

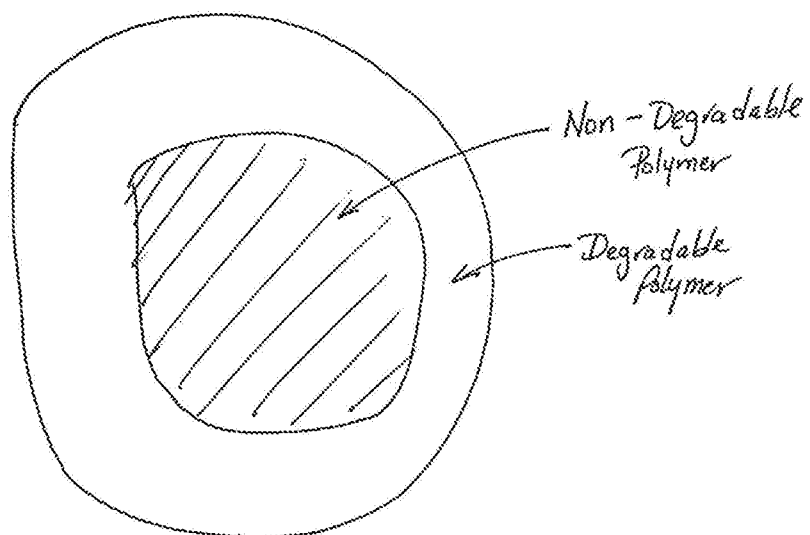


FIG. 1

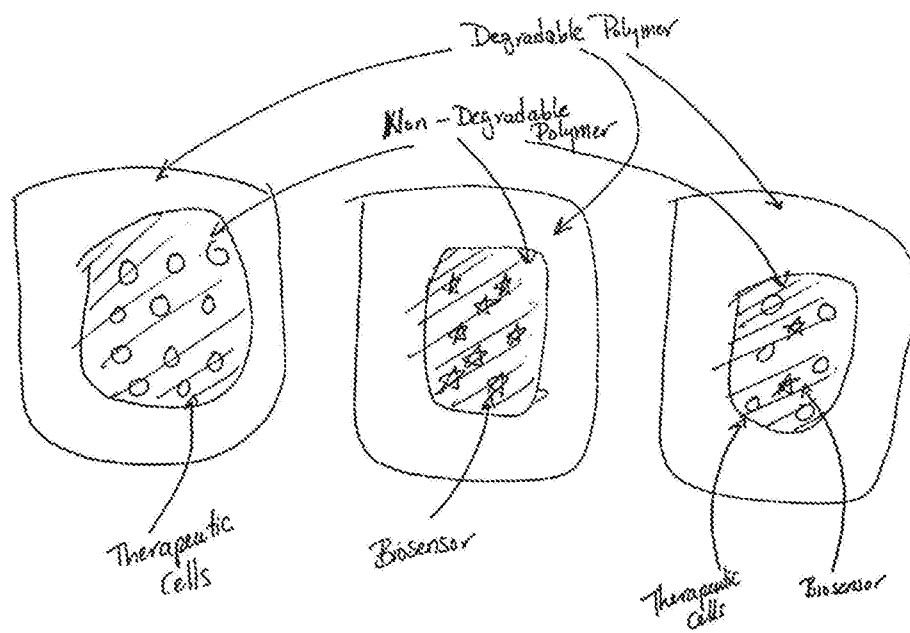
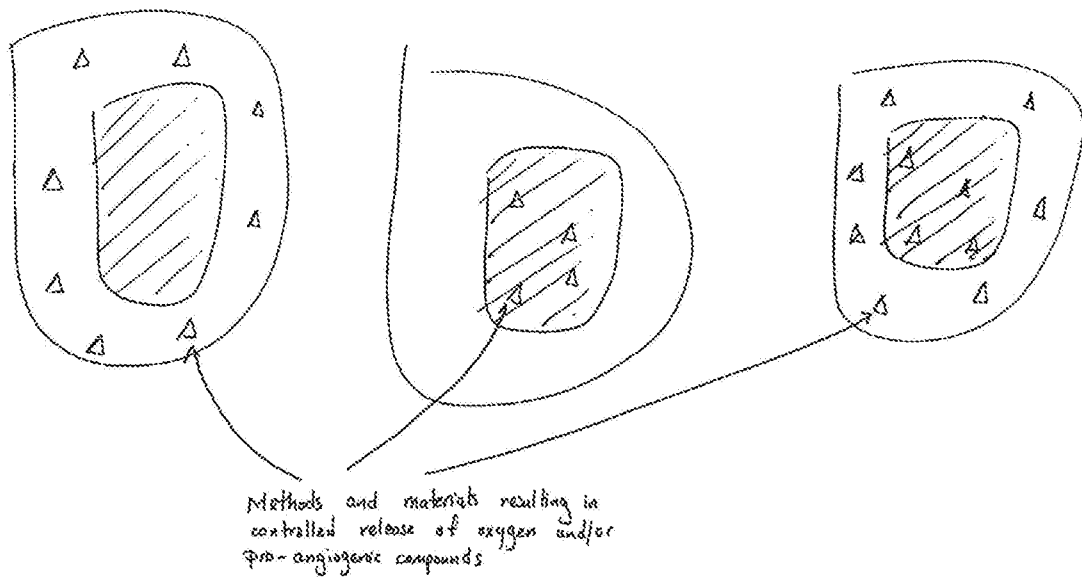
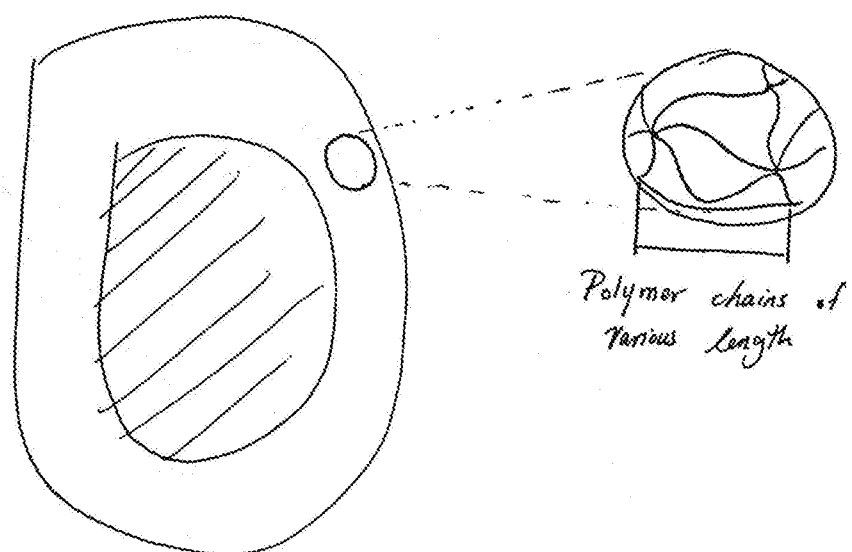


FIG. 2

**FIG. 3**

**FIG. 4**

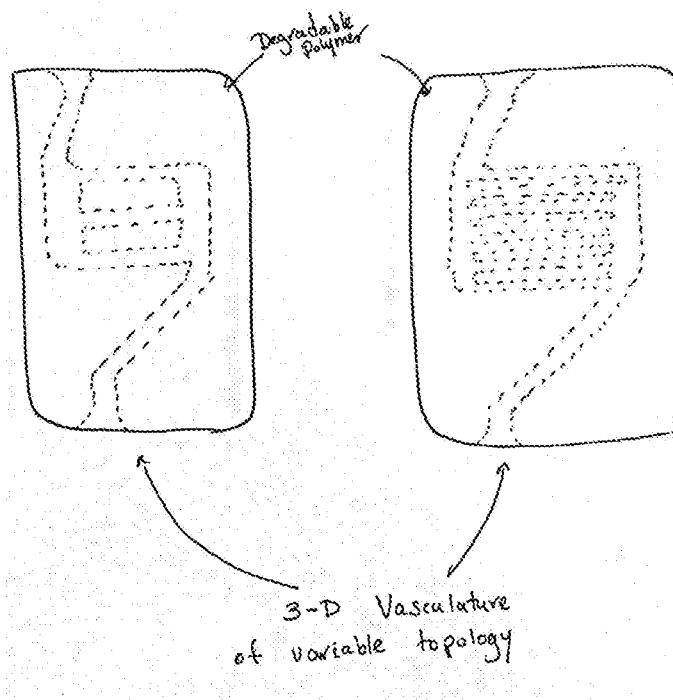


FIG. 5

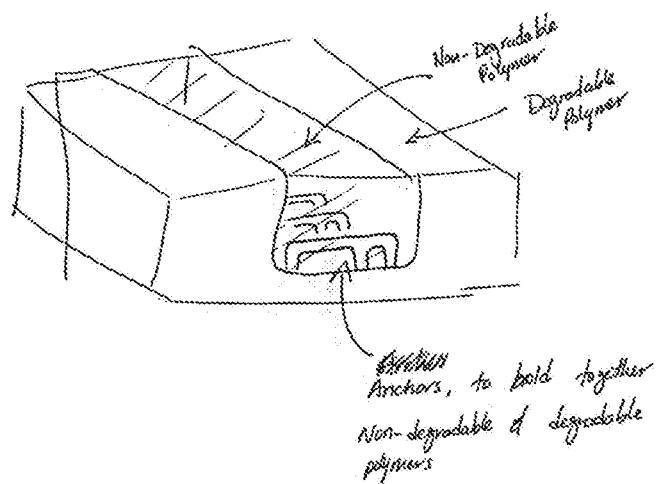


FIG. 6

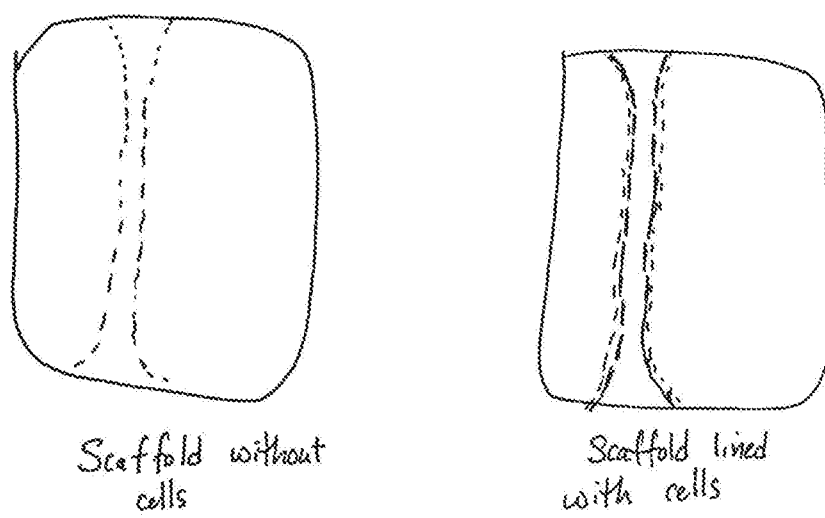


FIG. 7

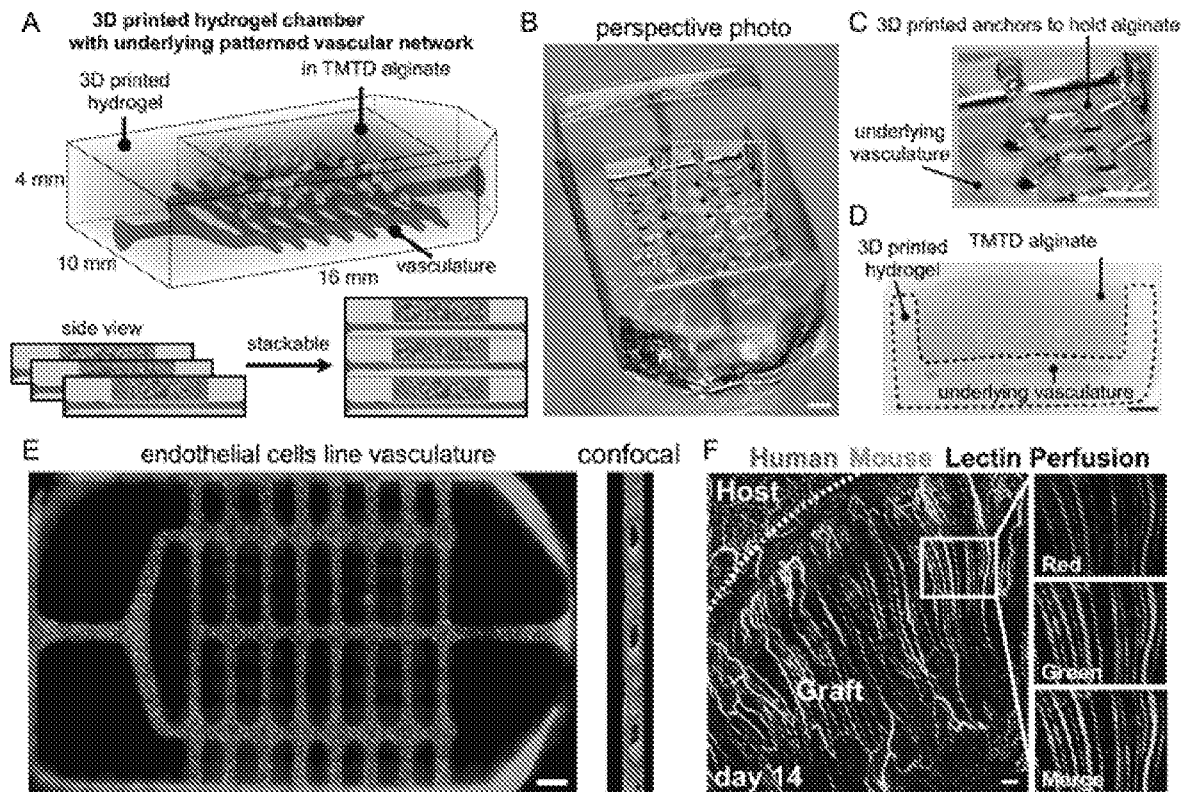
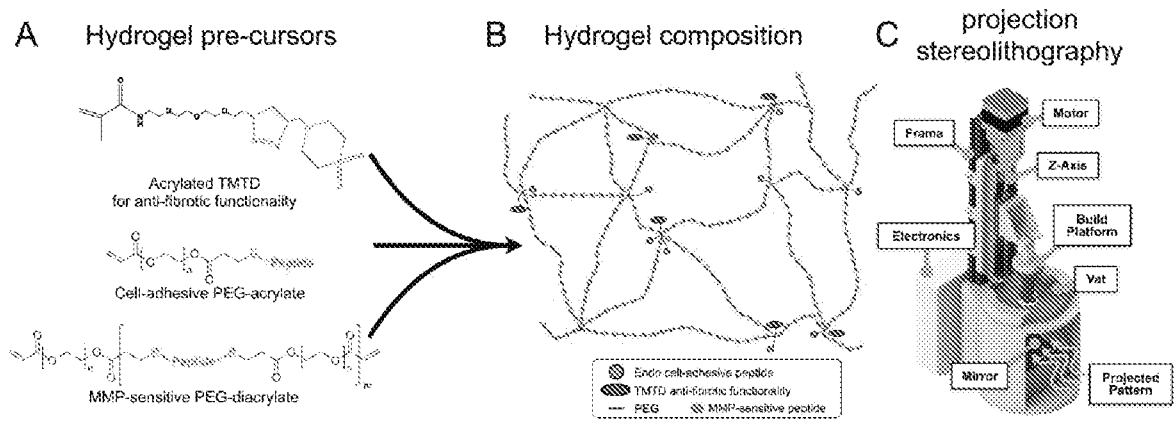
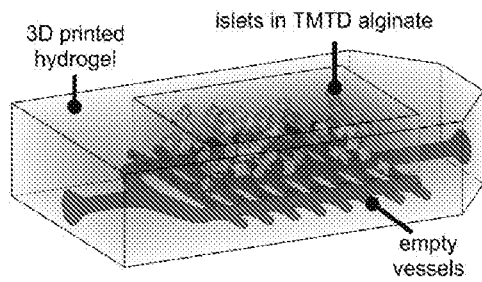


FIG. 8

**FIG. 9**

islets in TMTD alginate in chambered gel,
with hollow vessels



islets in TMTD alginate in chambered gel,
with endothelialized vessels

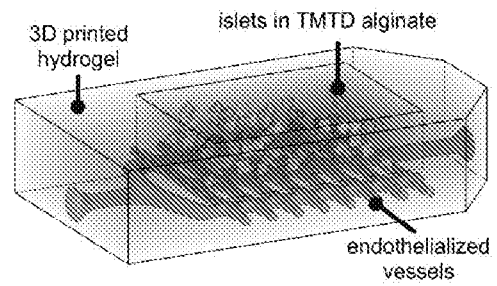


FIG. 10

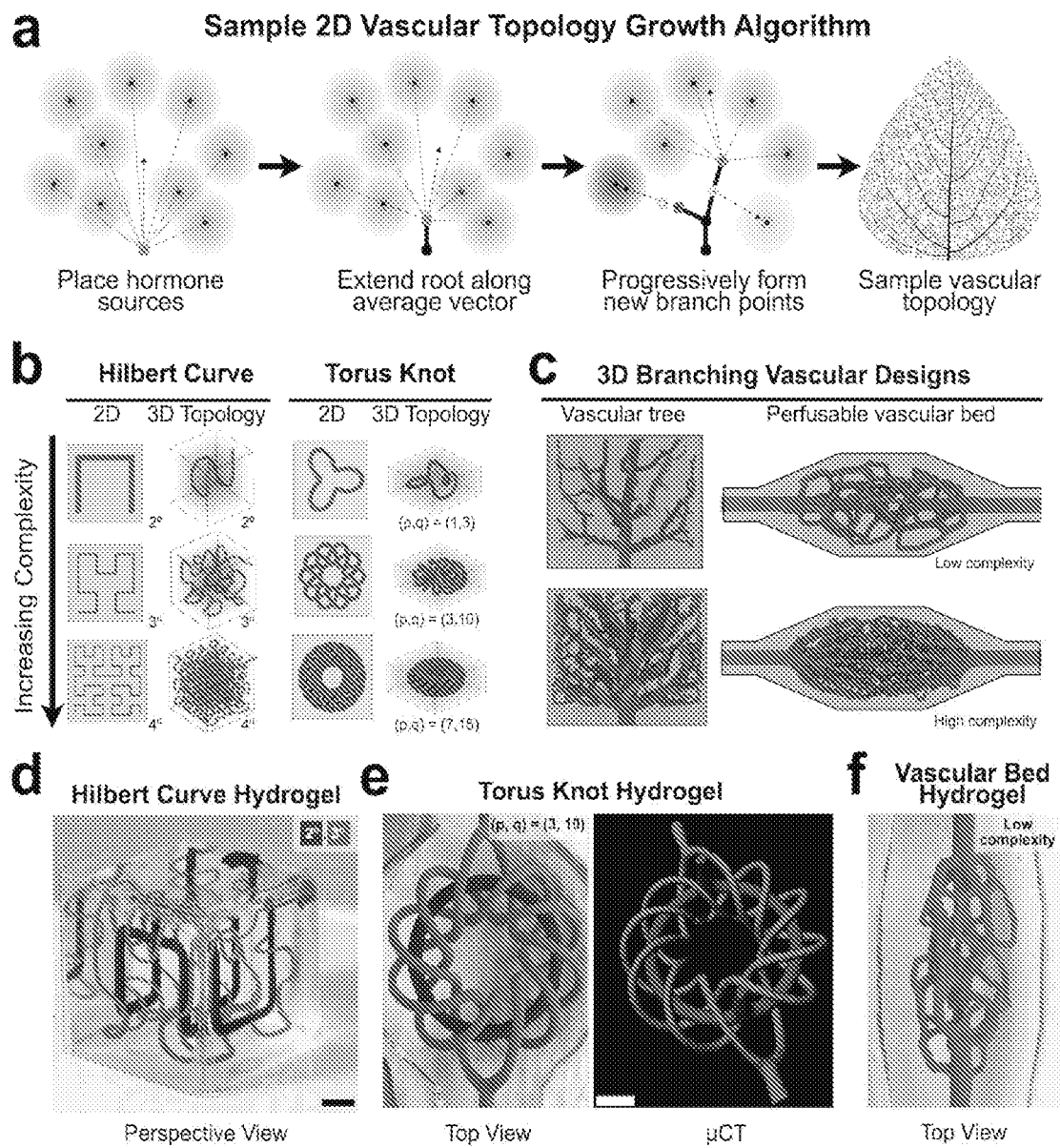


FIG. 11

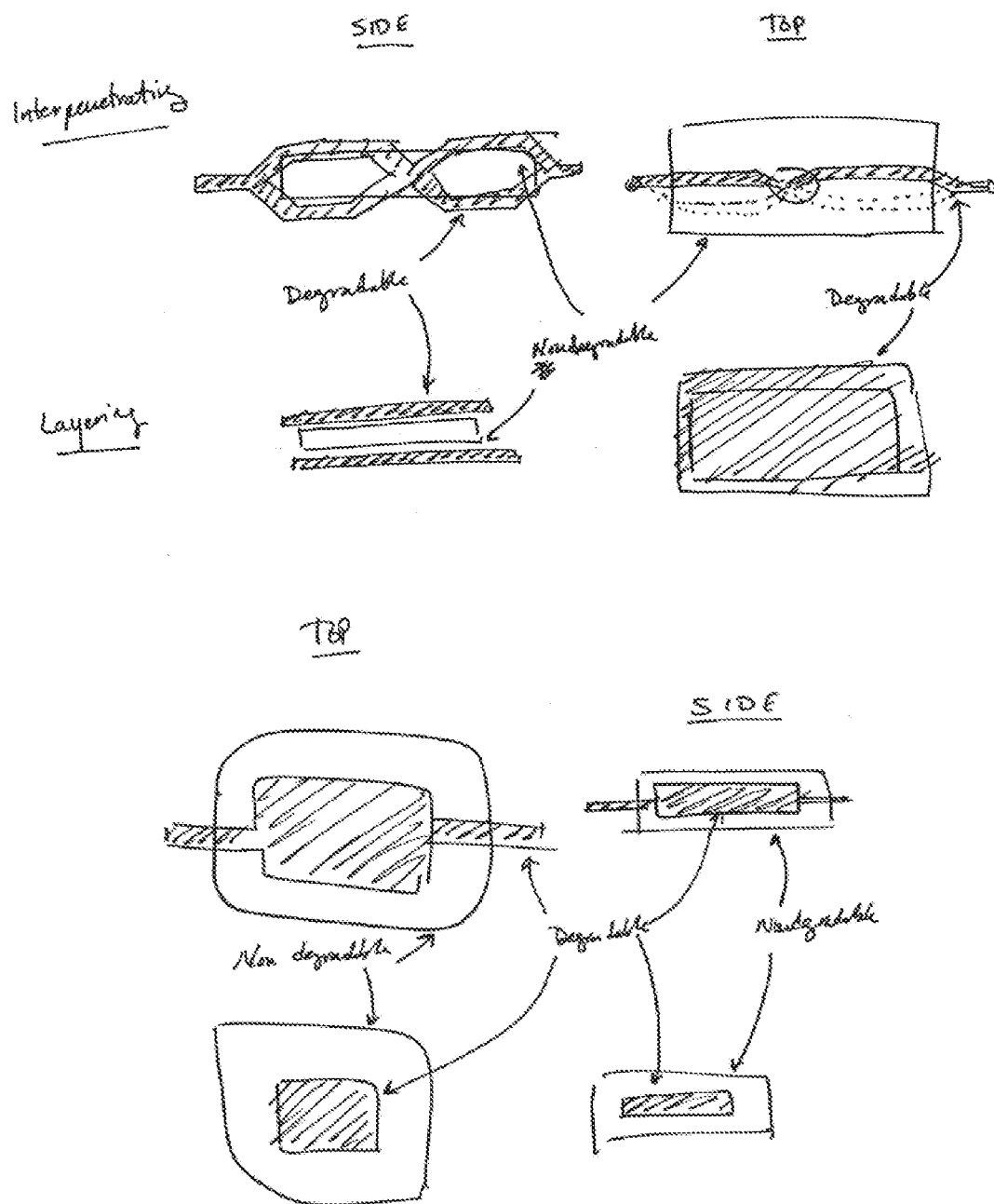


FIG. 12

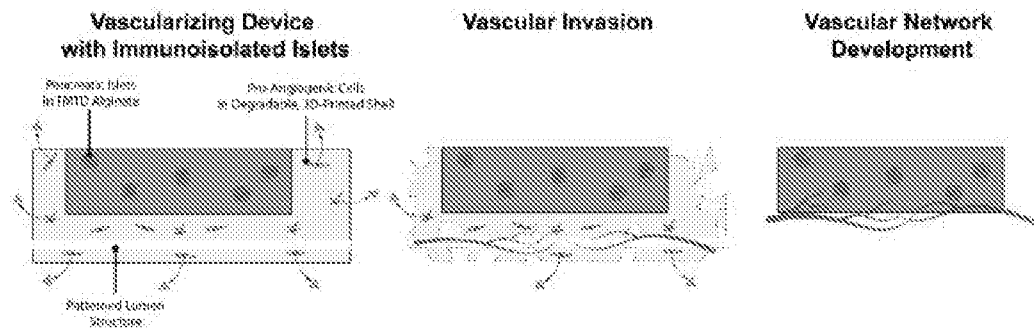
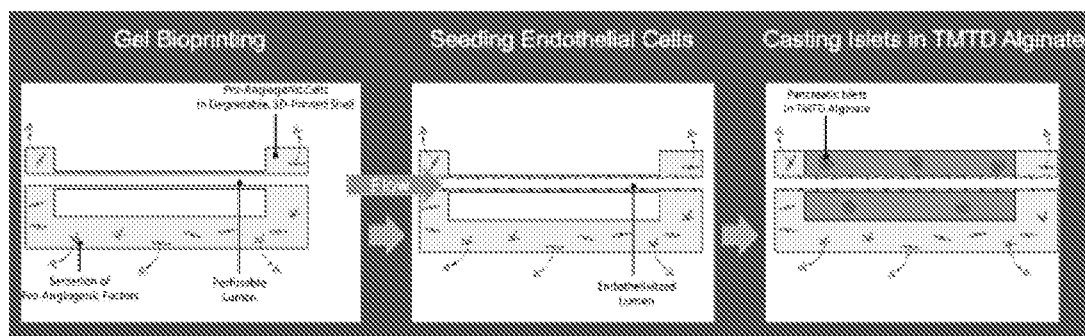
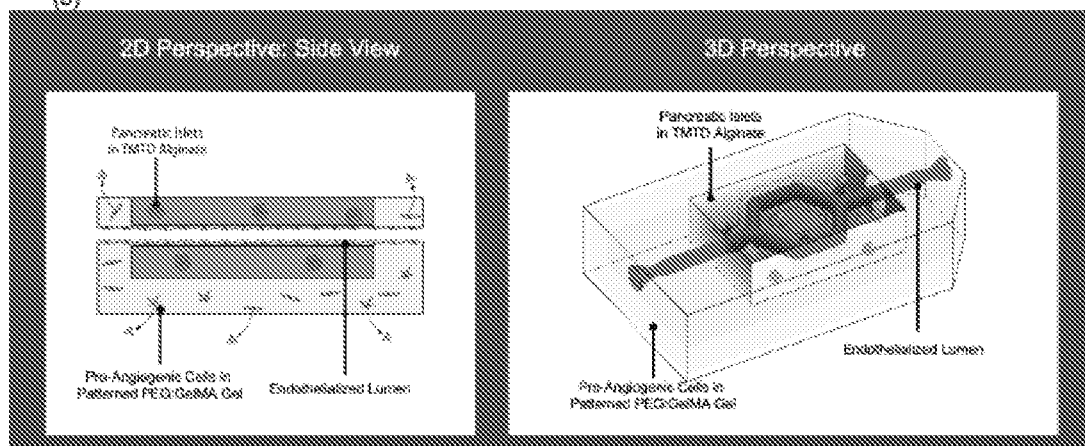


FIG. 13

(a)



(b)



FIGS. 14A-B

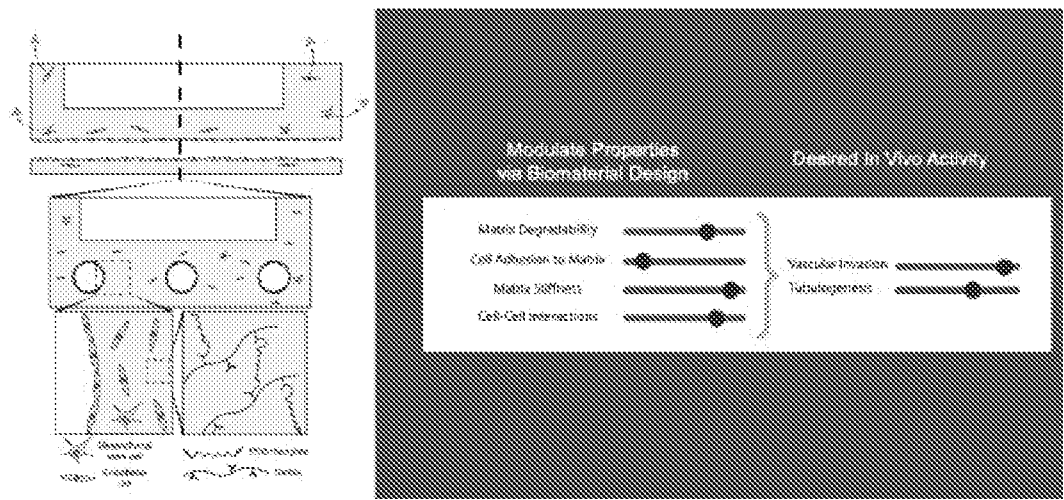
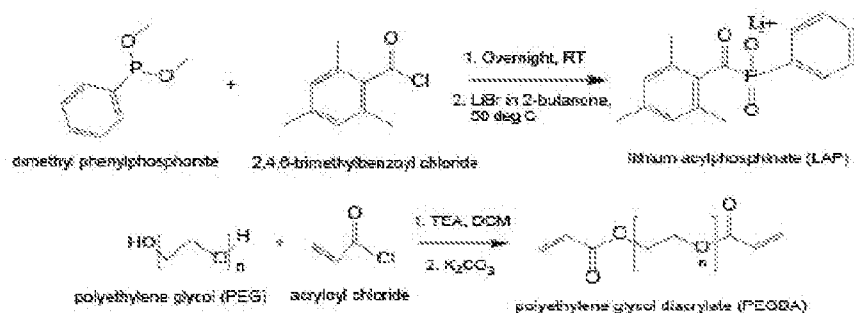
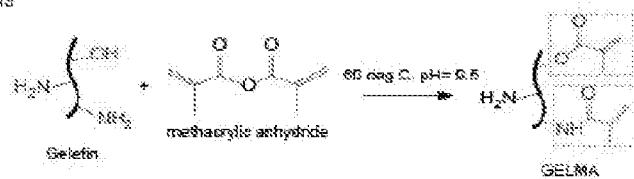


FIG. 15

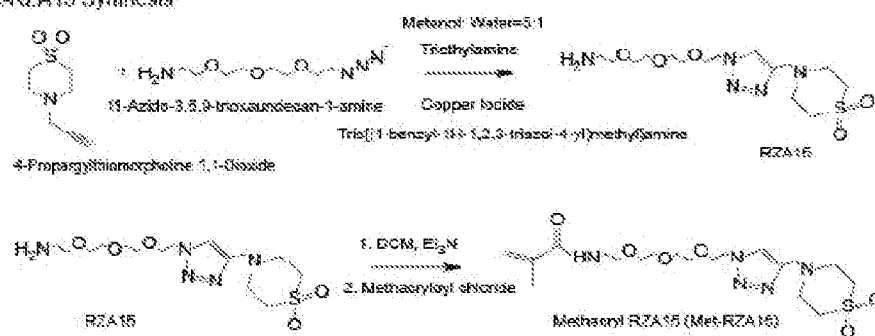
a. LAP and PEGDA Synthesis



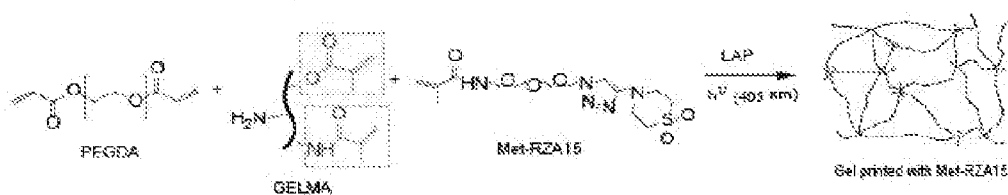
b. GELMA Synthesis



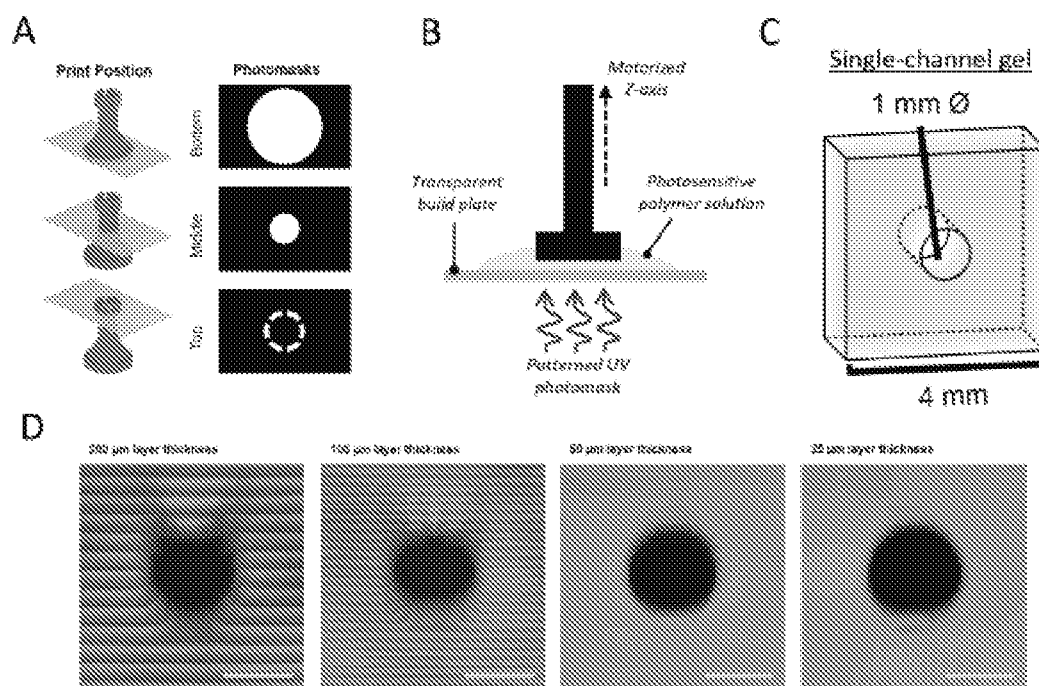
c. Met-RZA15 Synthesis



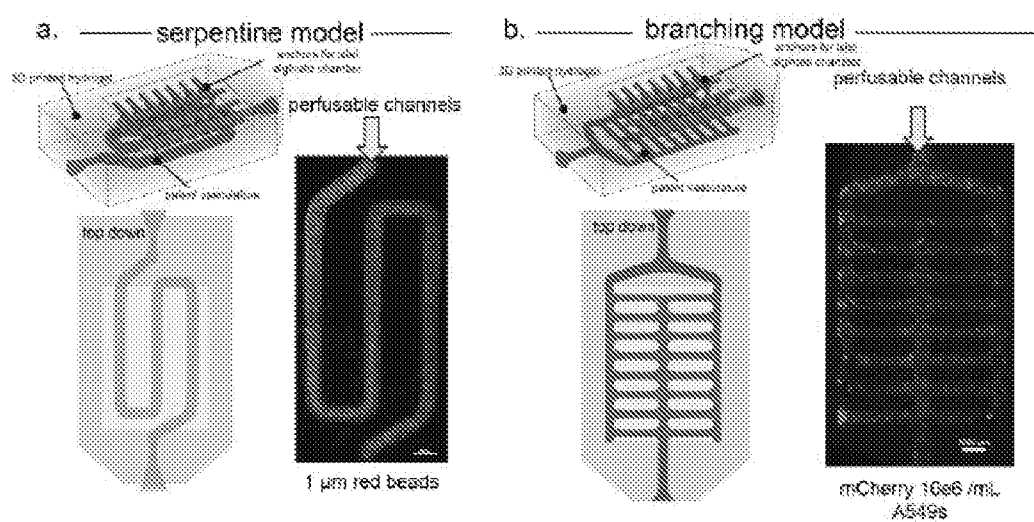
d. Met-RZA15-Modified Gel Synthesis



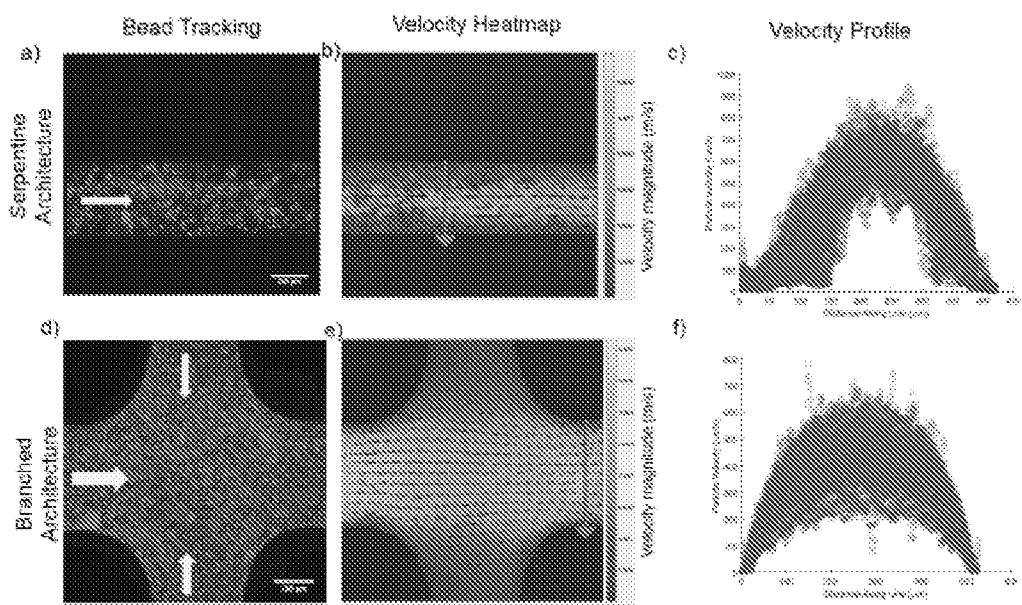
FIGS. 16A-D



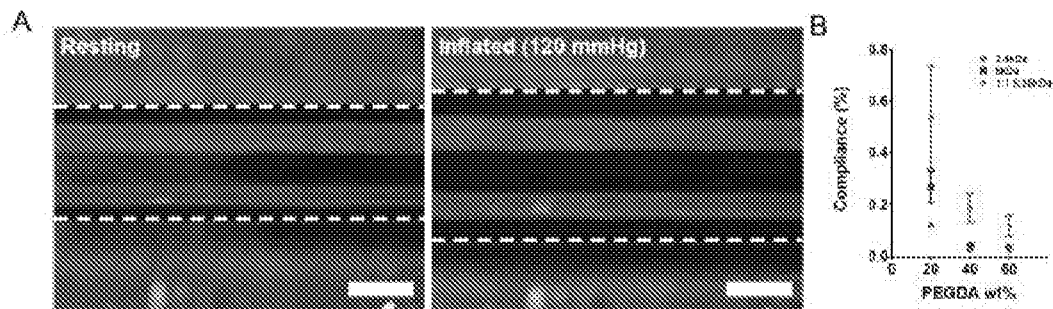
FIGS. 19A-D



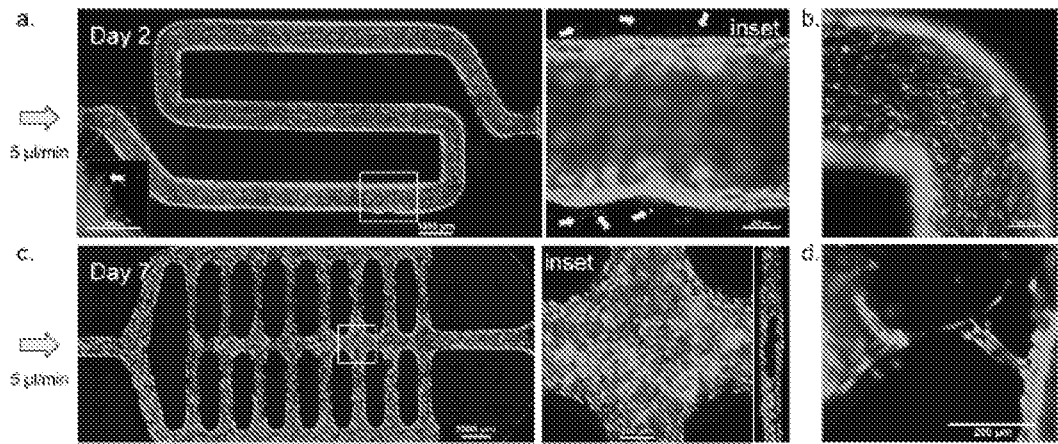
FIGS. 20A-B



FIGS. 21A-F



FIGS. 22A-B



FIGS. 23A-D

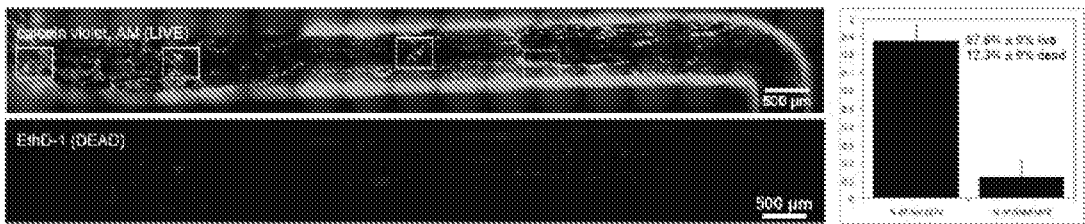
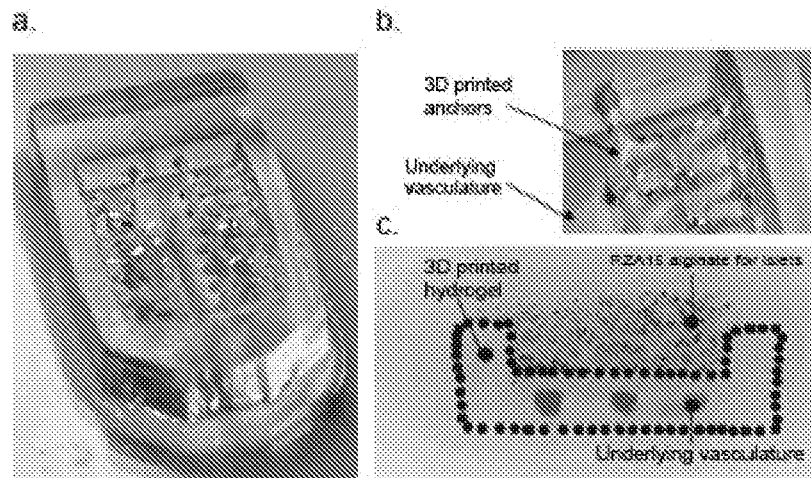
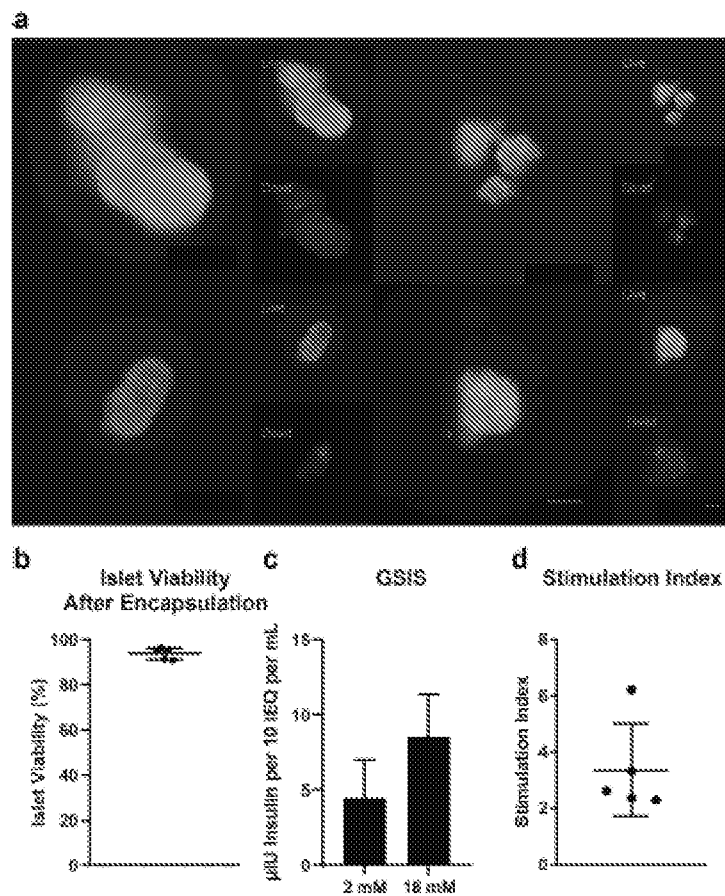


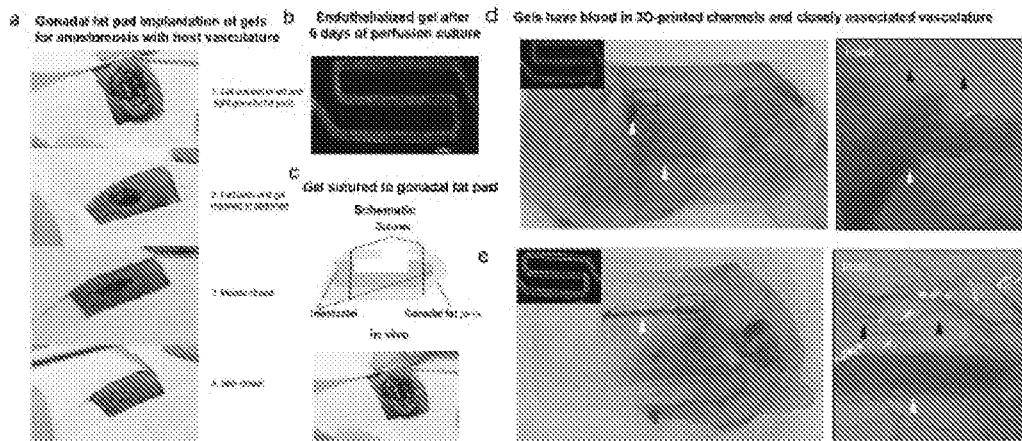
FIG. 24



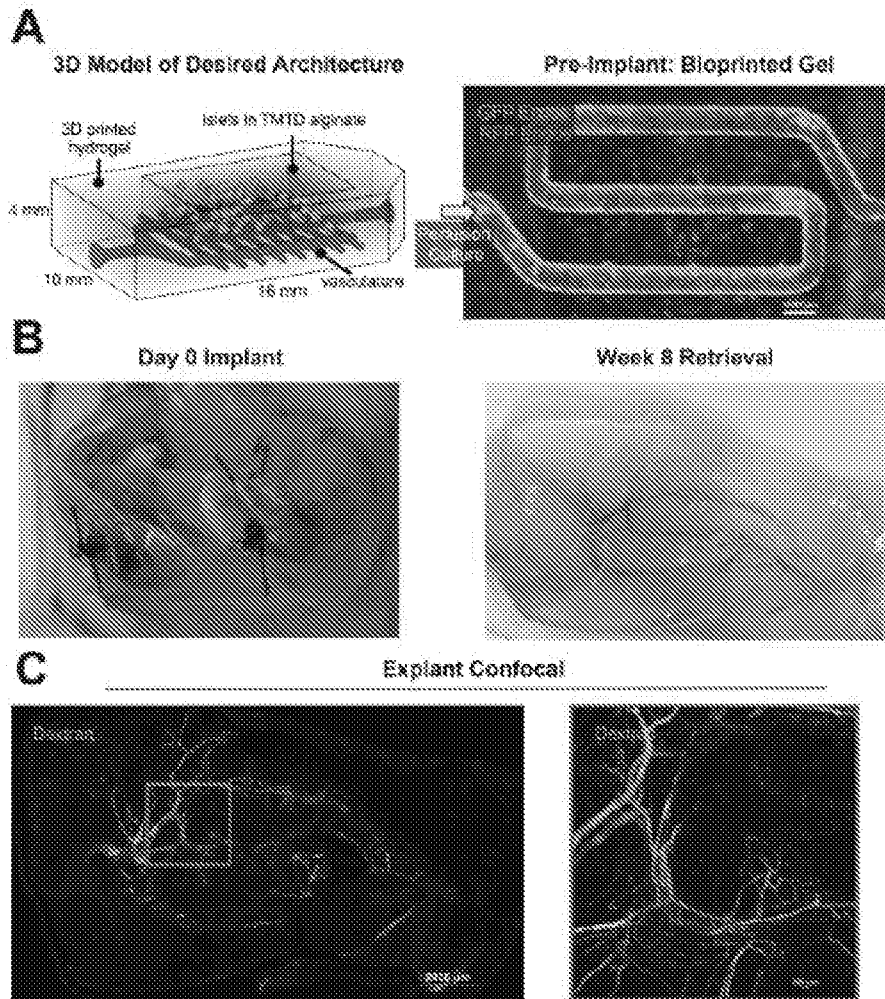
FIGS. 25A-C



FIGS. 26A-D



FIGS. 27A-D



FIGS. 28A-C

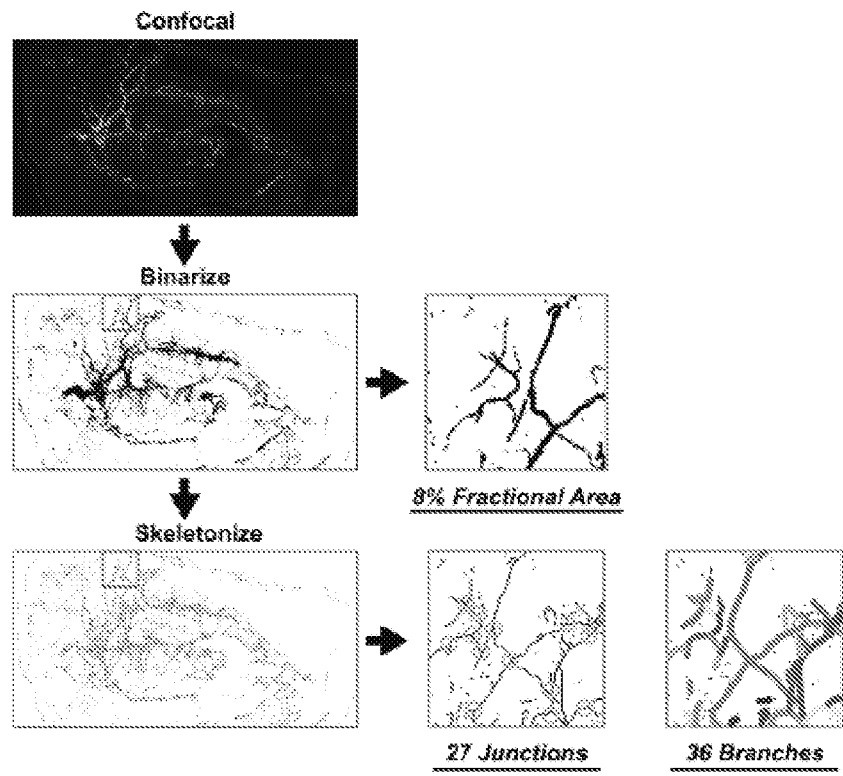
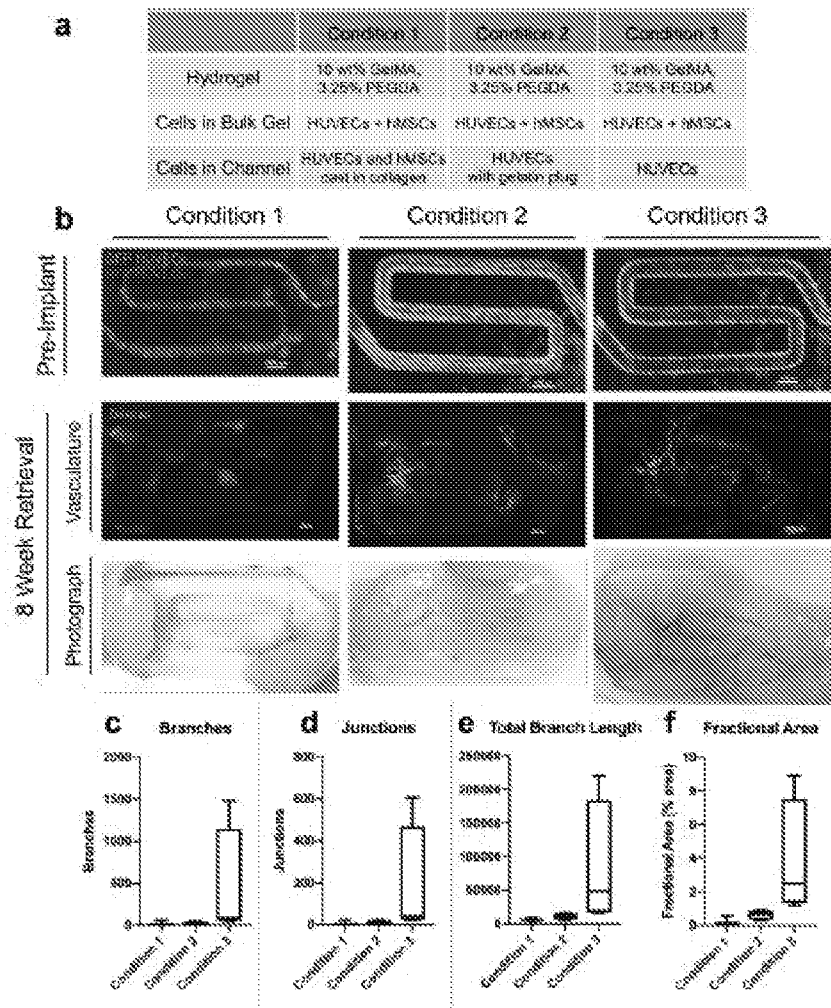
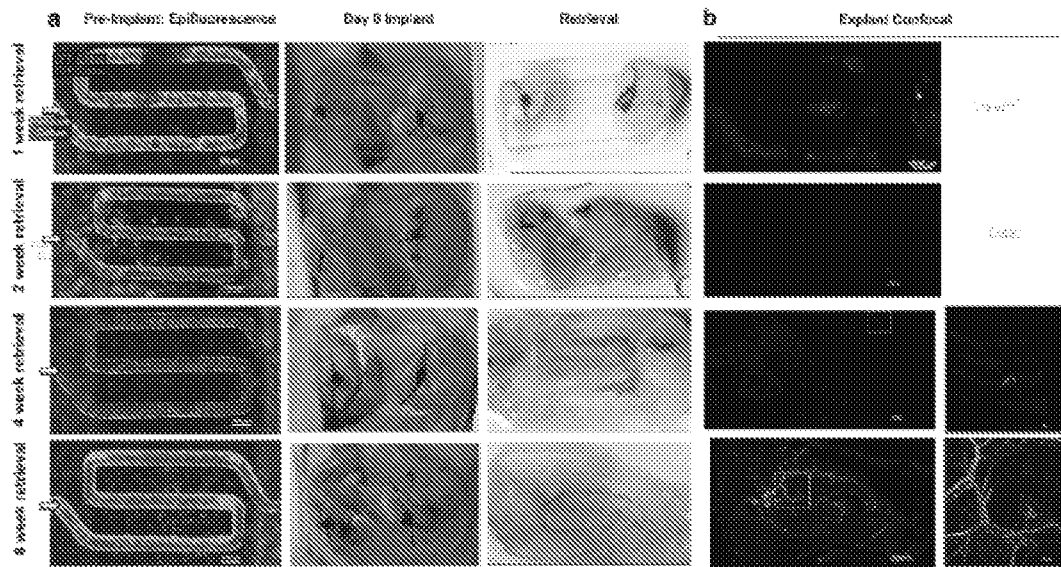


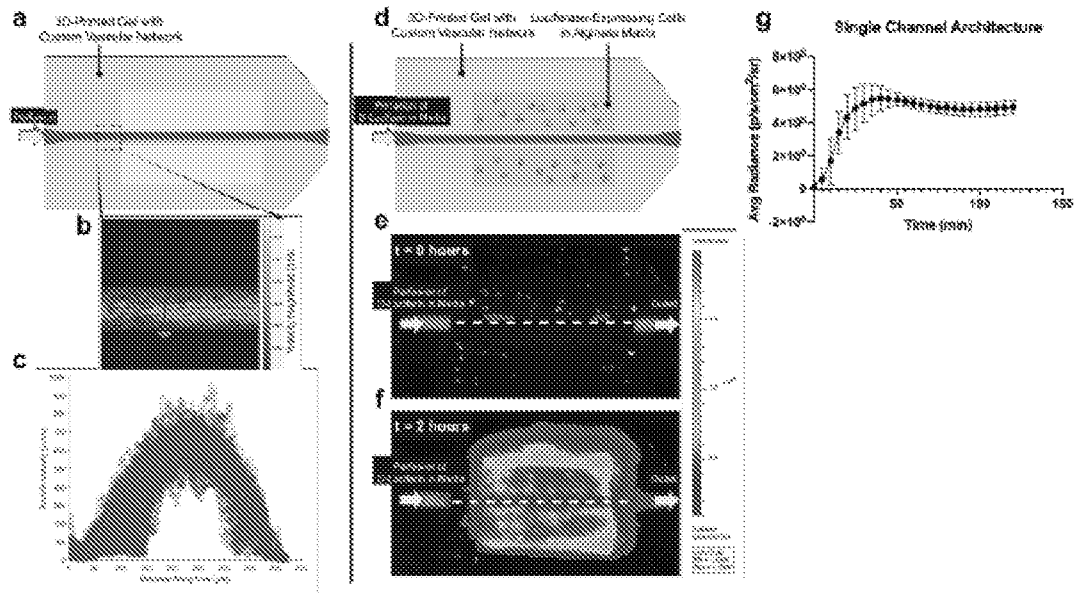
FIG. 29



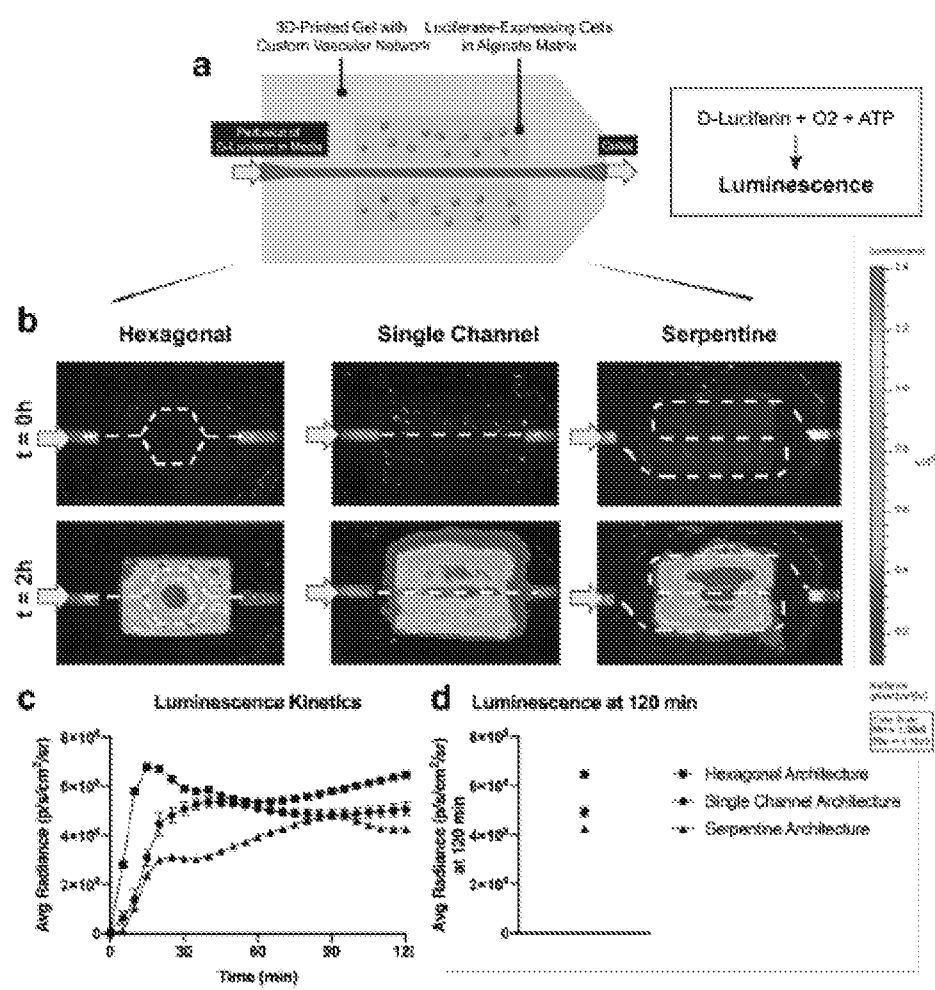
FIGS. 30A-F



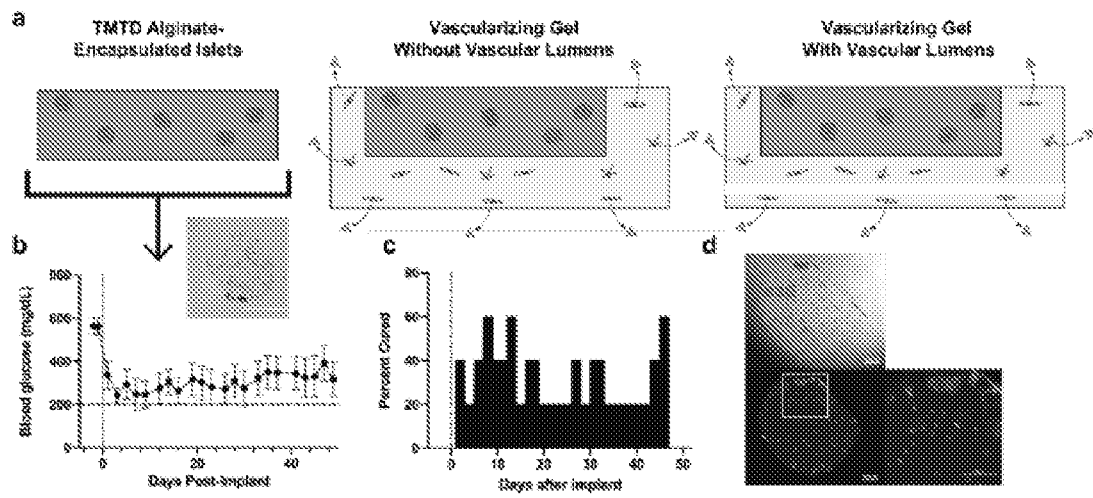
FIGS. 31A-B



FIGS. 32A-G



FIGS. 33A-D



FIGS. 34A-D

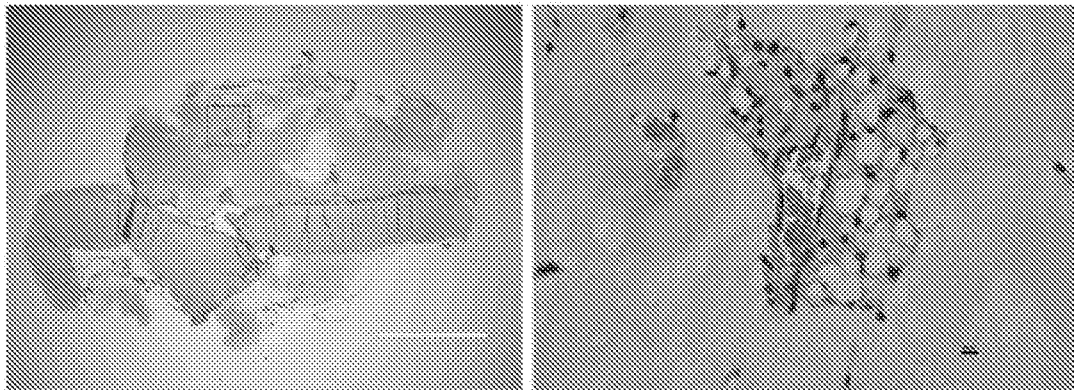


FIG. 35

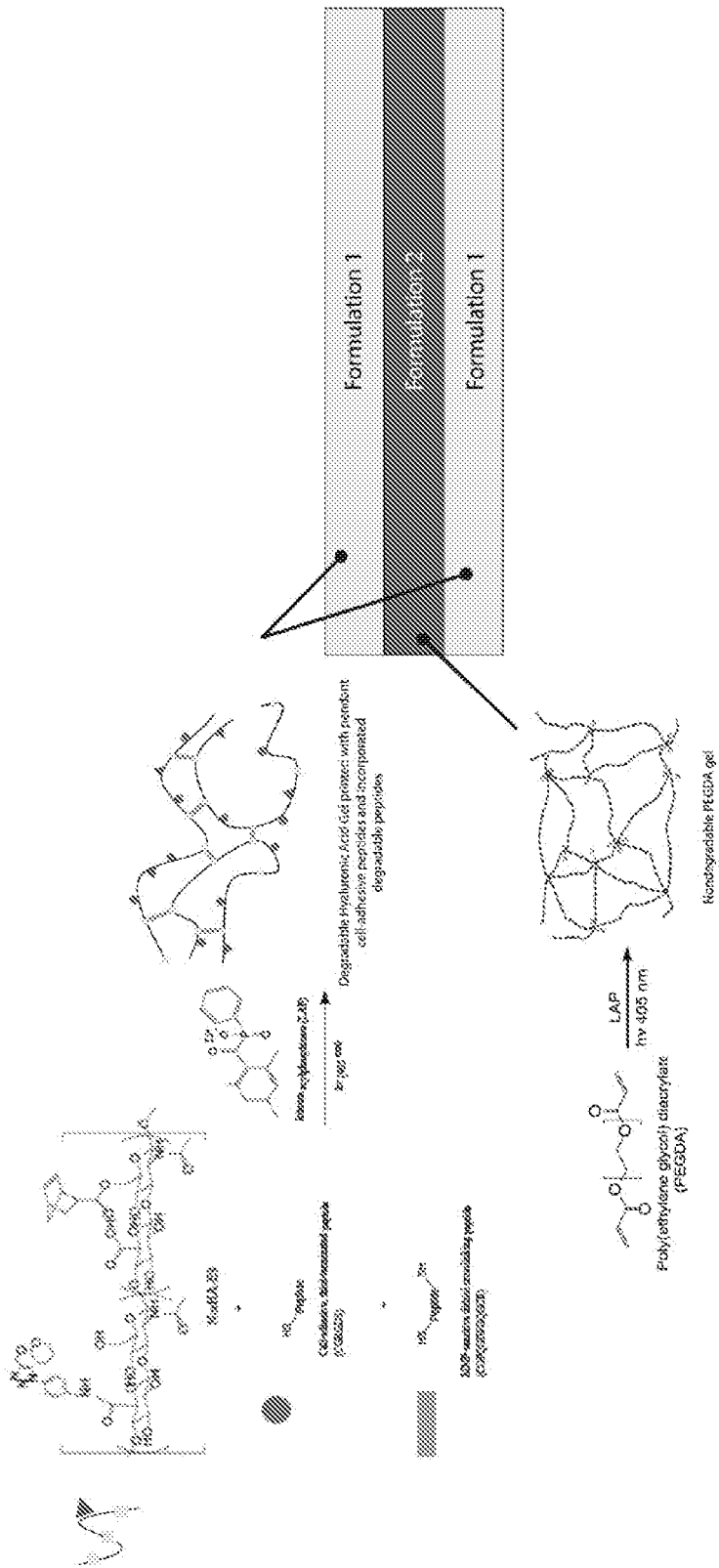


FIG. 36