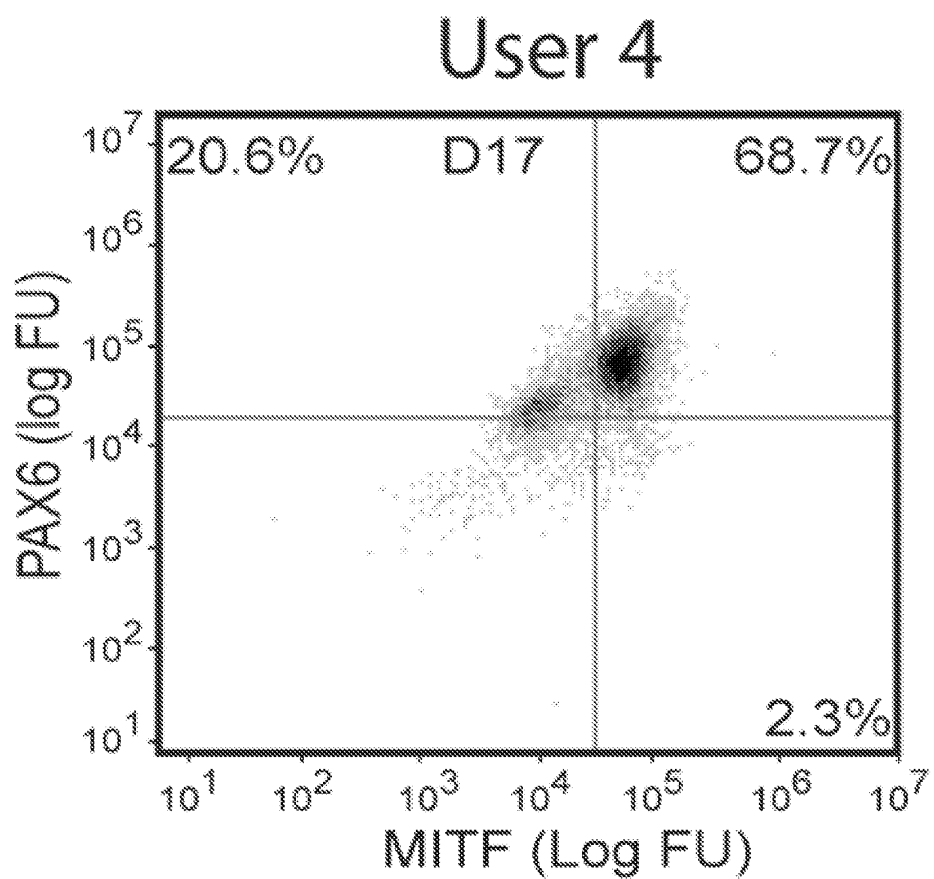
User 2

**FIG. 7N**

User 3



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FIG. 70

SUBSTITUTE SHEET (RULE 26)

FIG. 8A**FIG. 8B**

In vitro degradation of PLGA scaffolds - side view

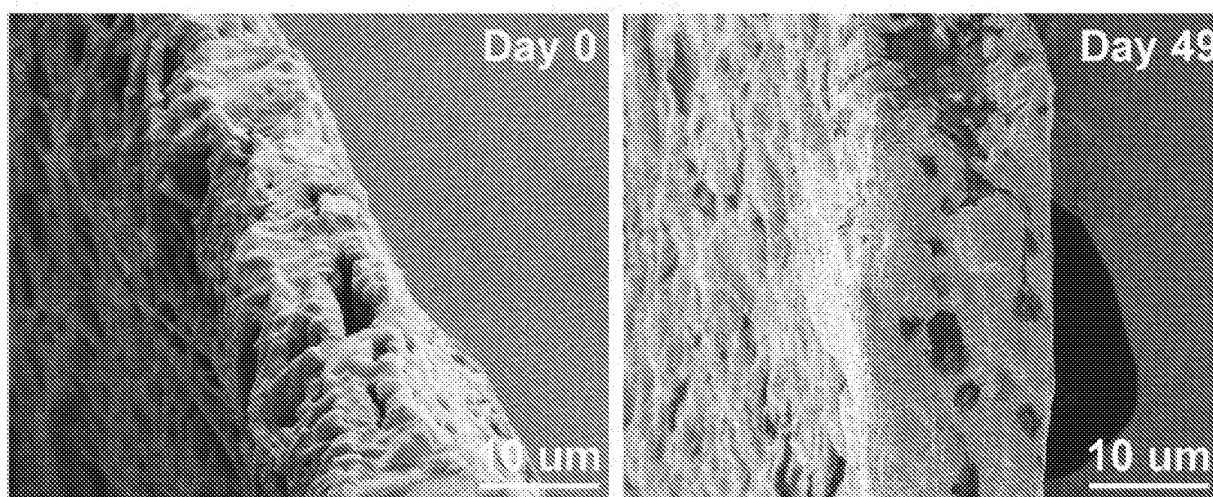
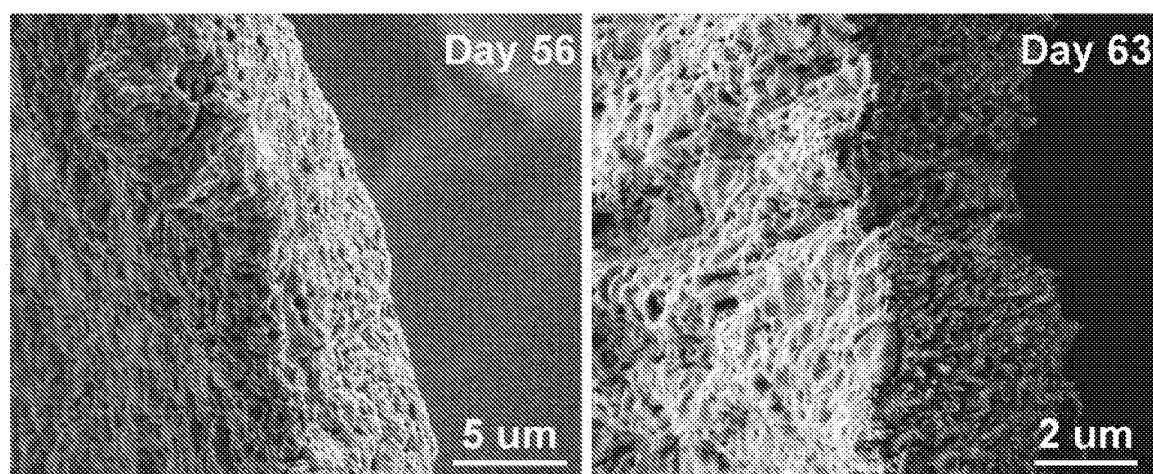
**FIG. 8C****FIG. 8D**

FIG. 8E**FIG. 8F**

In vitro degradation of PLGA scaffolds - top view

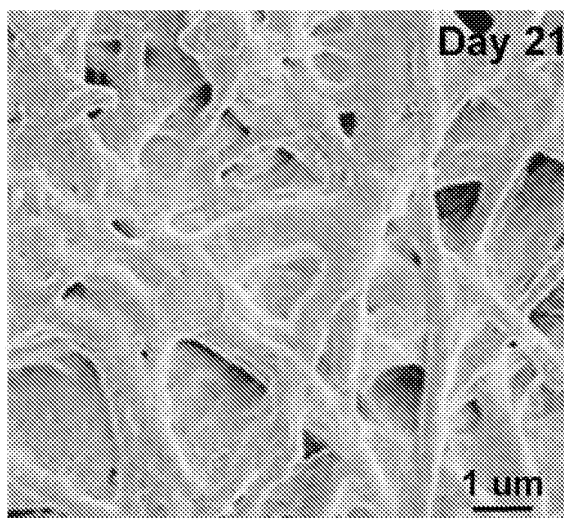
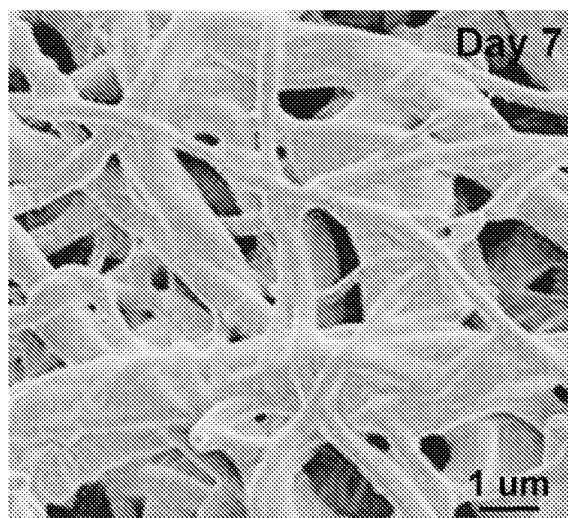
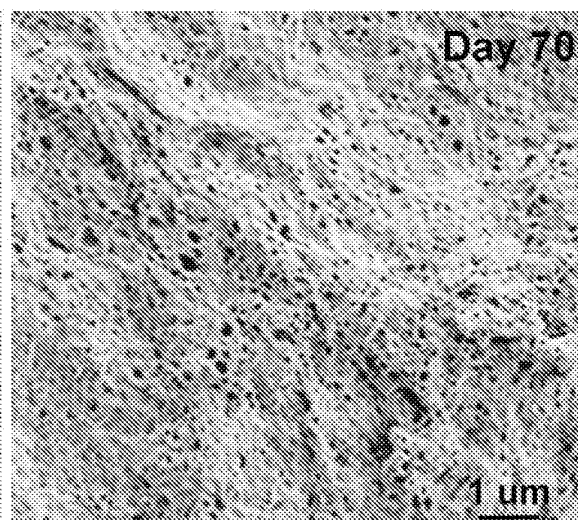
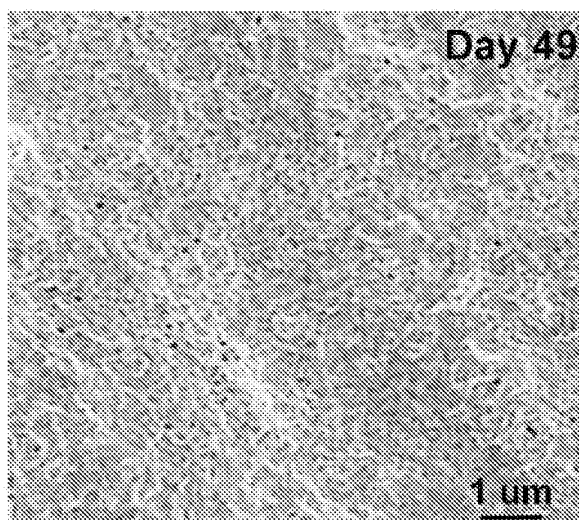
**FIG. 8G****FIG. 8H**

FIG. 9A

iRPE on transwell

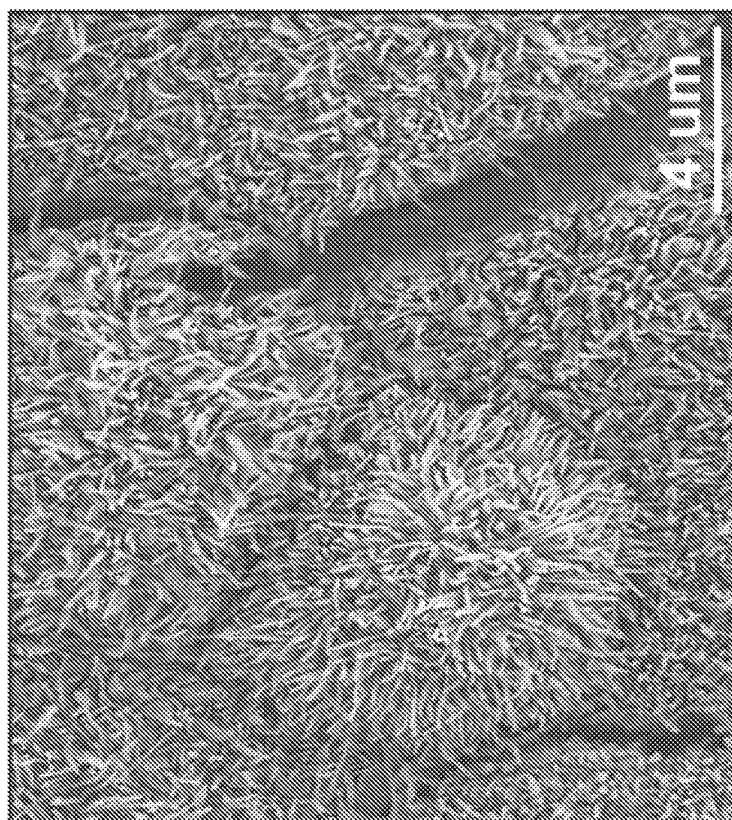


FIG. 9B

iRPE on PLGA scaffold

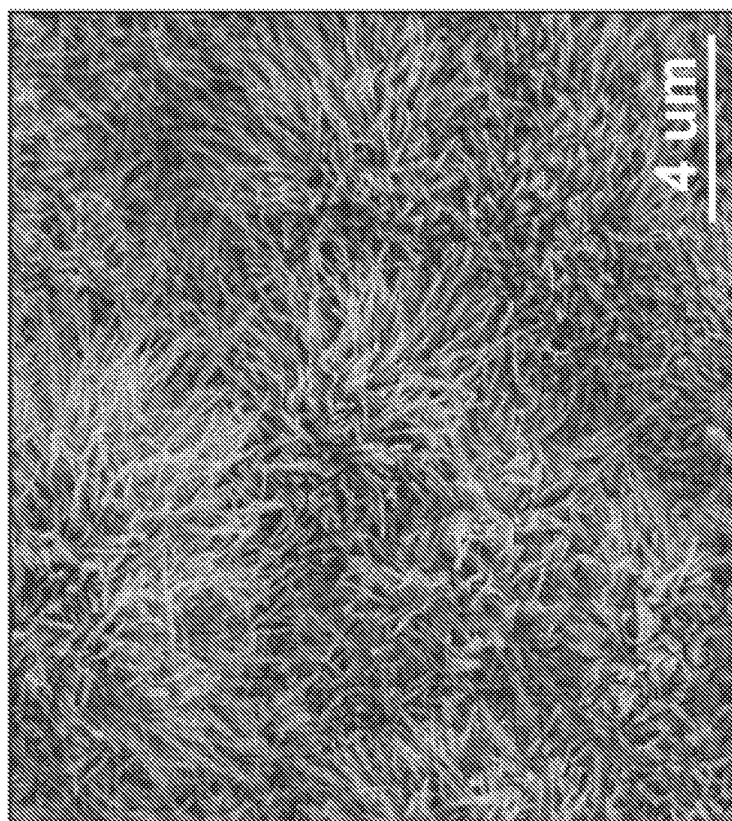


FIG. 9C Transwell membrane

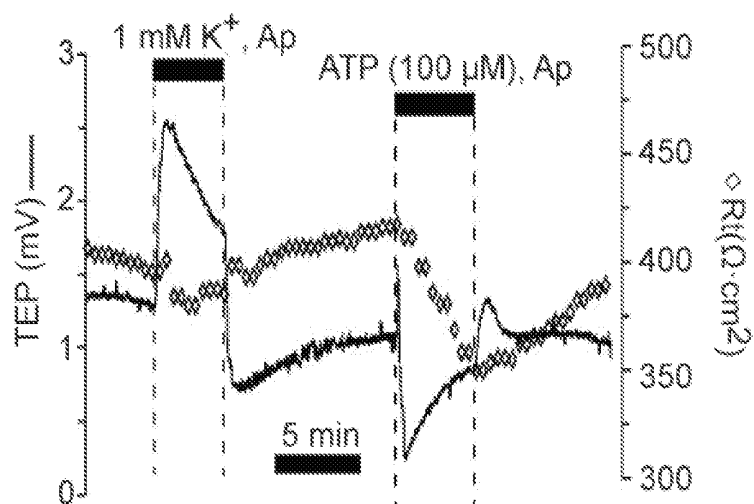
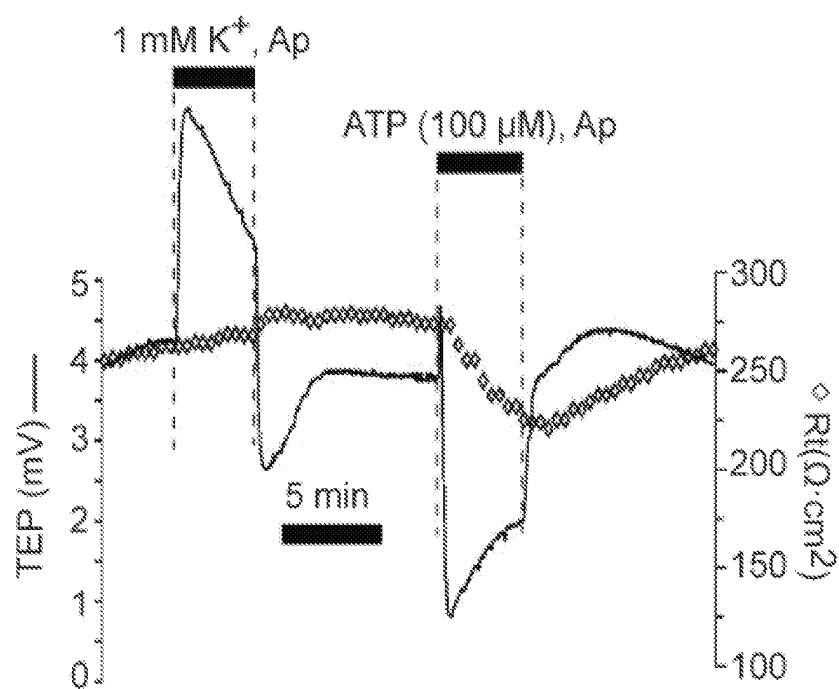
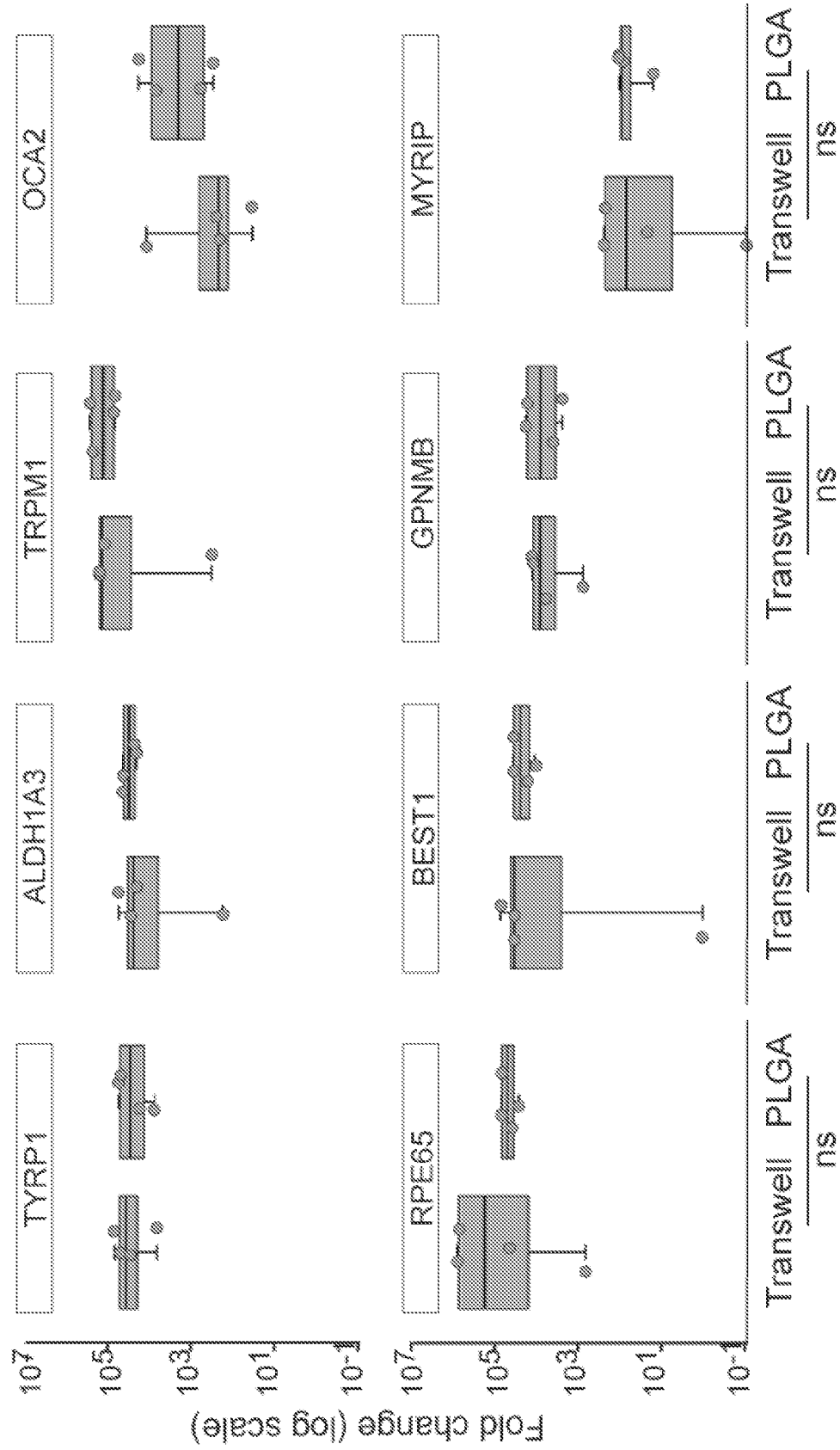


FIG. 9D PLGA scaffold



SUBSTITUTE SHEET (RULE 26)

FIG. 9E



SUBSTITUTE SHEET (RULE 26)

FIG. 9F

iRPE (D4C)

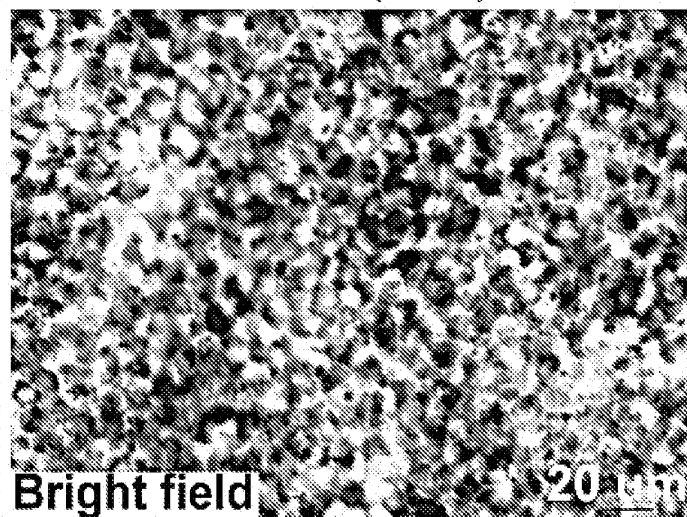


FIG. 9G

iRPE (D4C)

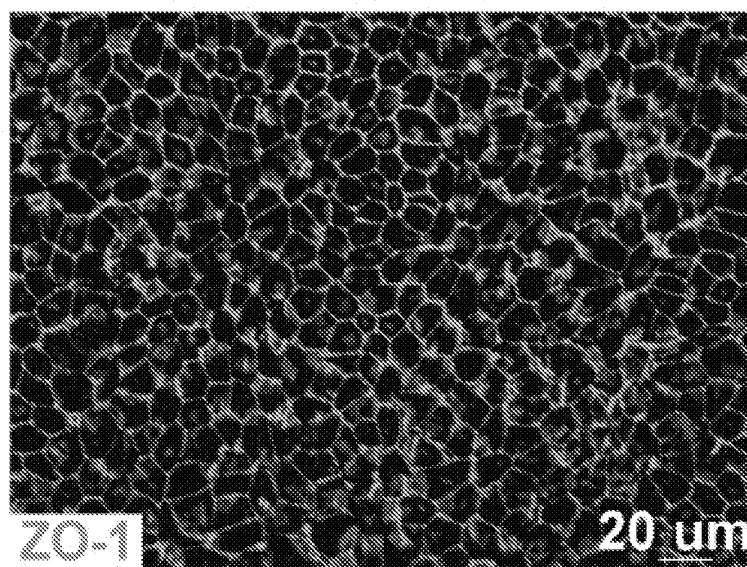


FIG. 9H

Representative segmented image

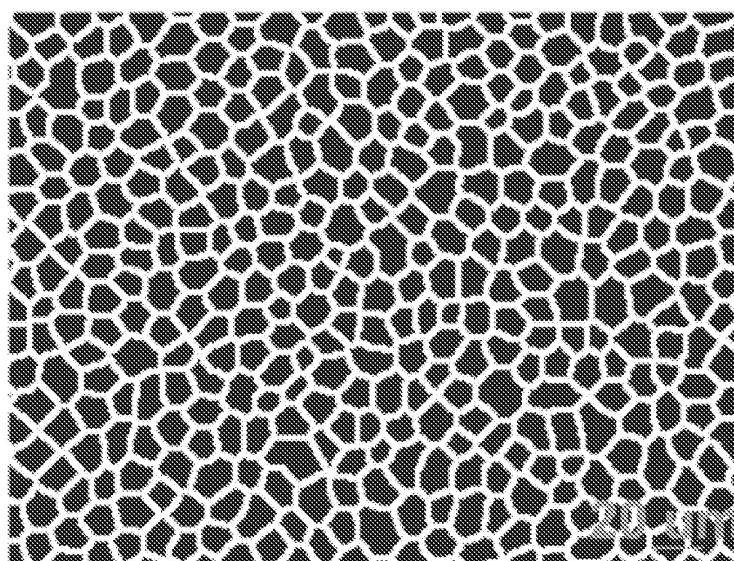
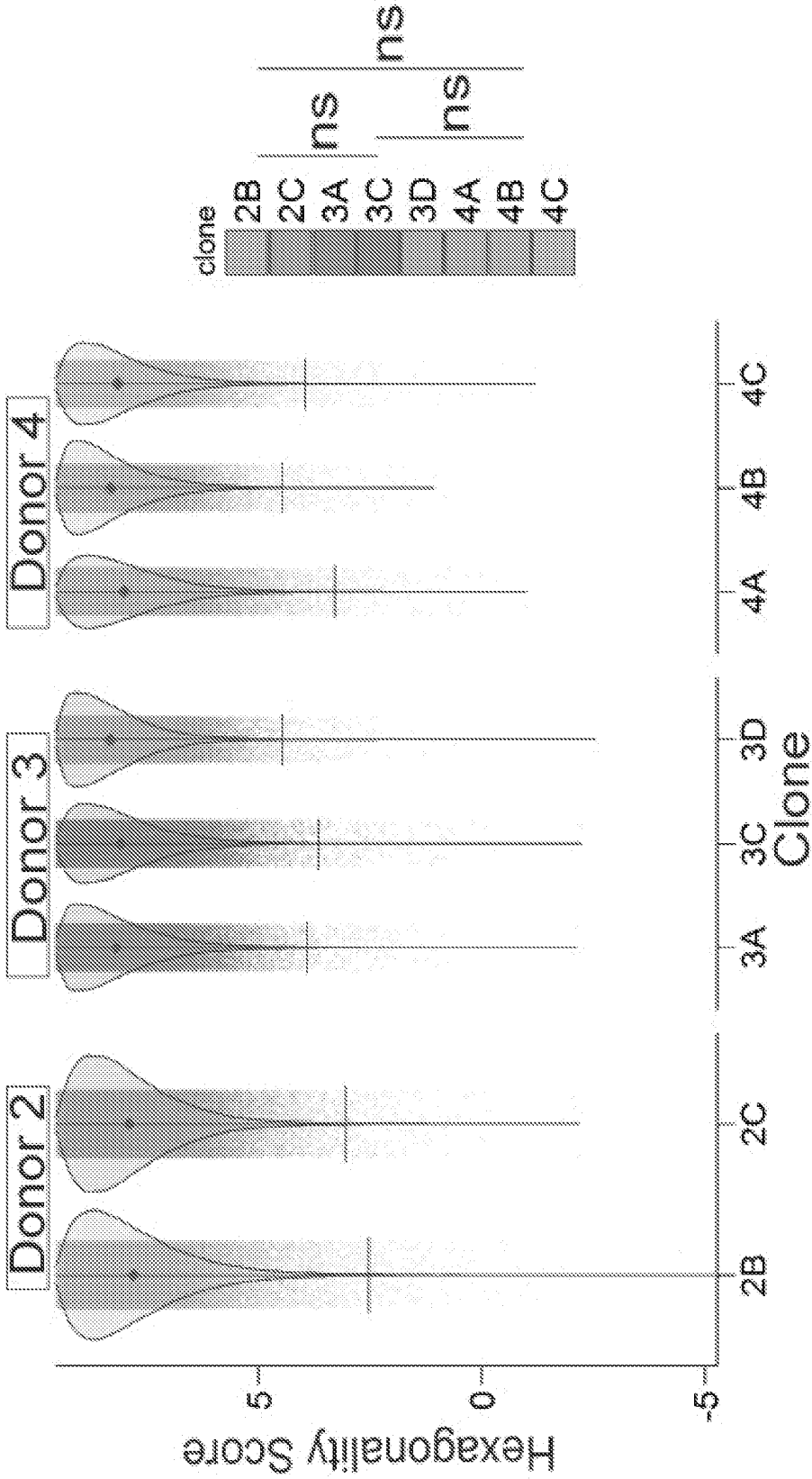


FIG. 9I



SUBSTITUTE SHEET (RULE 26)

FIG. 9J

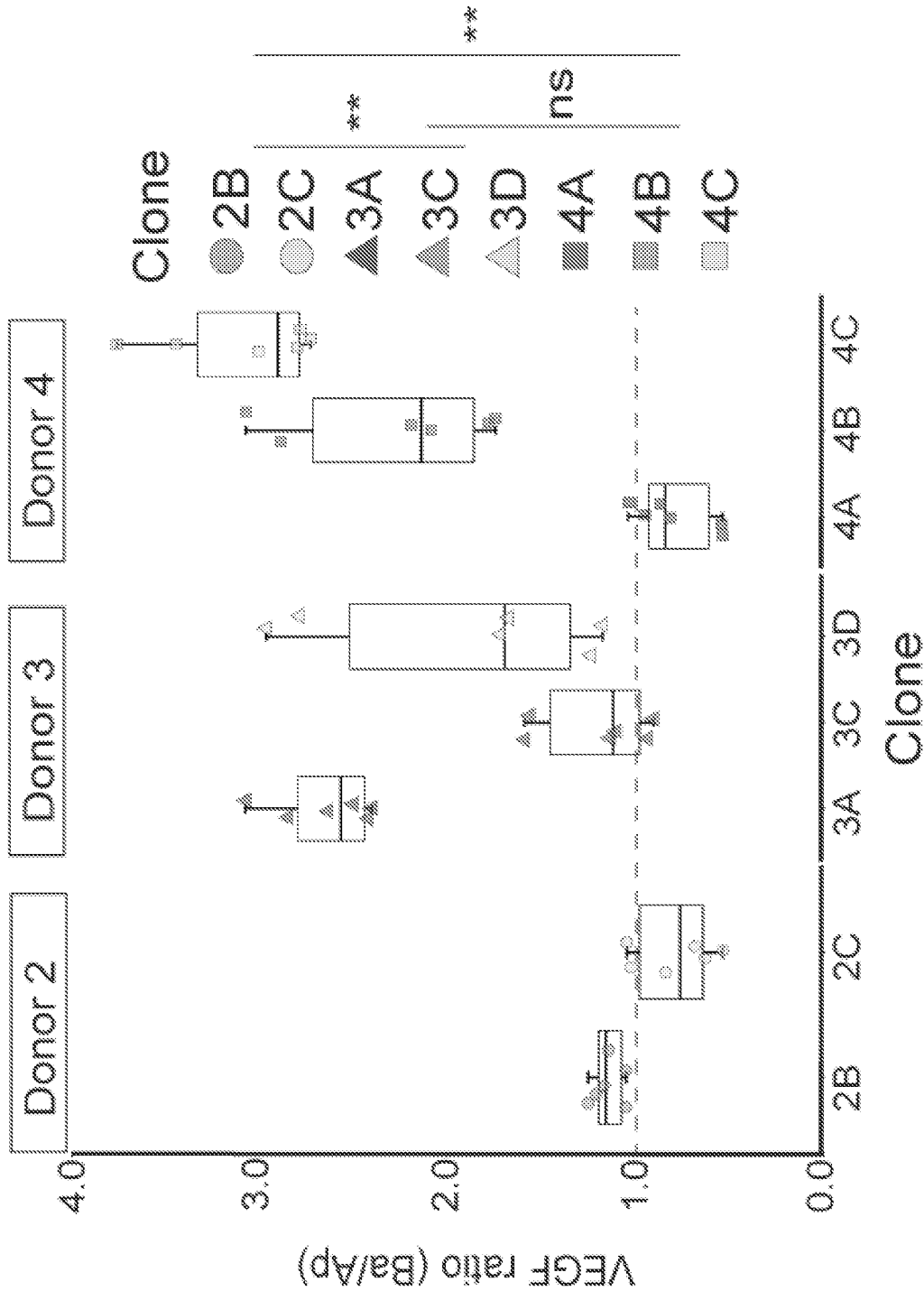


FIG. 10A

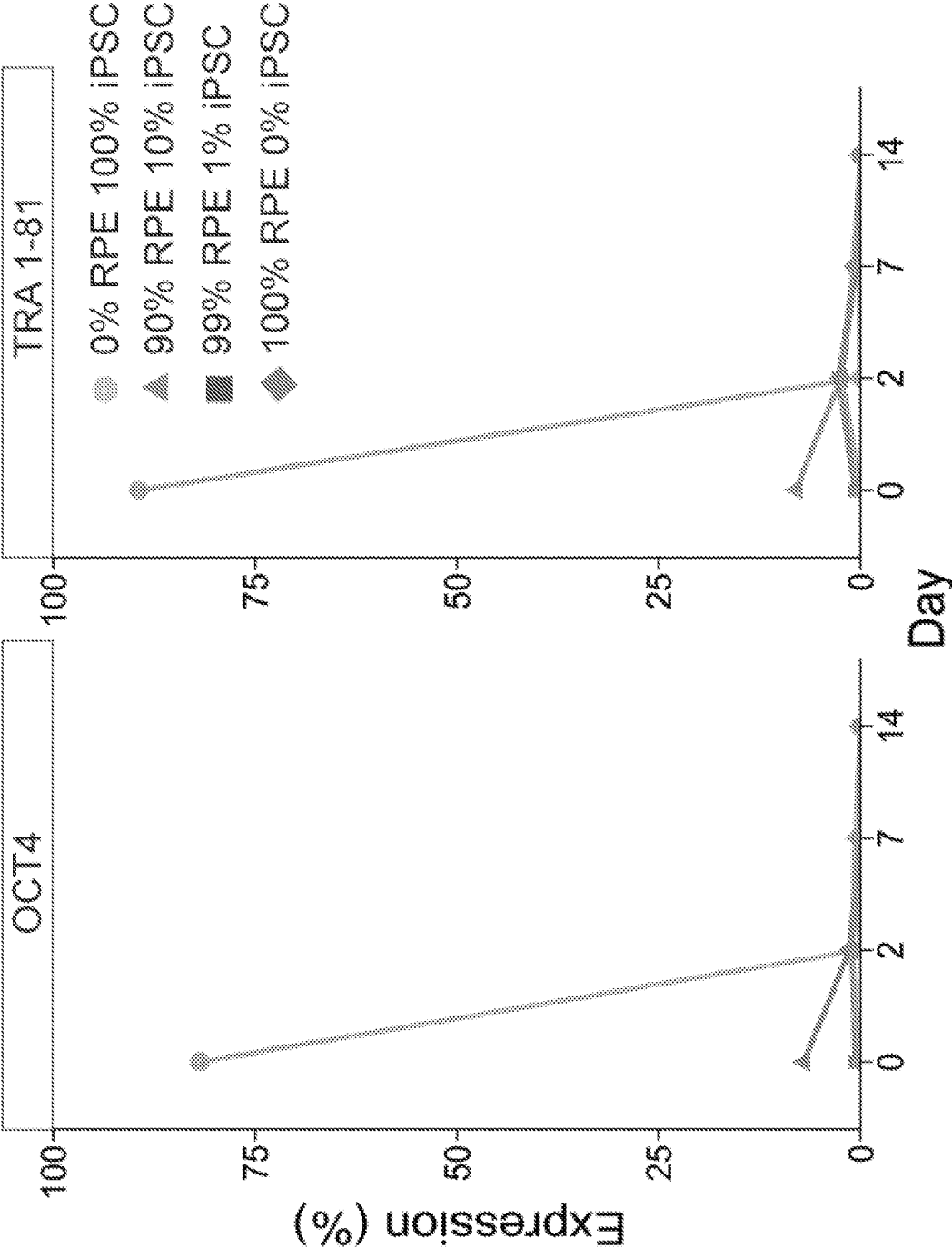


FIG. 10B

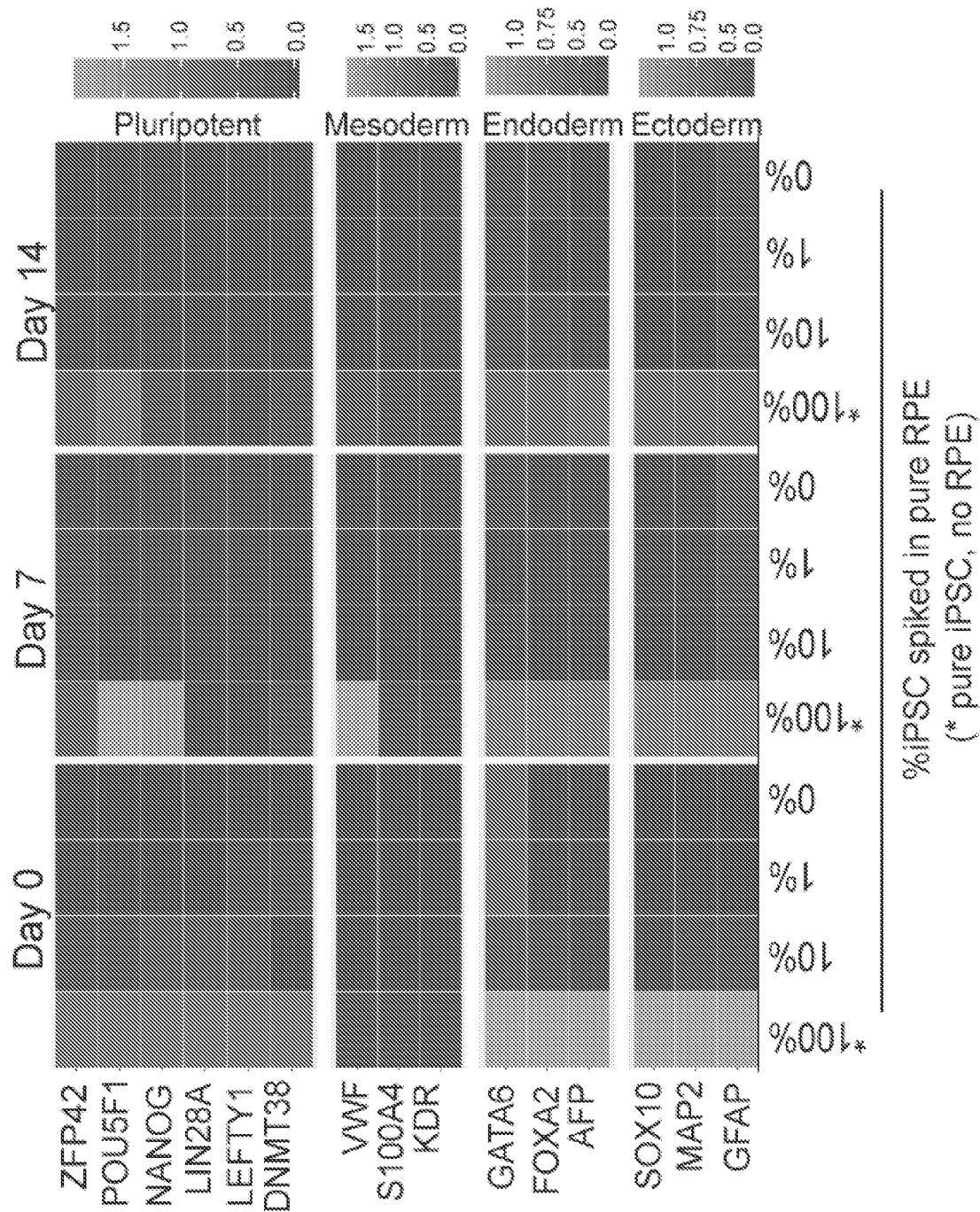


FIG. 11A

Schematic iRPE
patch transplantation procedure

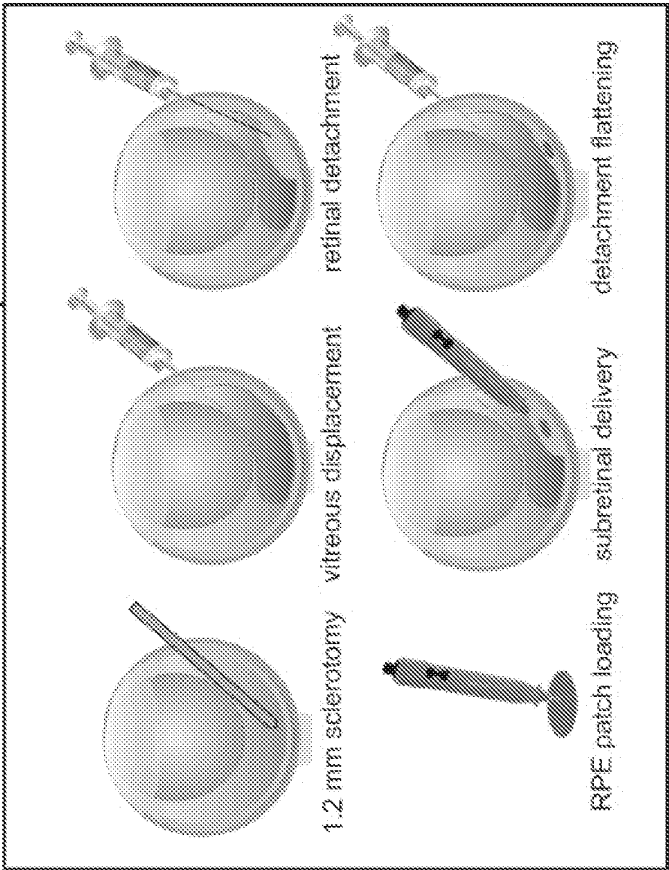


FIG. 11B

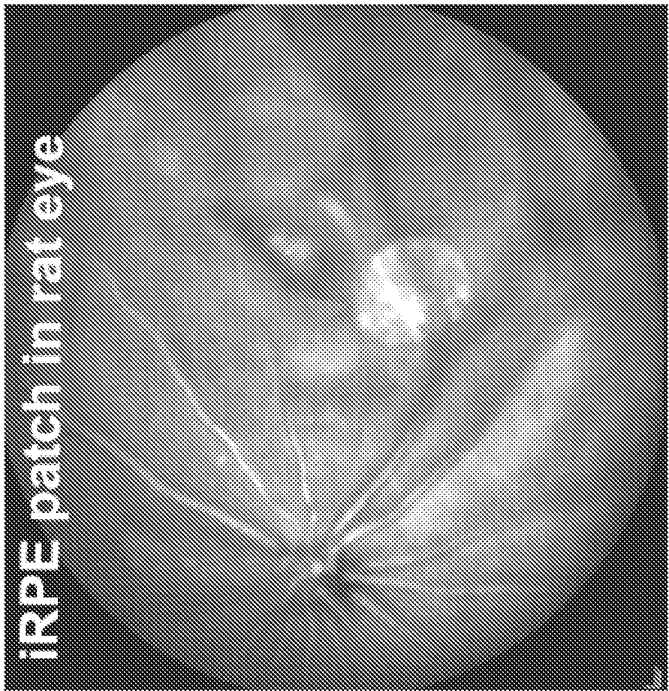


FIG. 11C

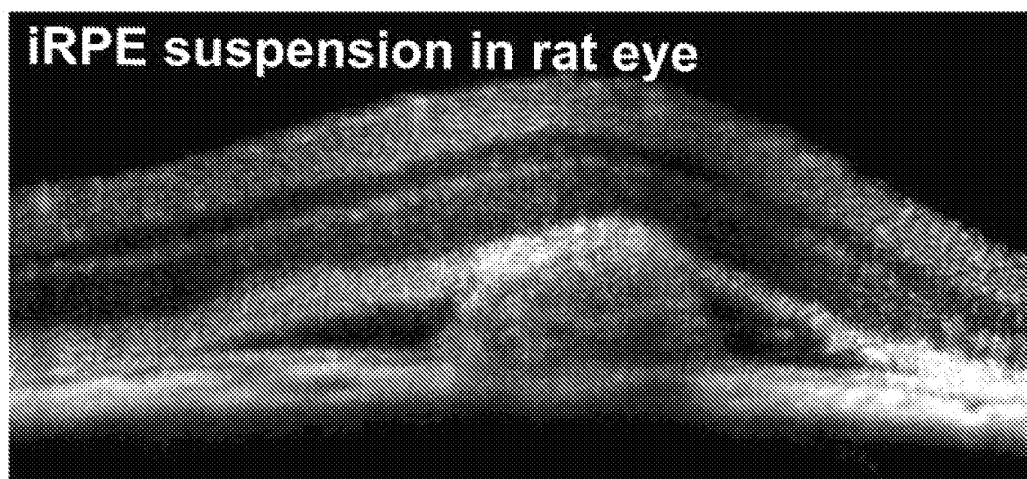


FIG. 11D

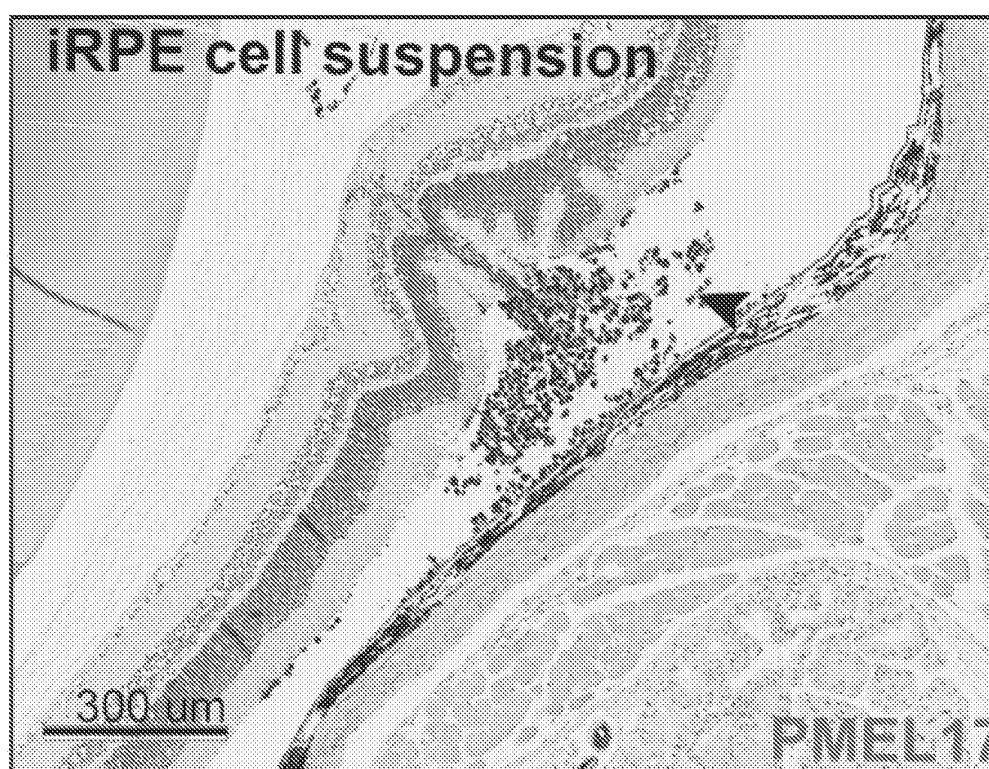


FIG. 11E

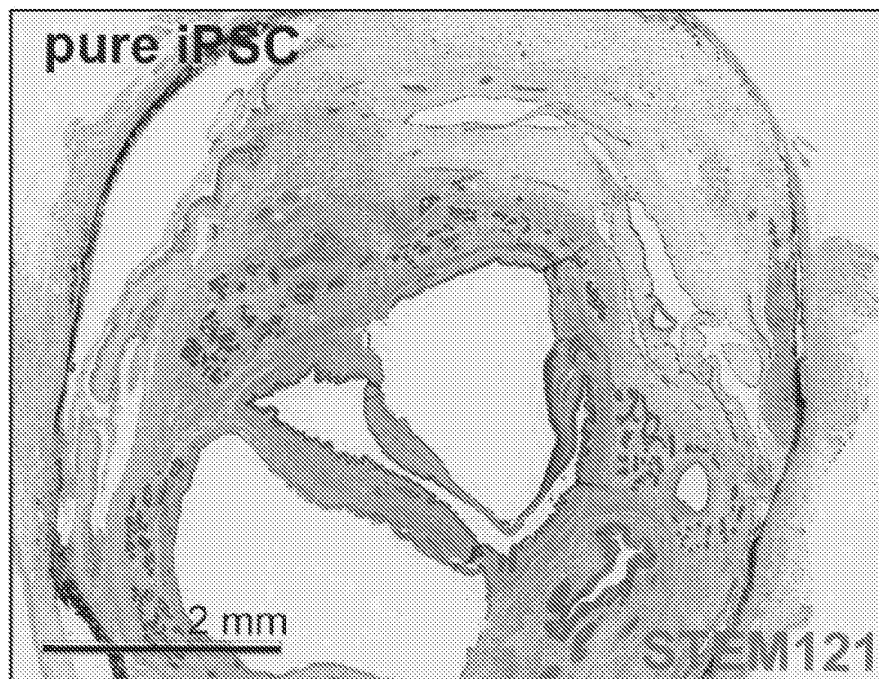


FIG. 11F

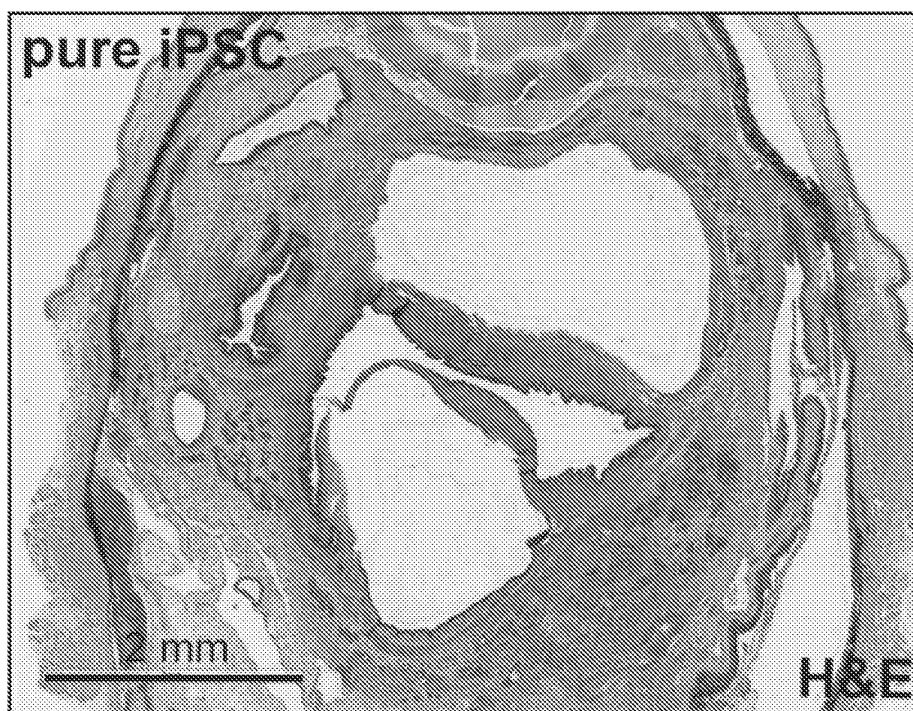
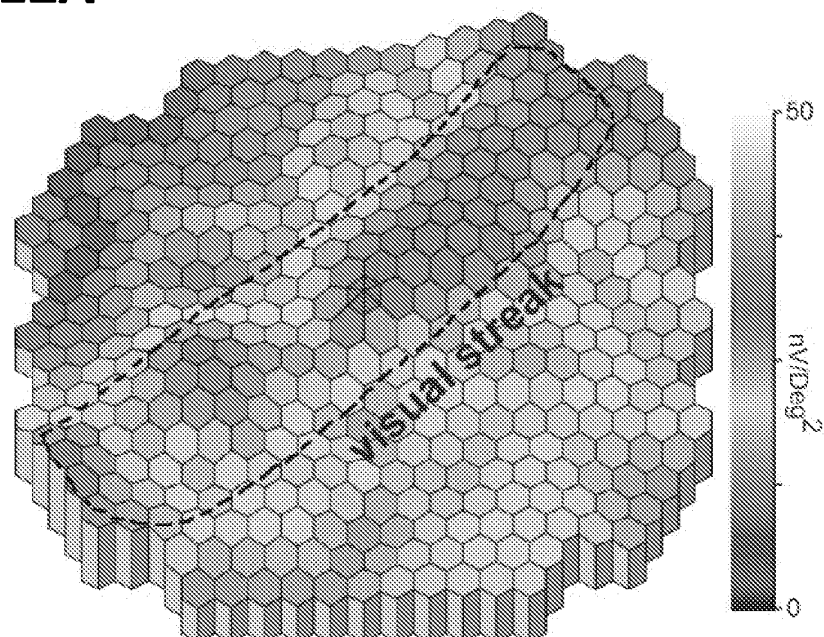
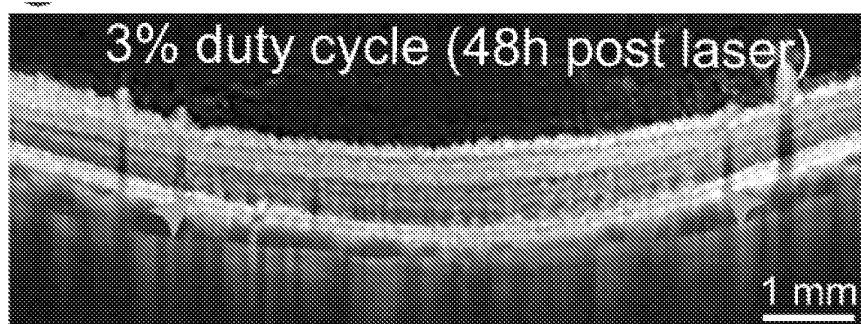
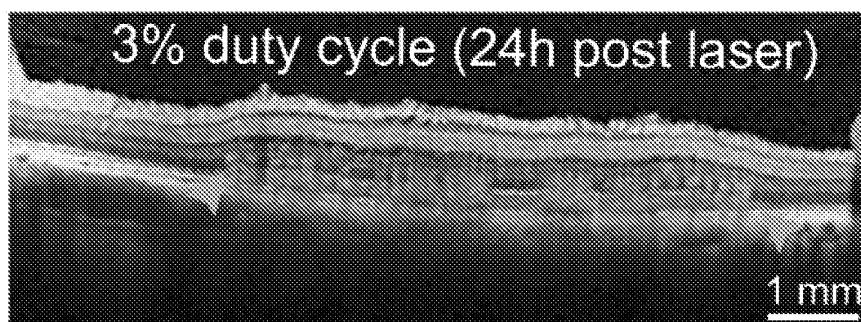


FIG. 12A pre-laser healthy areas**FIG. 12B****FIG. 12C**

SUBSTITUTE SHEET (RULE 26)

FIG. 12D

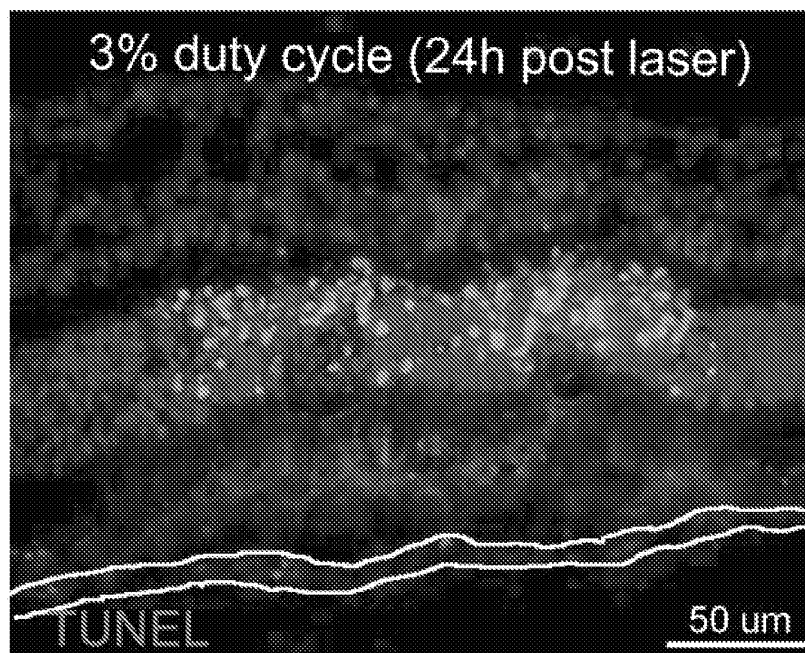
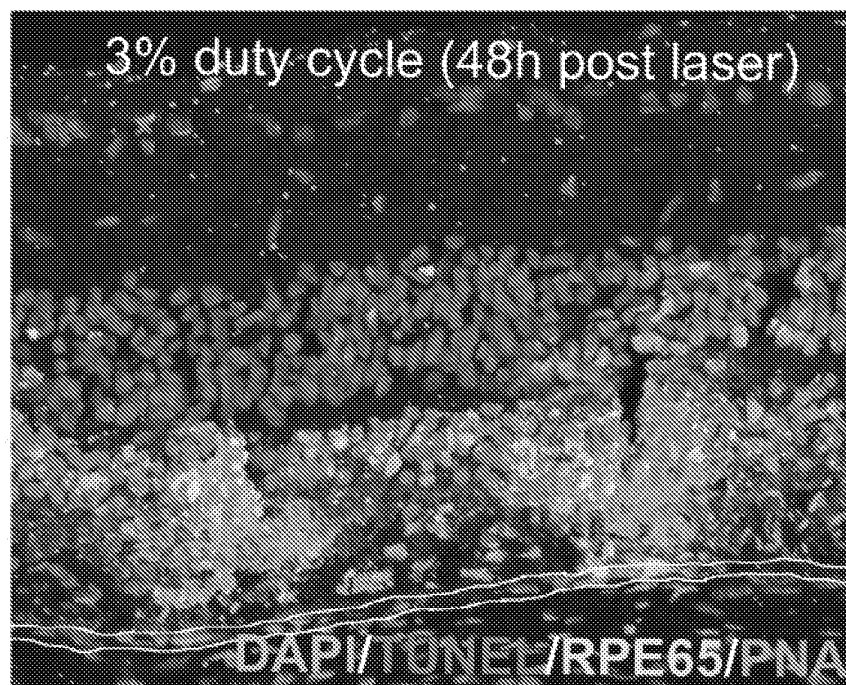
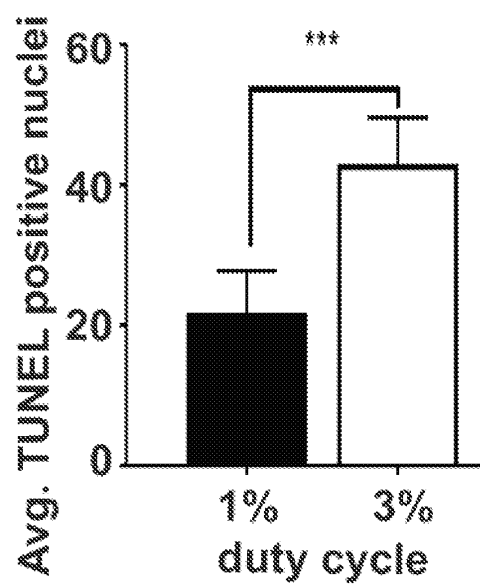
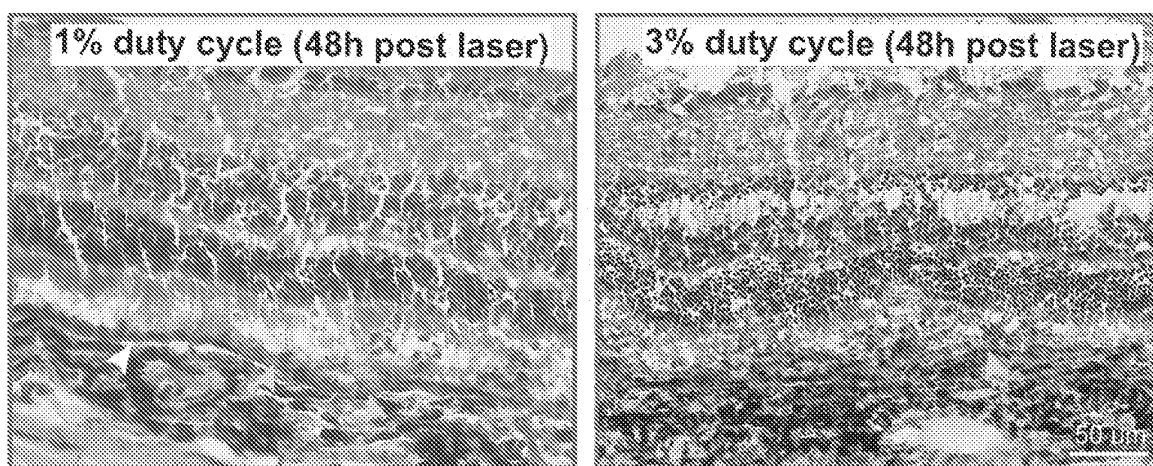


FIG. 12E



SUBSTITUTE SHEET (RULE 26)

FIG. 12F**FIG. 12G**

SUBSTITUTE SHEET (RULE 26)

FIG. 13B

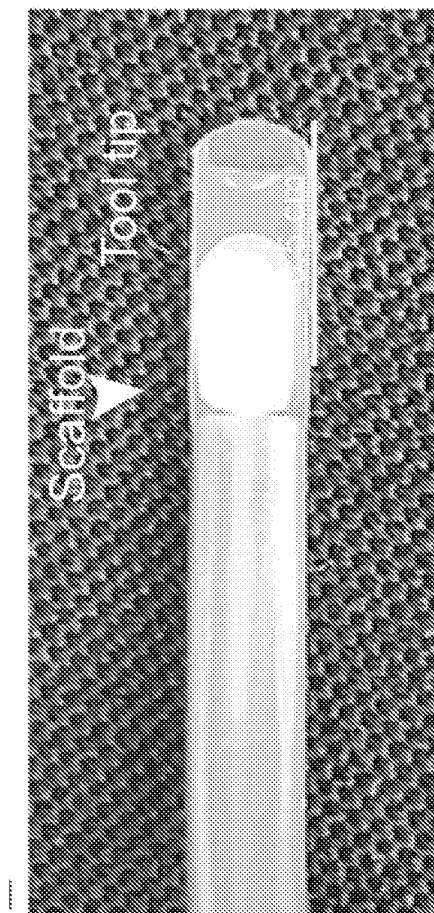


FIG. 13A

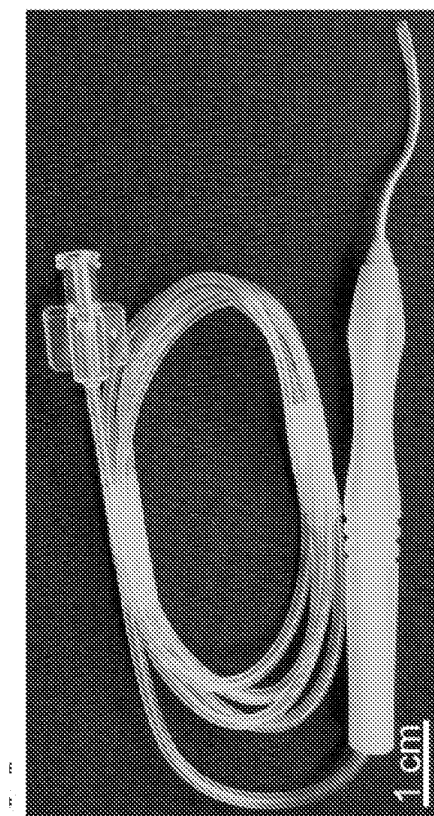


FIG. 13D

Retinotomy

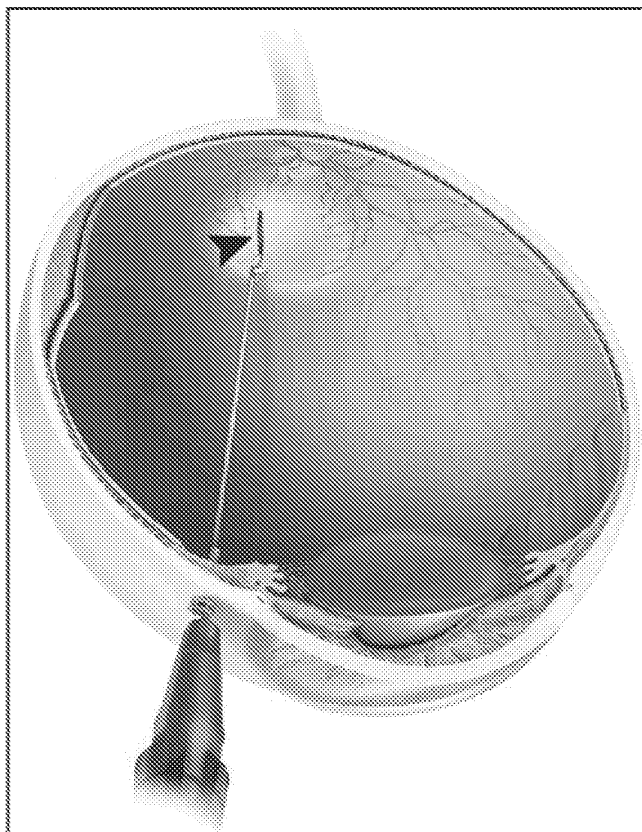
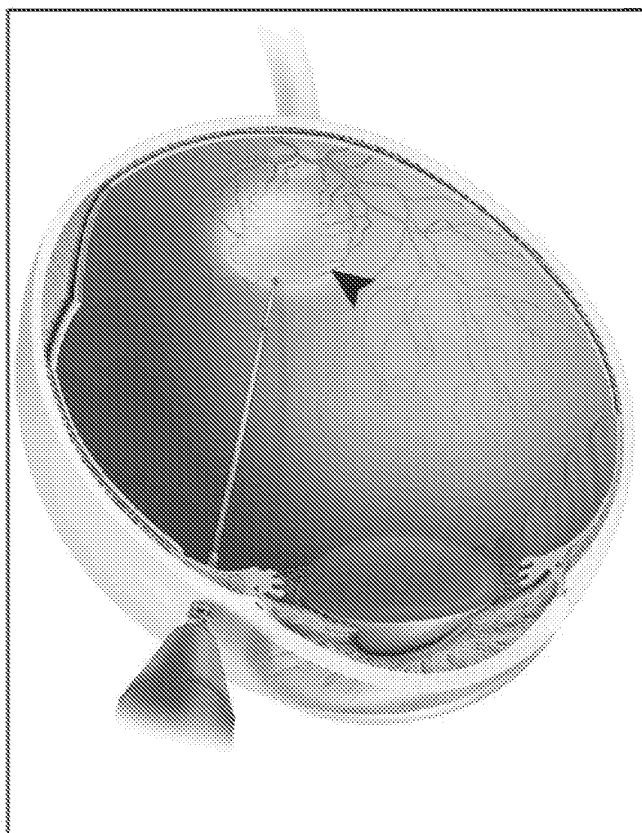


FIG. 13C

Retinal detachment



SUBSTITUTE SHEET (RULE 26)

FIG. 13F

Subretinal transplantation

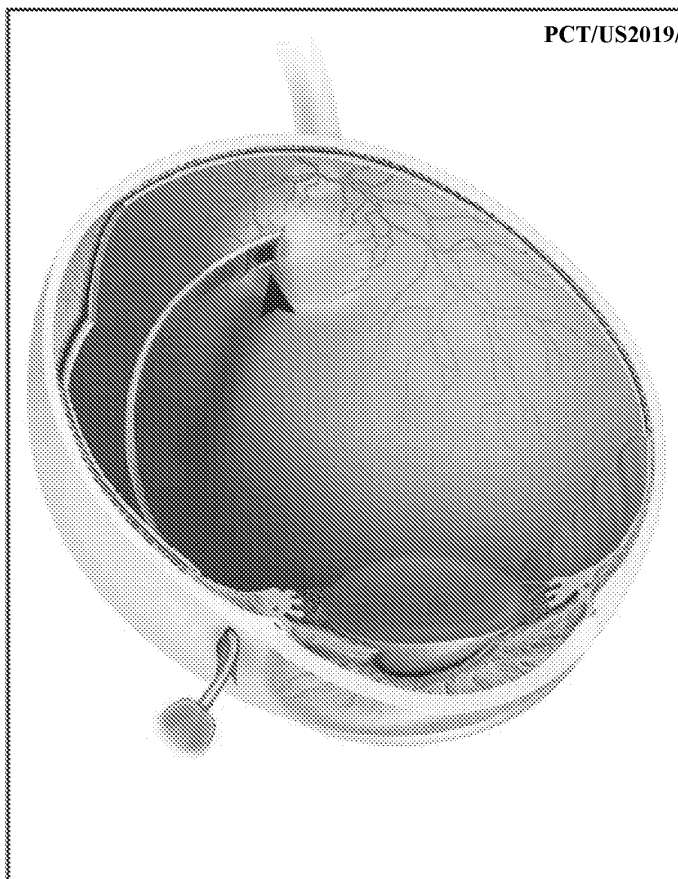
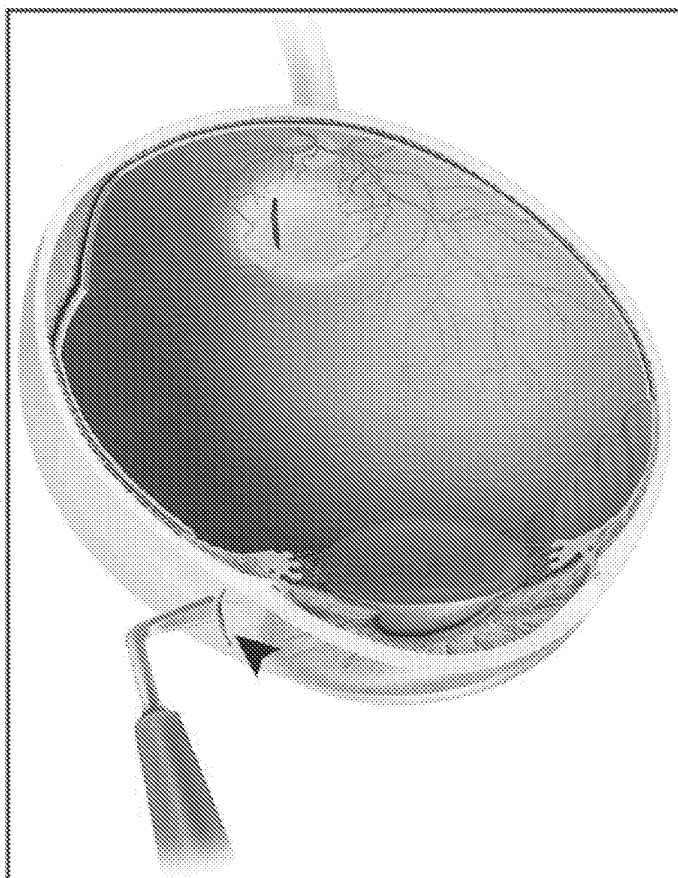


FIG. 13E

Enlarging sclerotomy



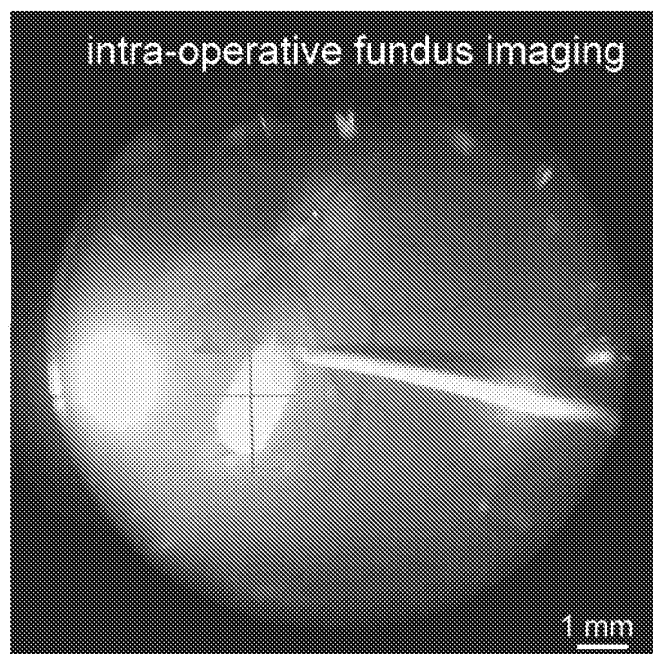
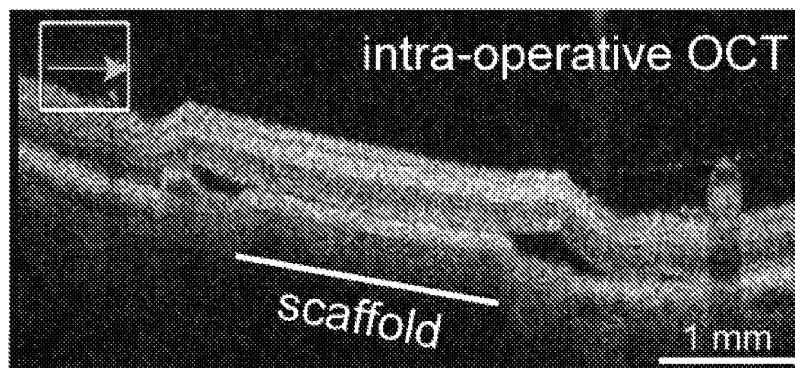
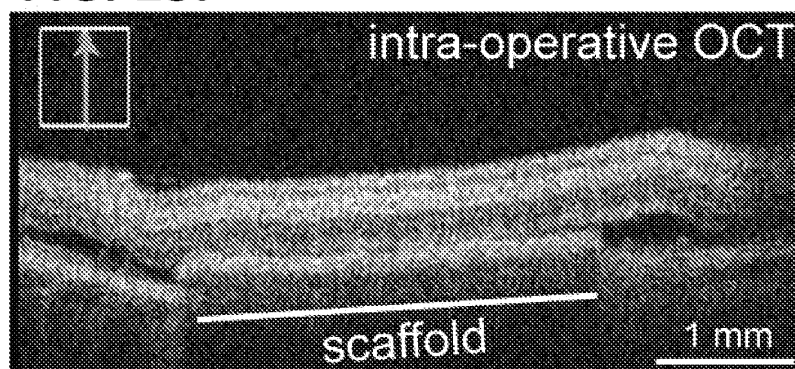
**FIG. 13H****FIG. 13I**

FIG. 13K

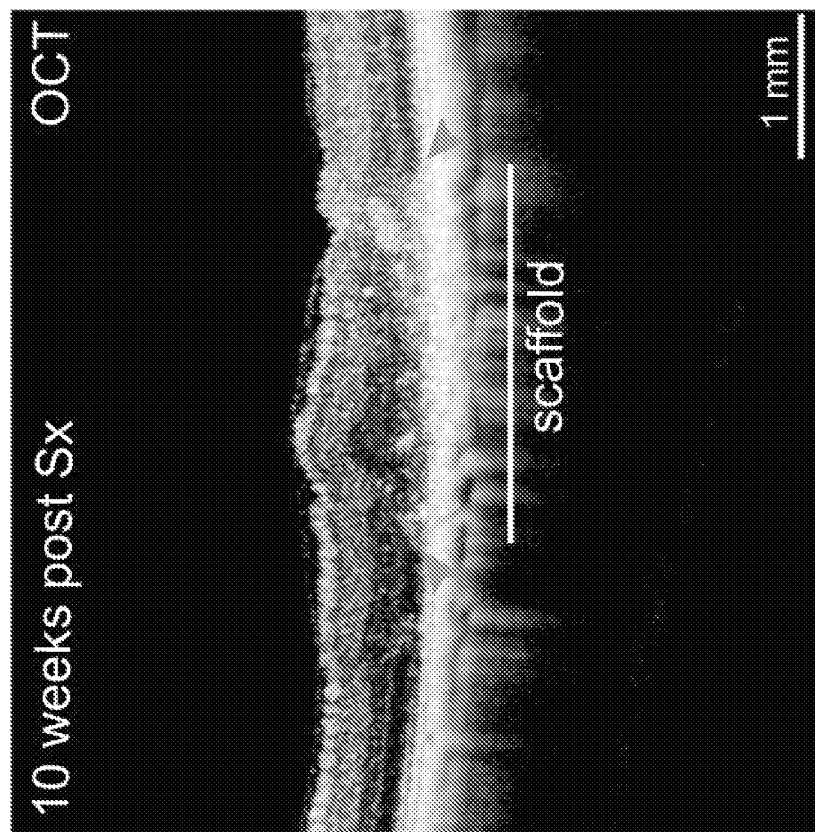


FIG. 13J

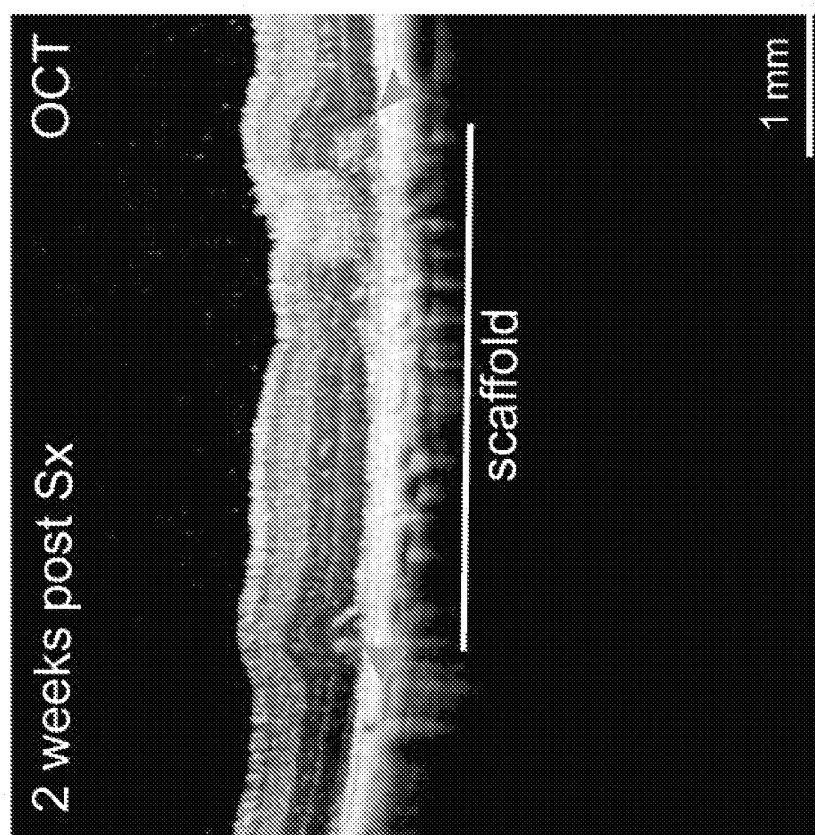
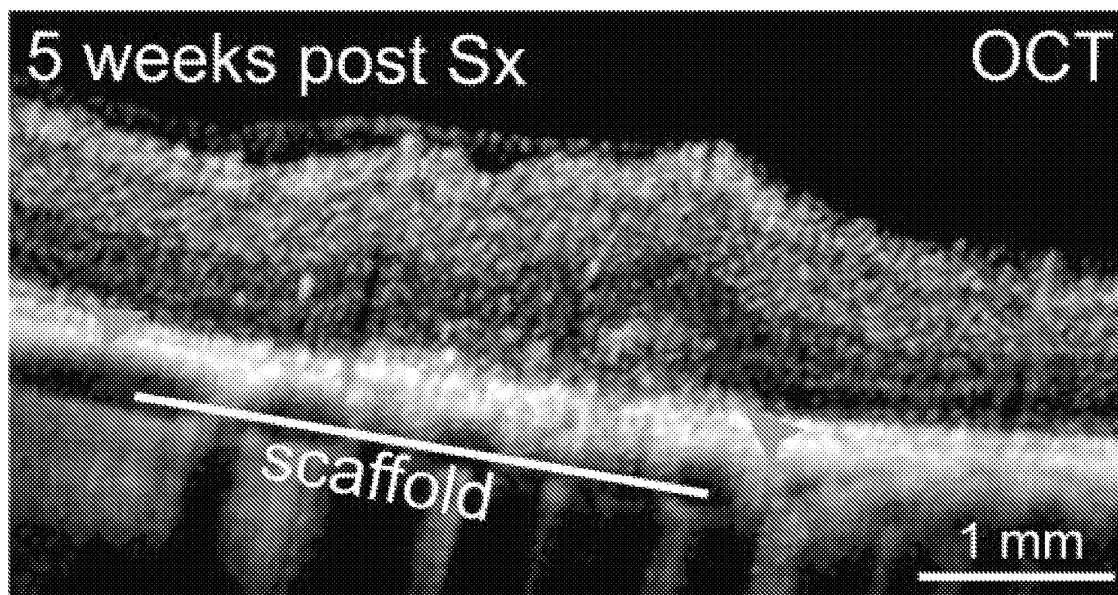
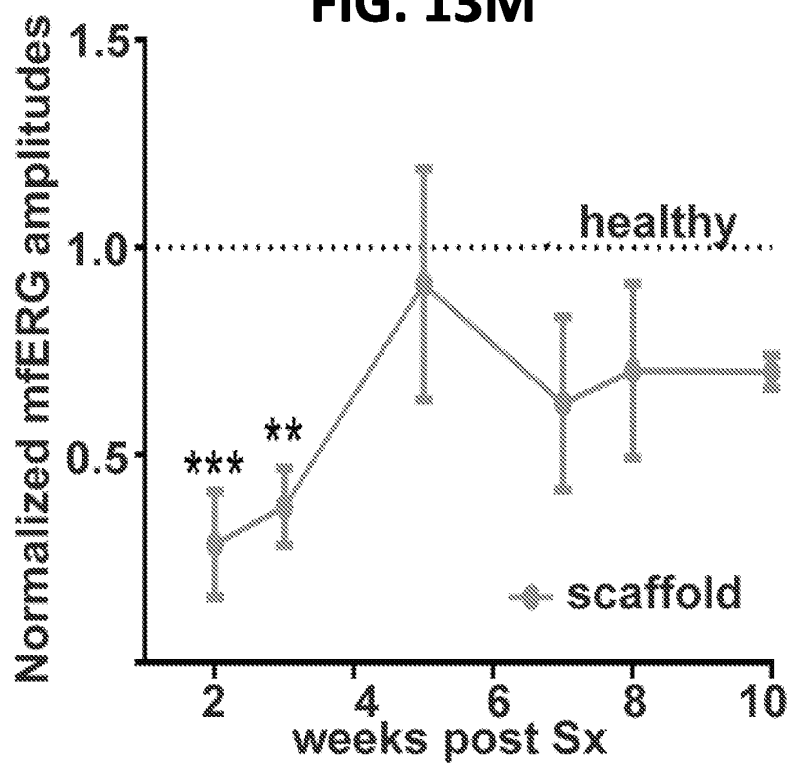


FIG. 13L**FIG. 13M**

SUBSTITUTE SHEET (RULE 26)

FIG. 14A

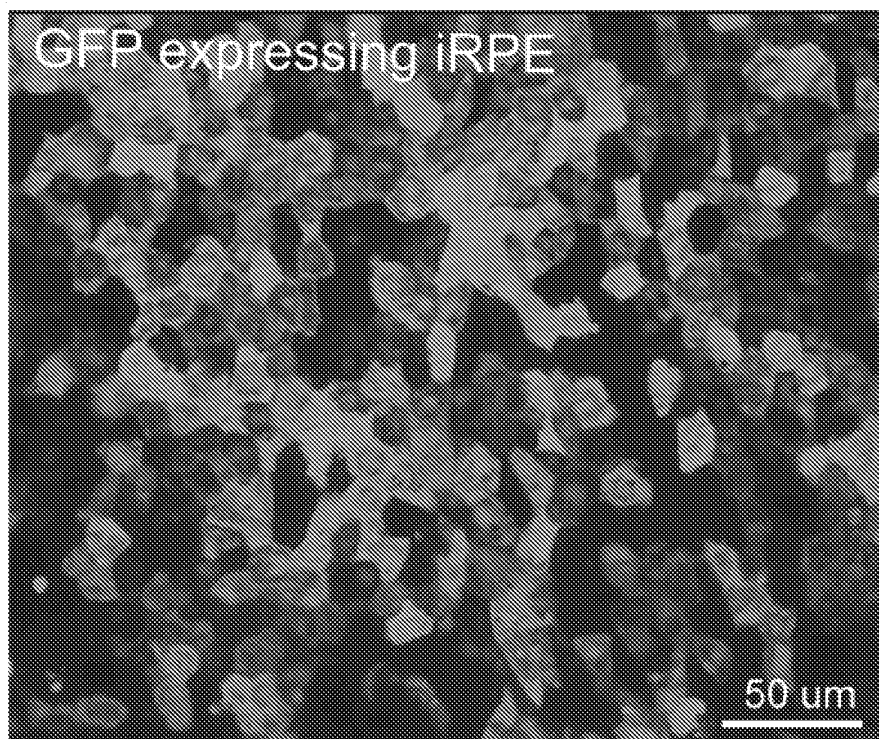


FIG. 14B

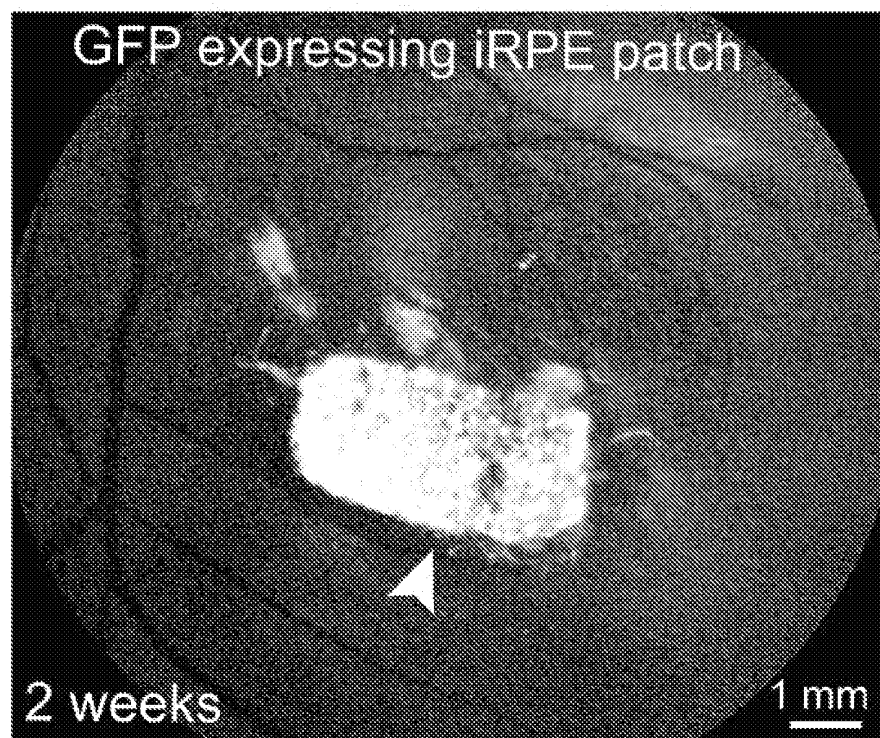
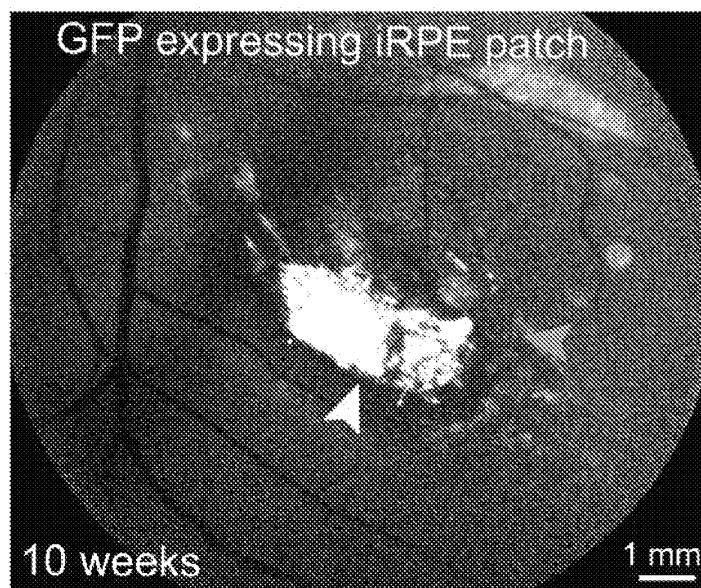
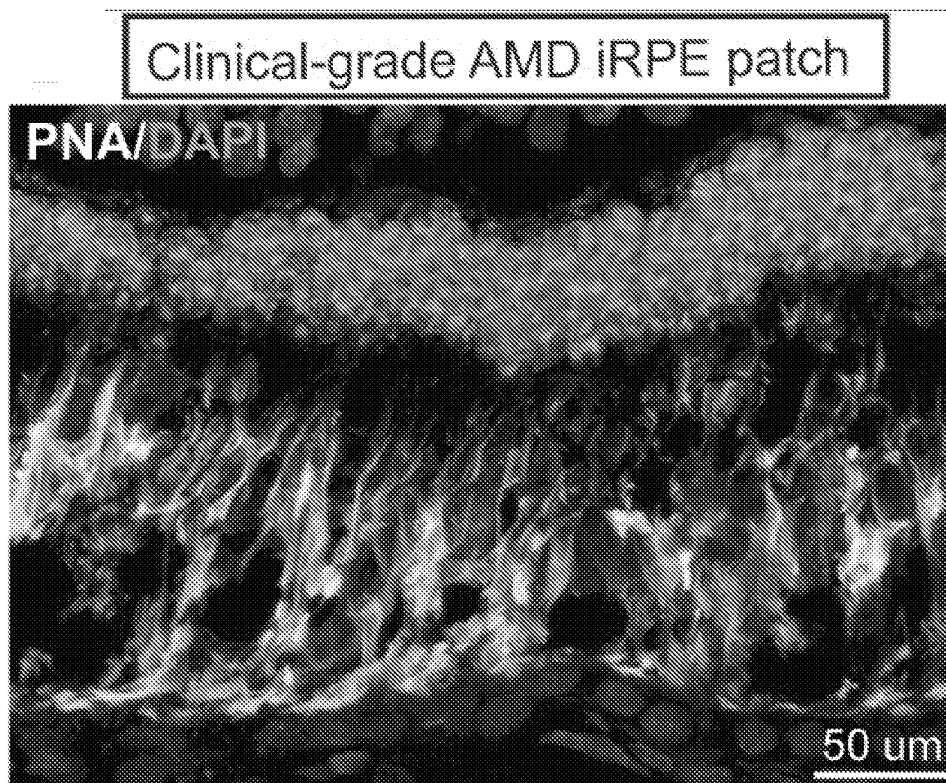


FIG. 14C**FIG. 14D**

SUBSTITUTE SHEET (RULE 26)

FIG. 14F

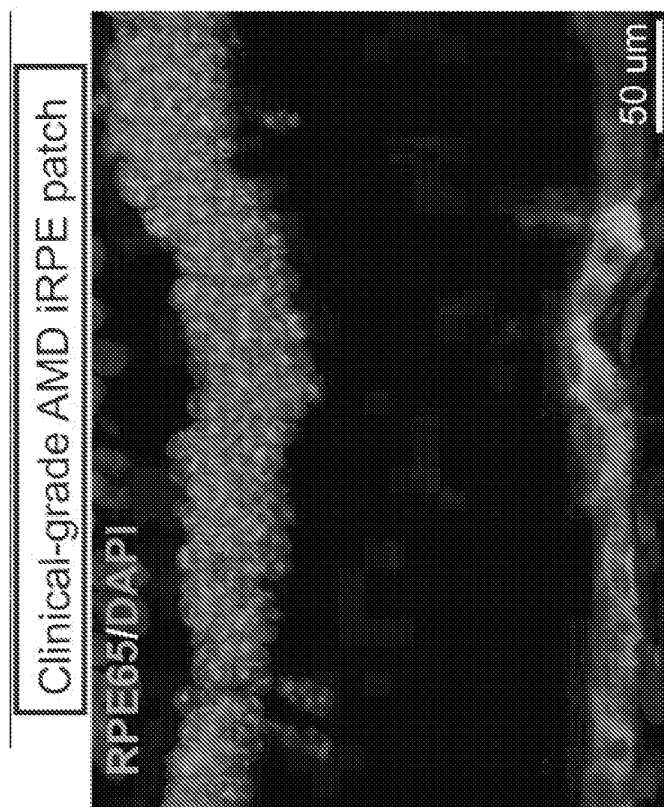
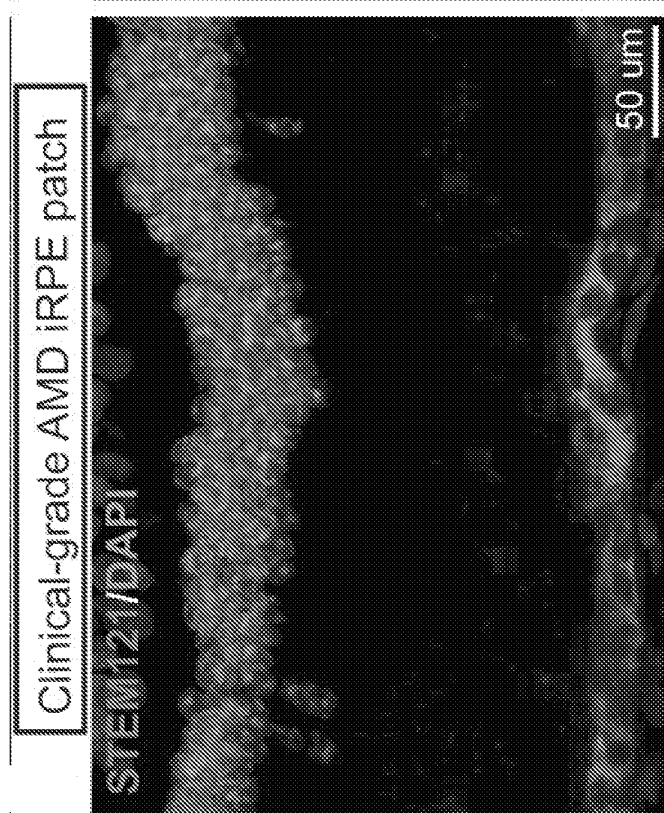
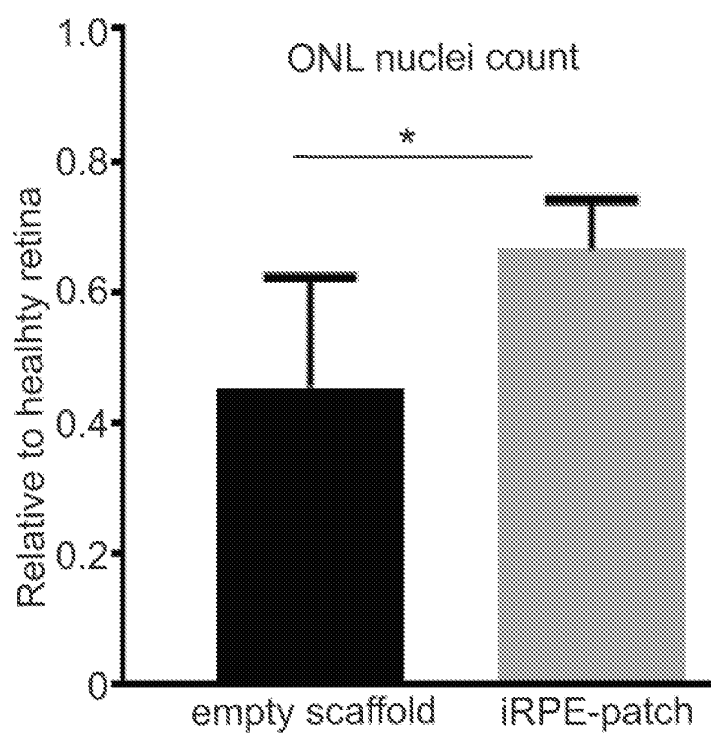
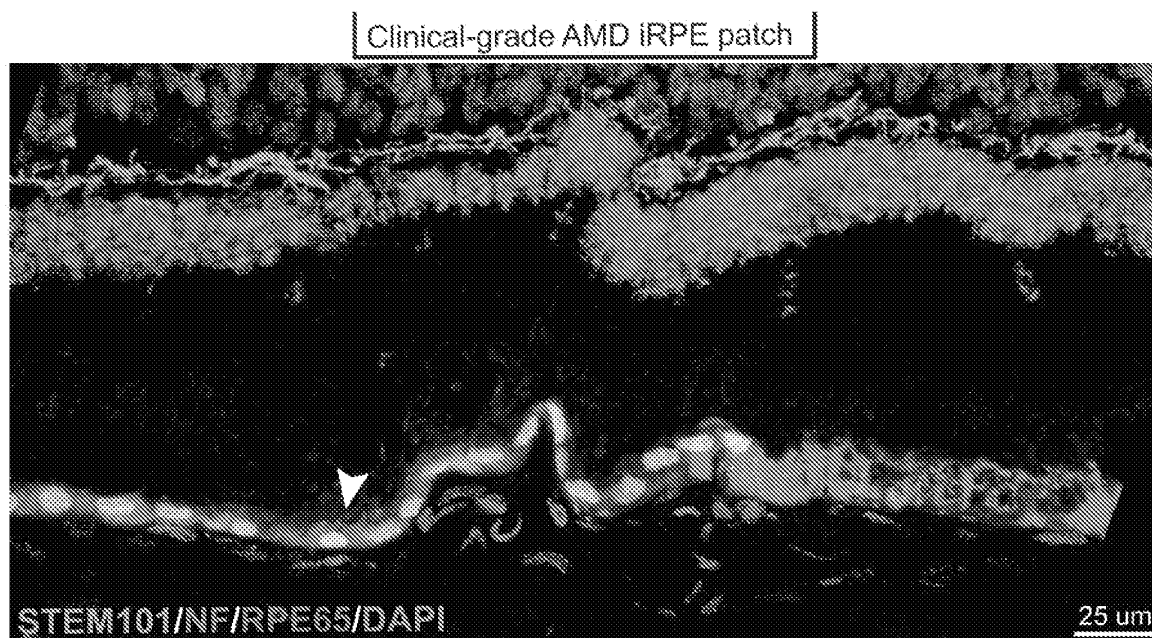


FIG. 14E



SUBSTITUTE SHEET (RULE 26)

FIG. 14G**FIG. 14H**

SUBSTITUTE SHEET (RULE 26)

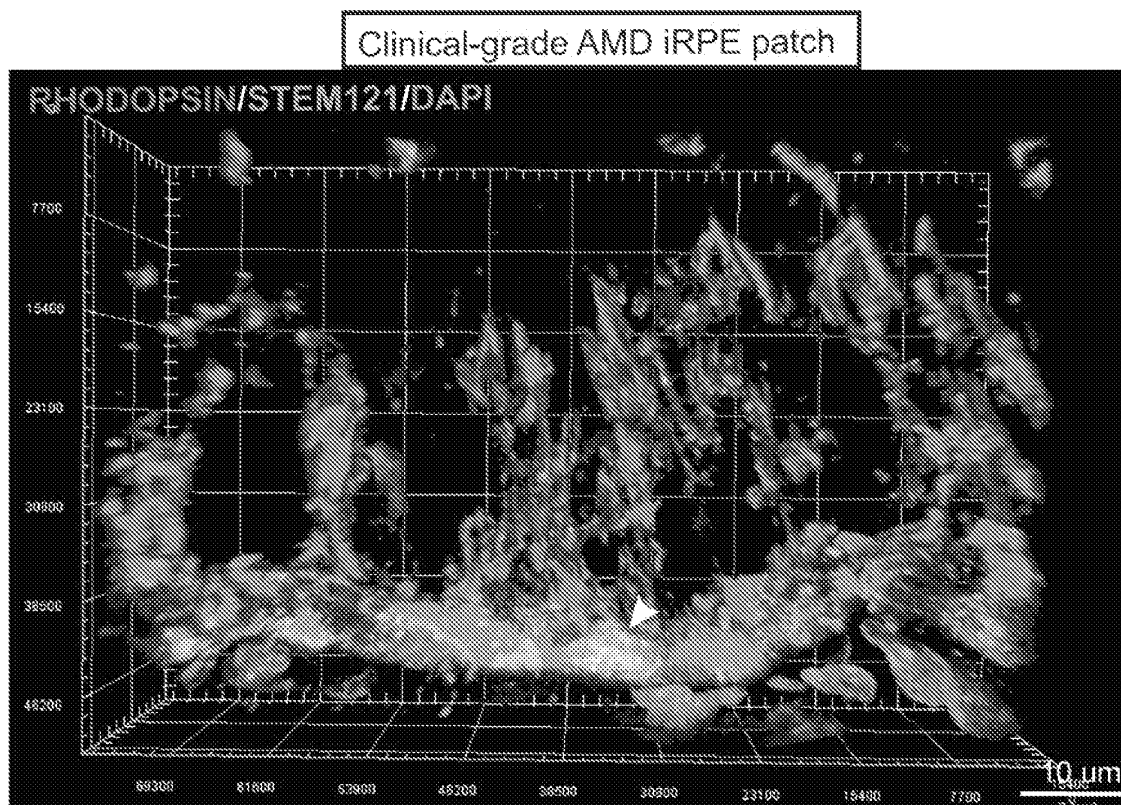
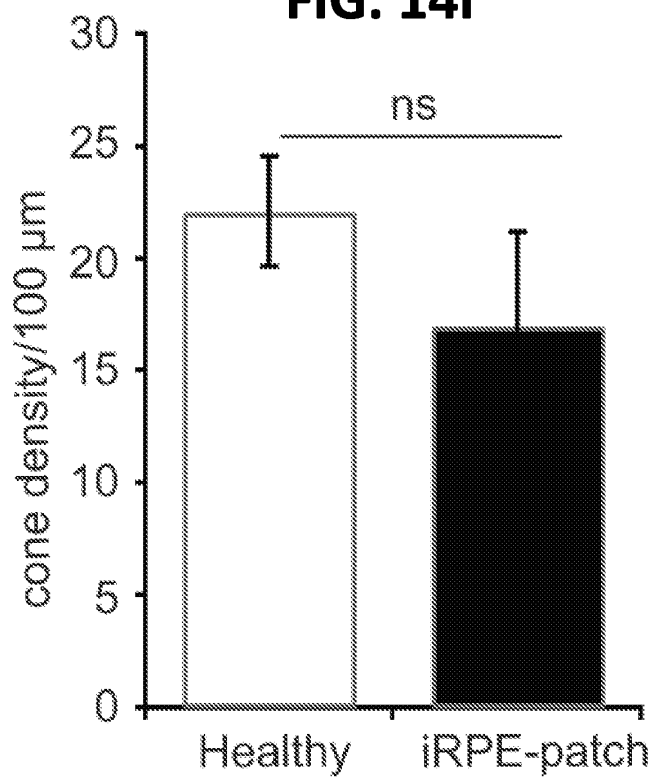
FIG. 14I

FIG. 15A

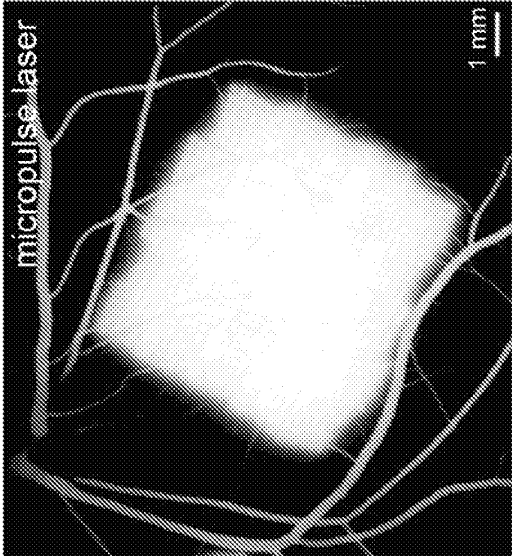


FIG. 15B

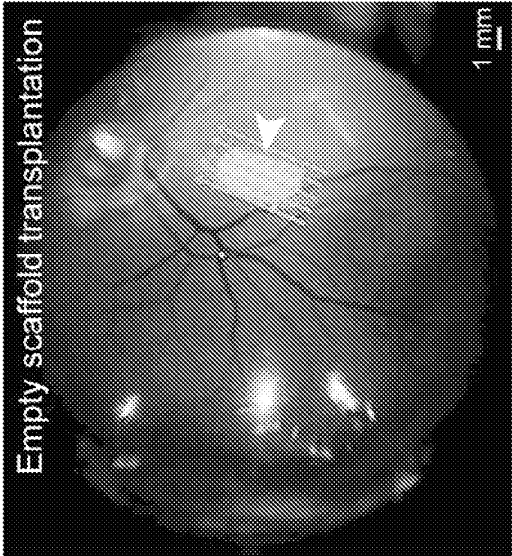


FIG. 15C

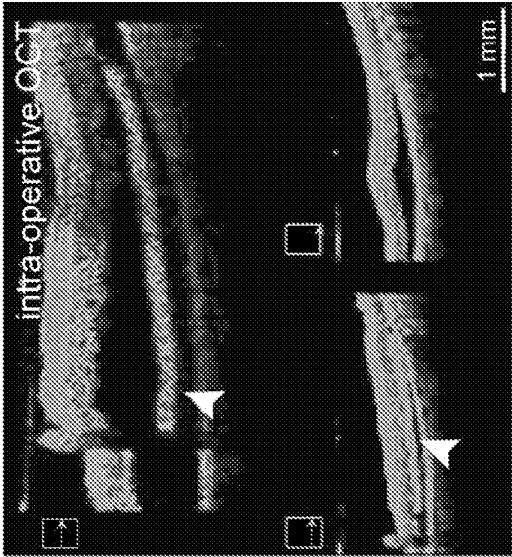


FIG. 15D

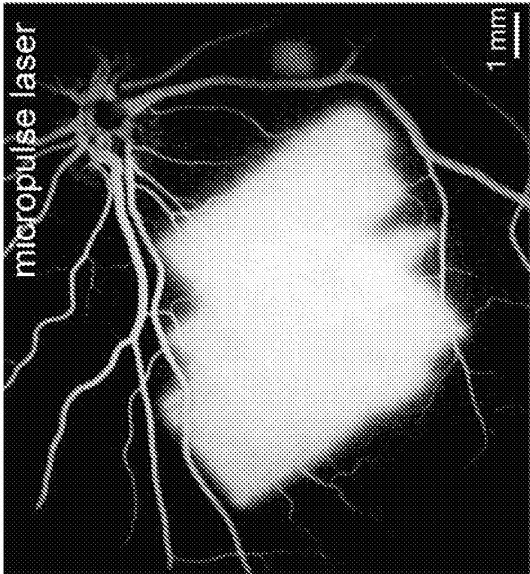


FIG. 15E

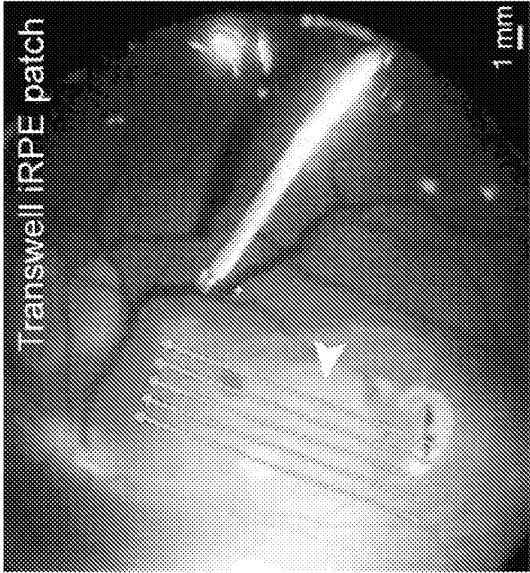


FIG. 15F

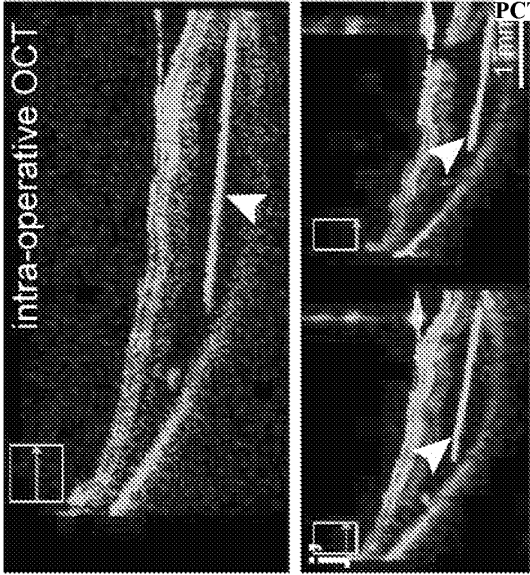


FIG. 15I

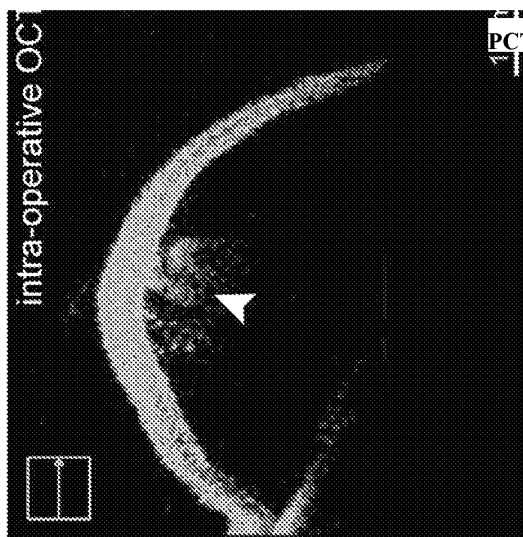


FIG. 15H

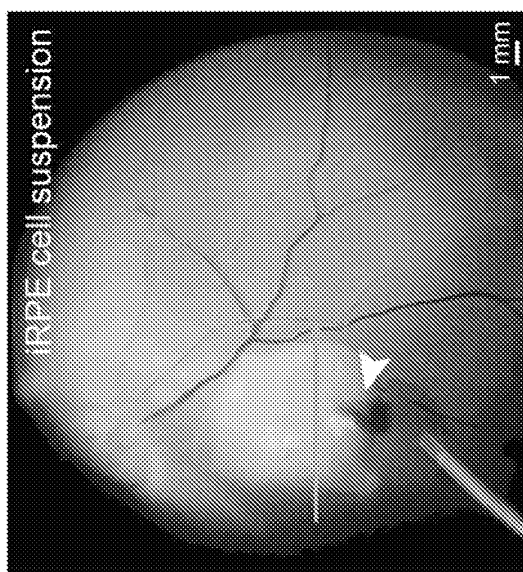


FIG. 15G

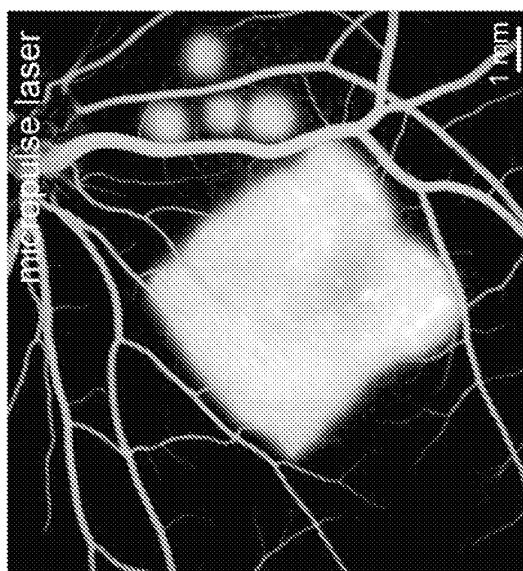


FIG. 15J

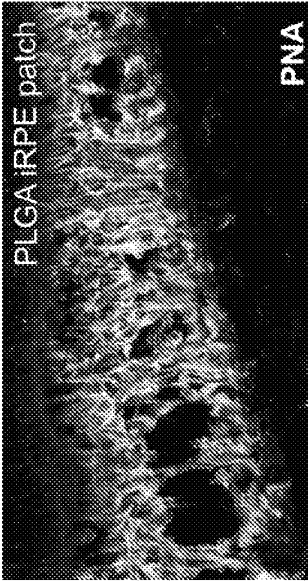


FIG. 15K

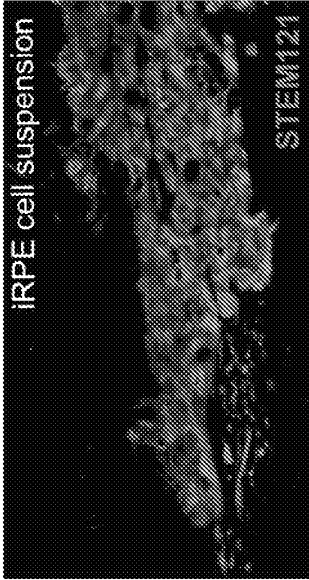
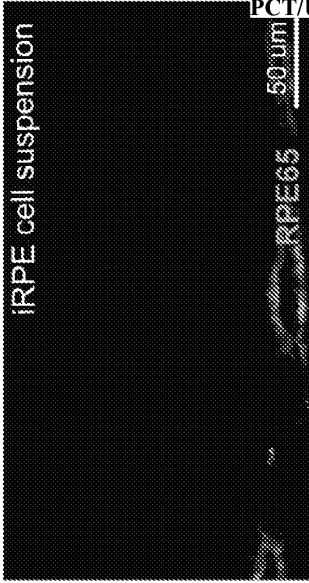


FIG. 15L



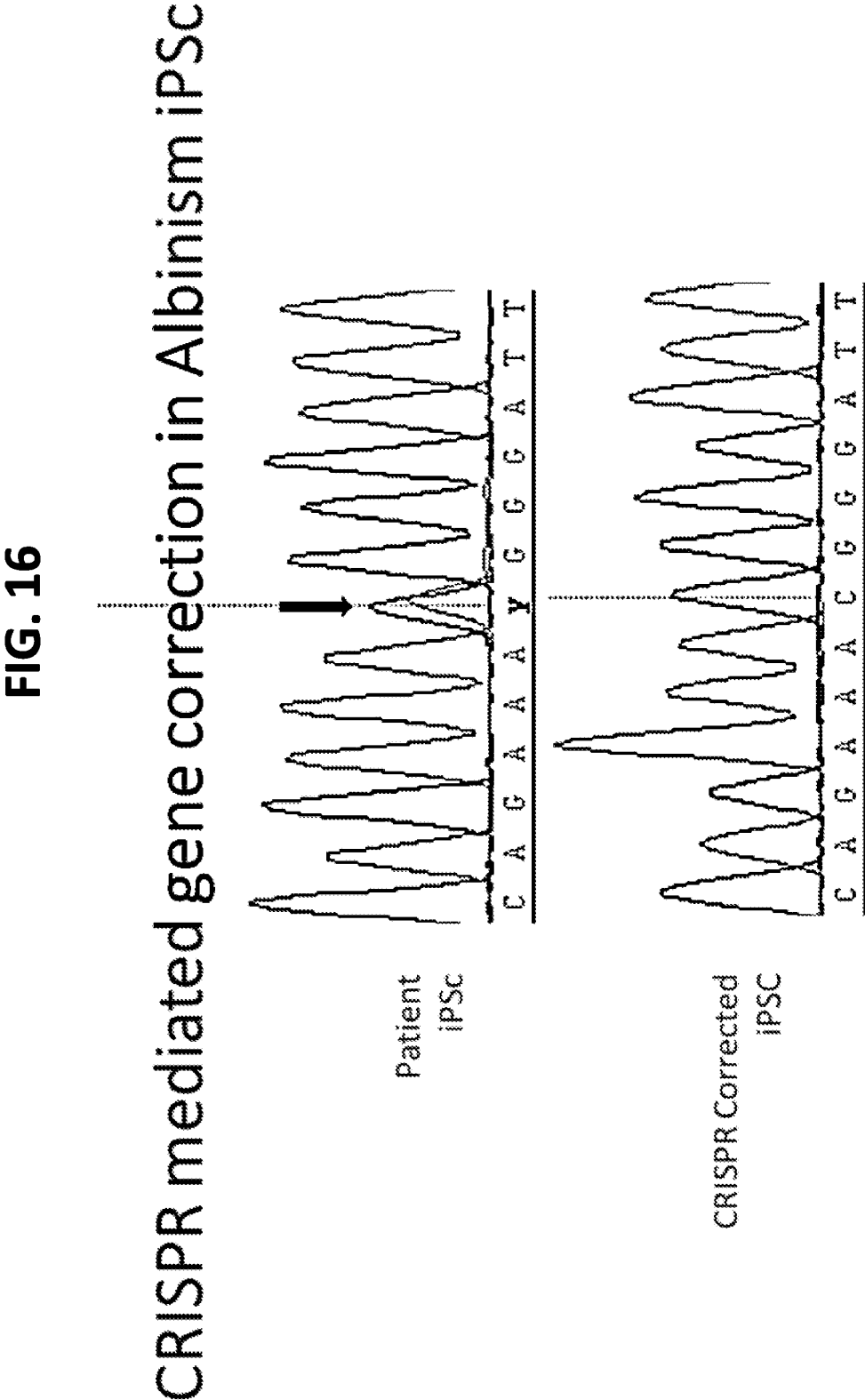
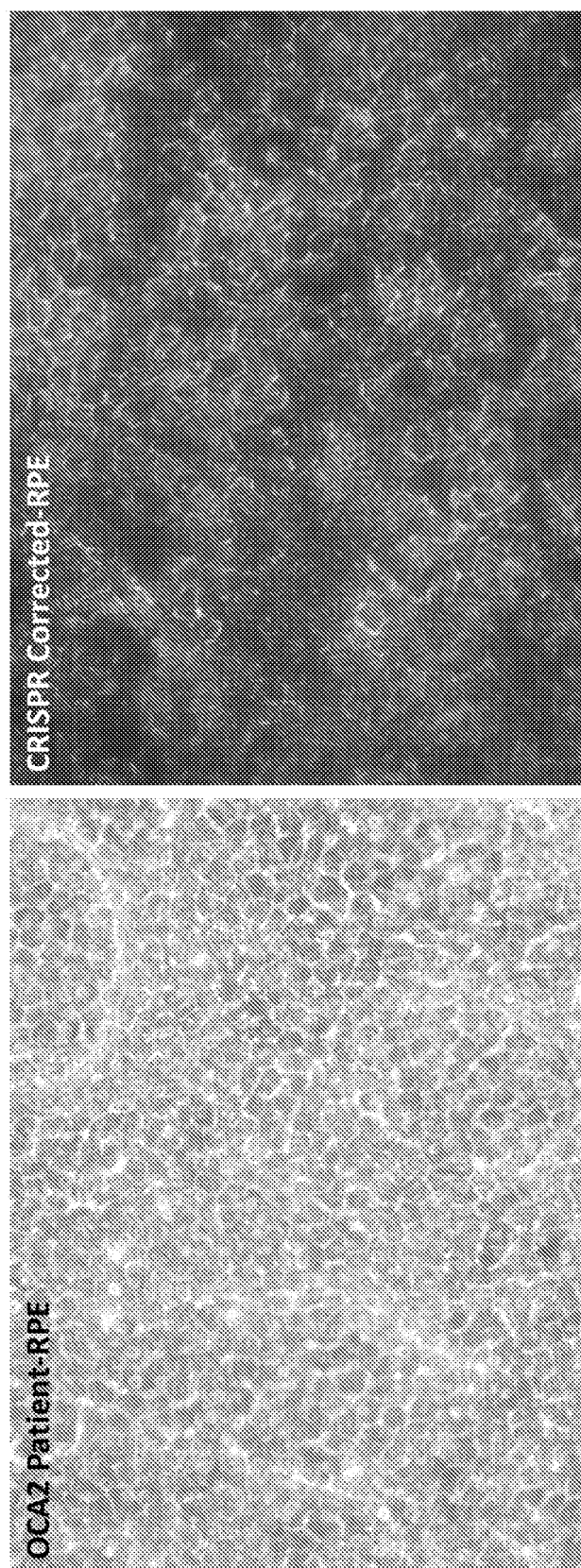


FIG. 17



SUBSTITUTE SHEET (RULE 26)

FIG. 18

