

Fig.1

ESC KhES-1 strain

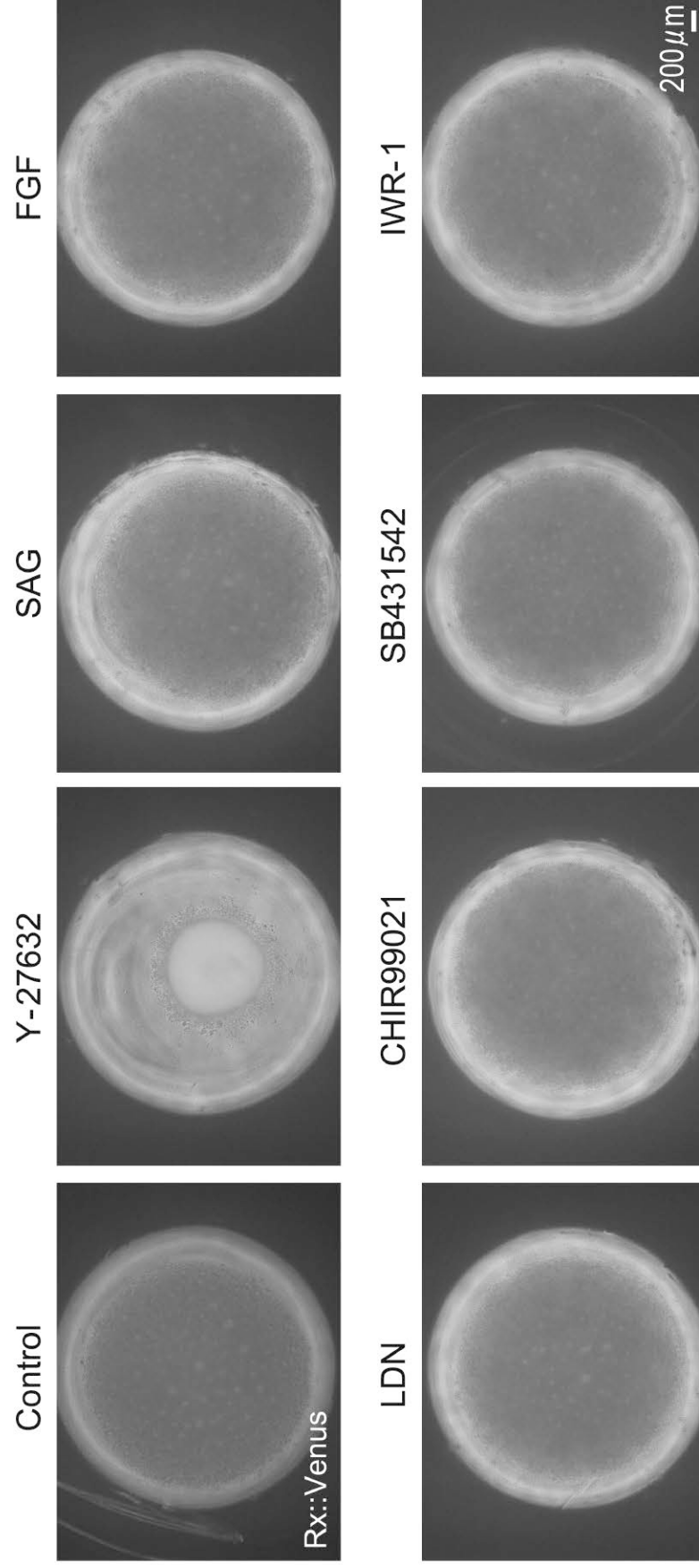


Fig.2

iPSC 1231A3 strain

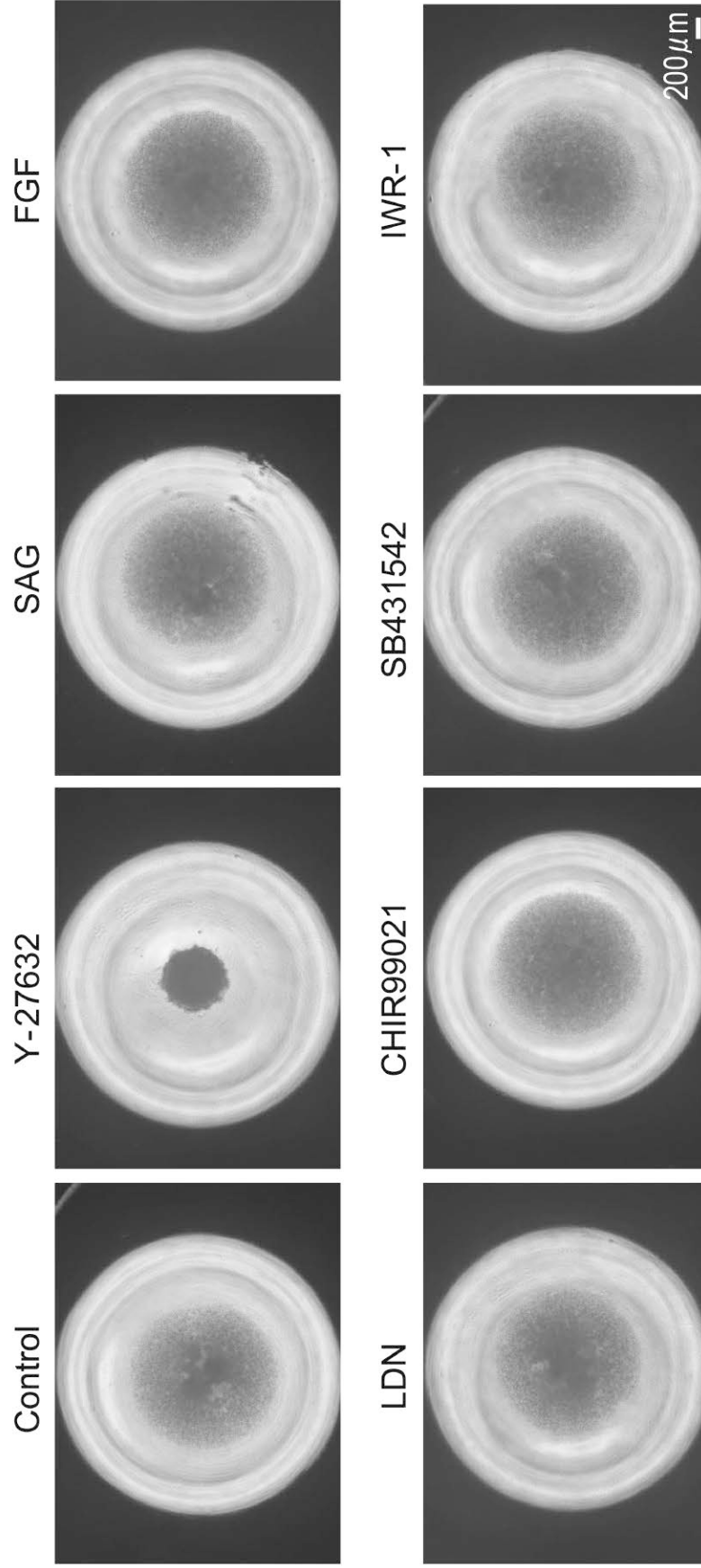


Fig.3

ESC KhES-1strain Day 1 after dispersion/reseeding

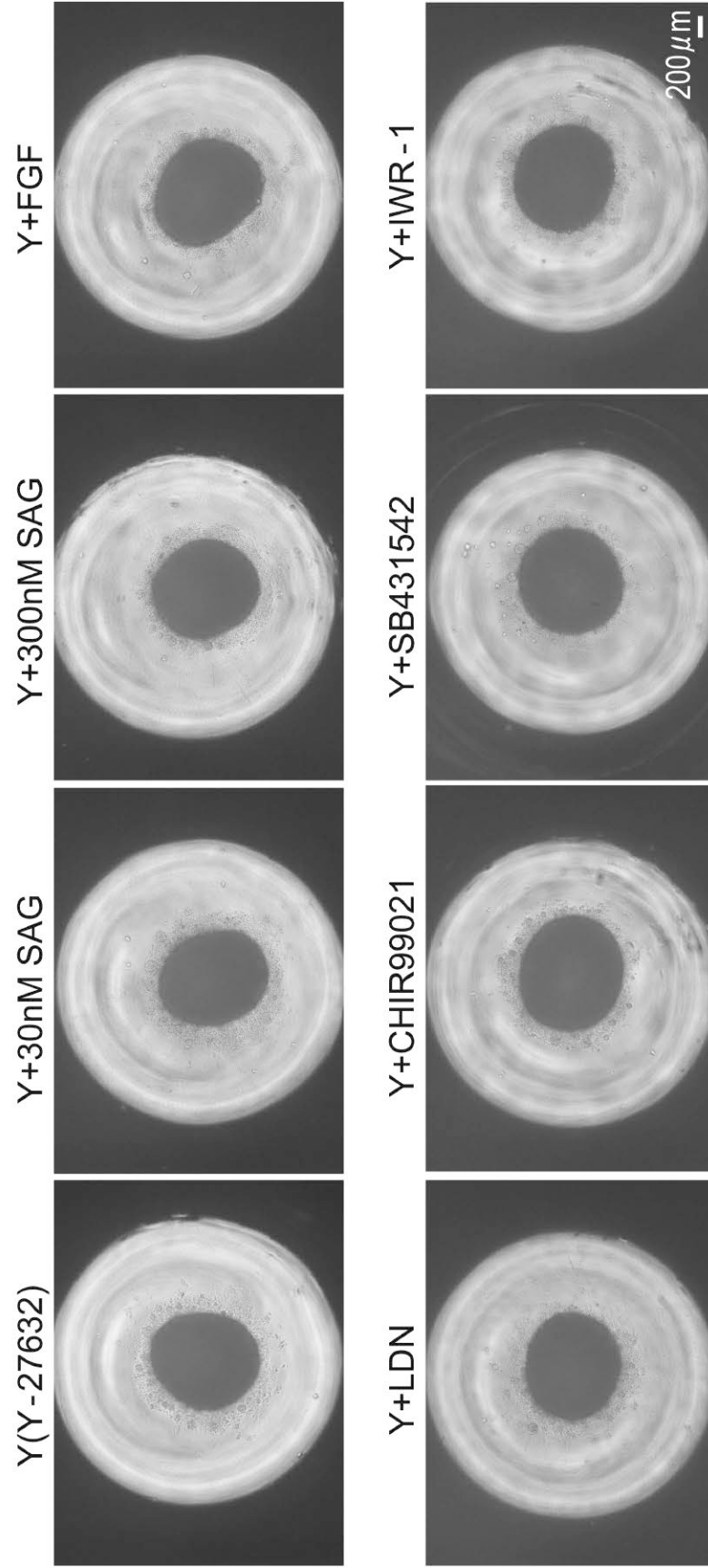


Fig.4

ESC KhES-1strain Day 7 after dispersion/reseeding

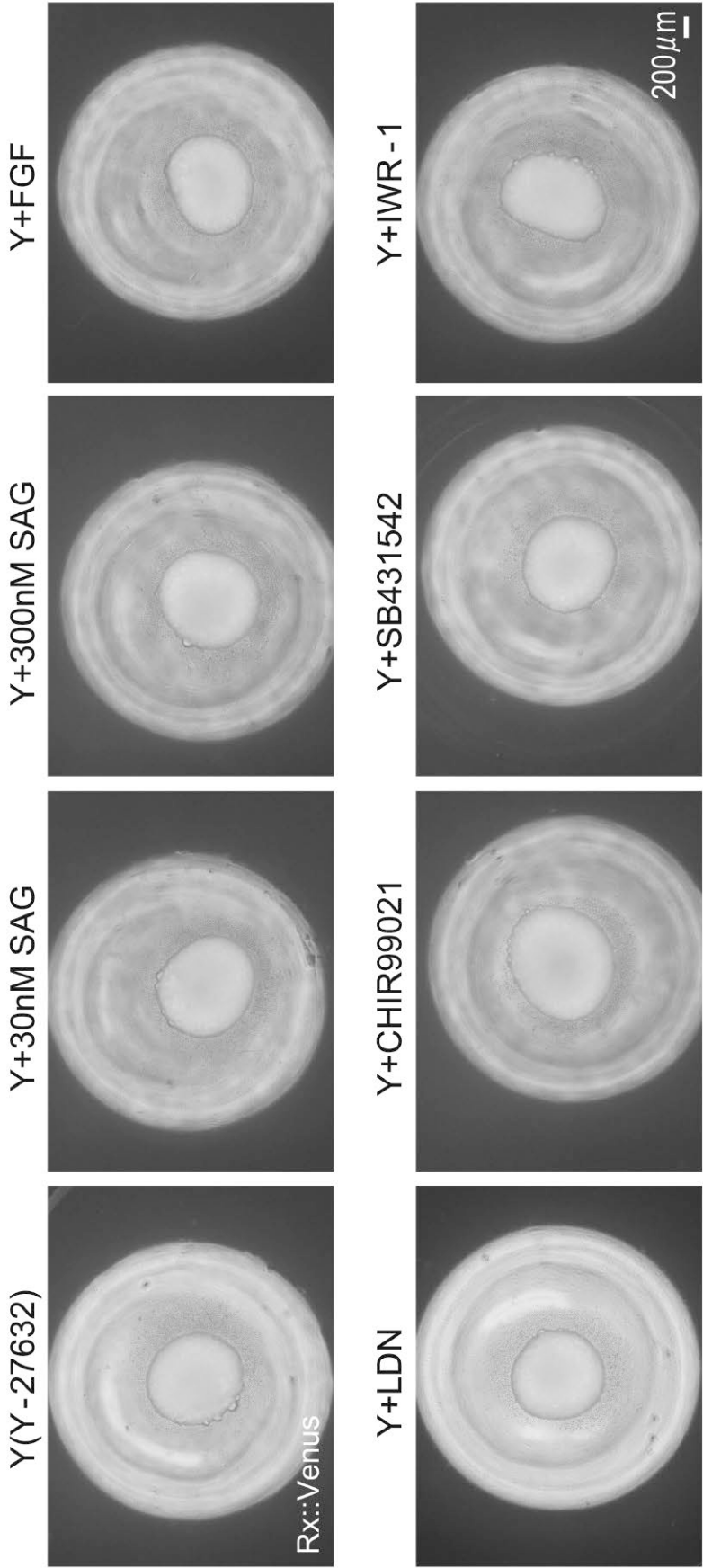


Fig.5

ESC KhES-1strain Day 14 after dispersion/reseeding

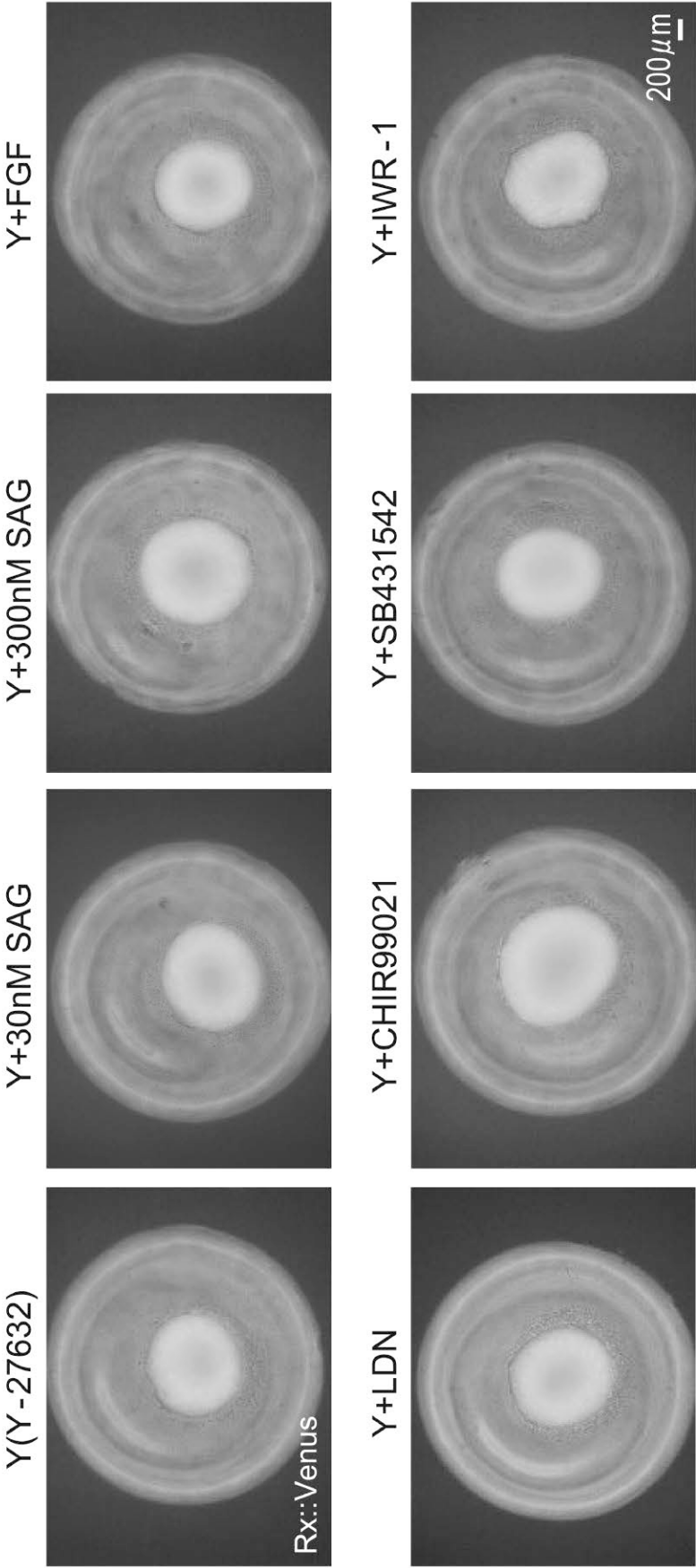


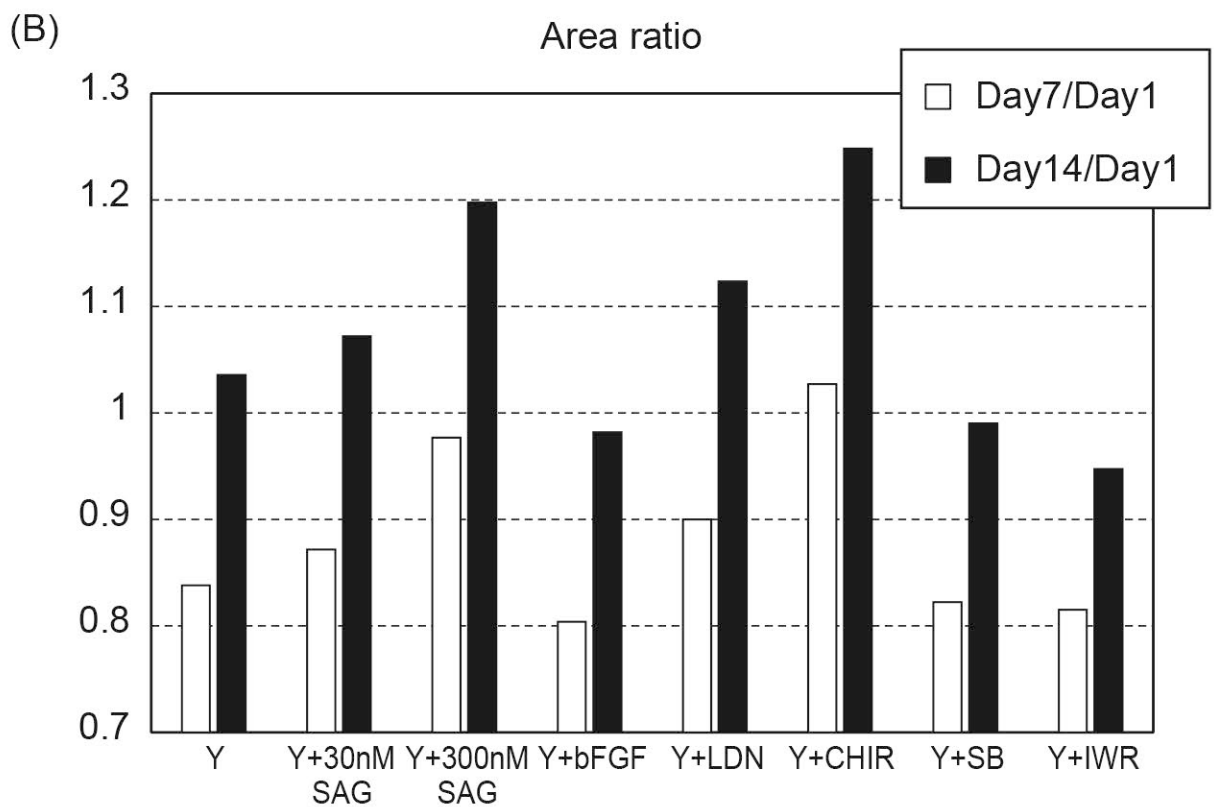
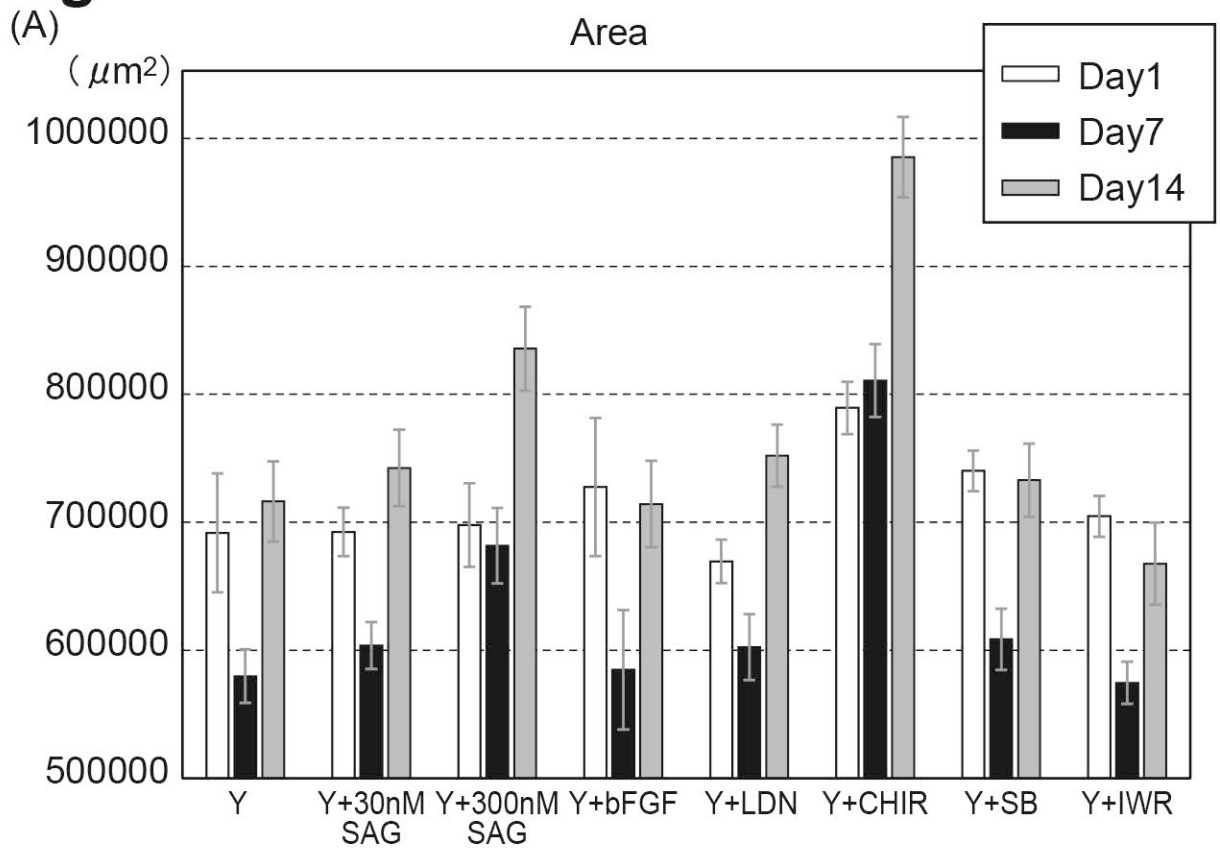
Fig.6

Fig.7

iPSC 1231A3 strain

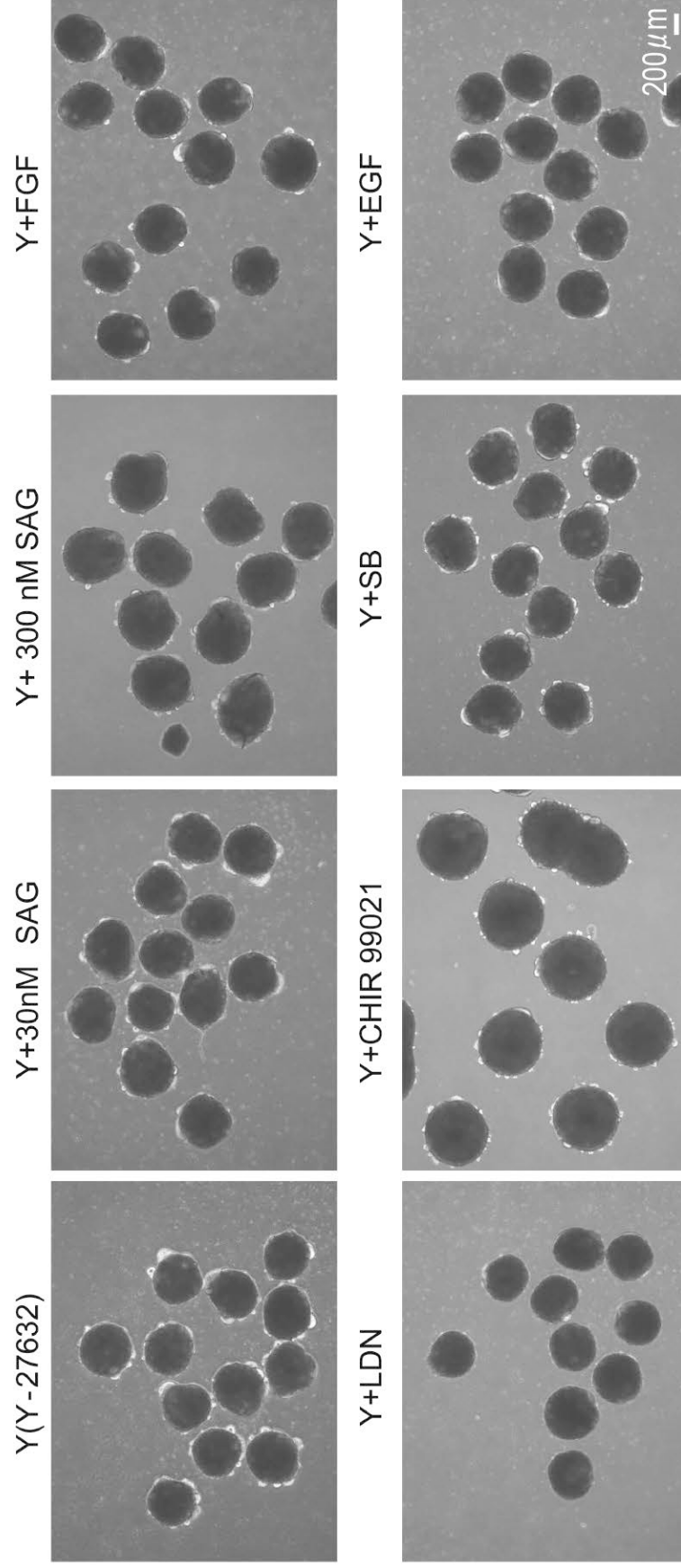


Fig.8

Day 1 after seeding (dd27)

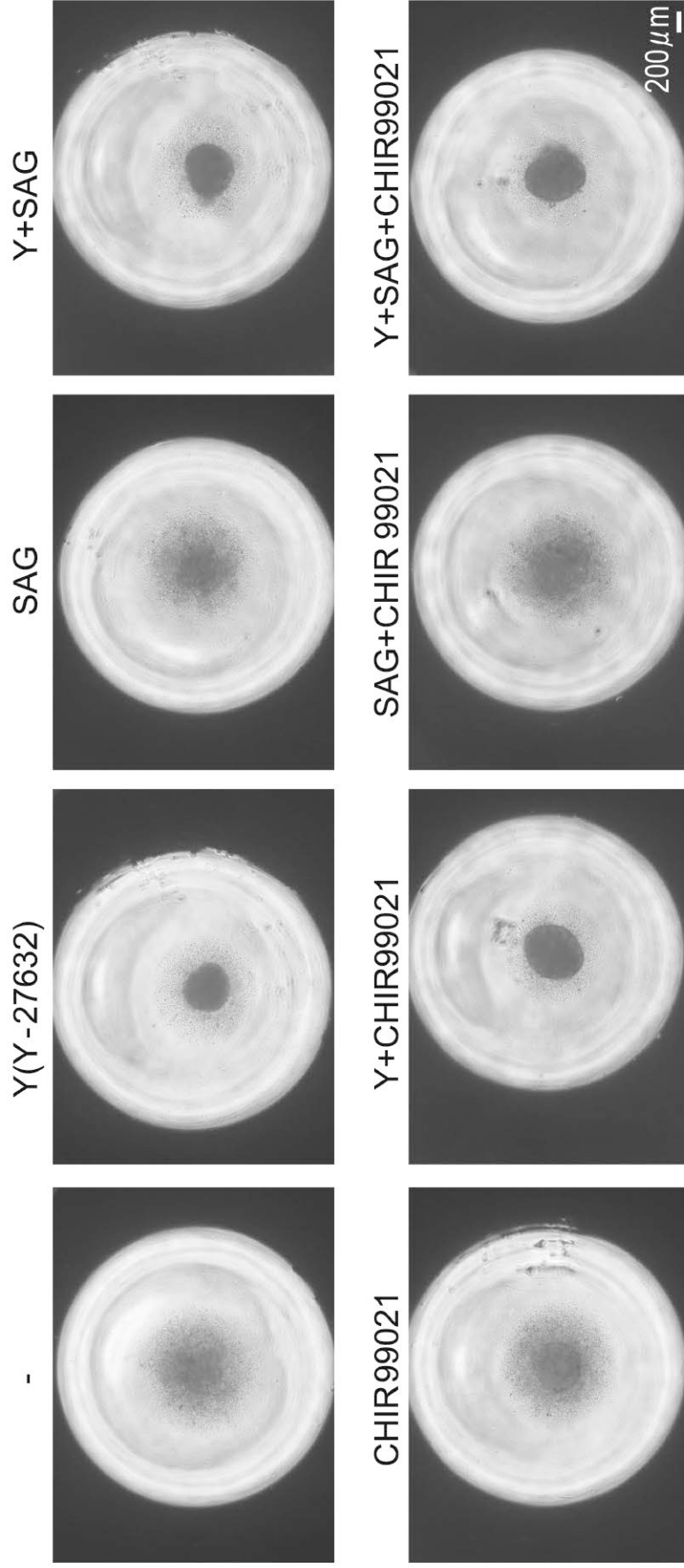
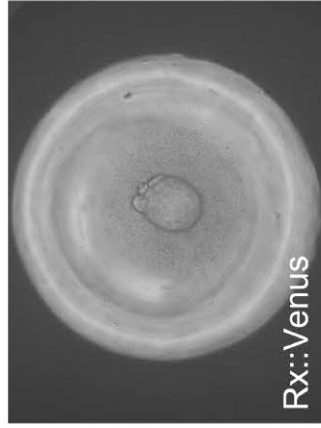


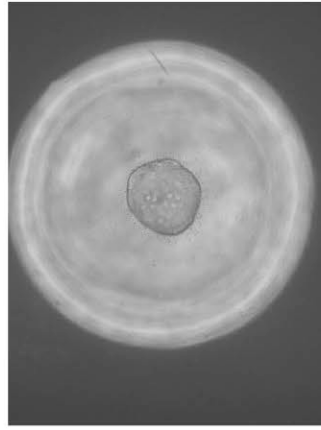
Fig.9

Day 14 after seeding (dd40)

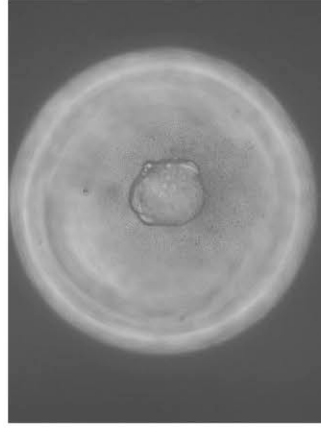
-



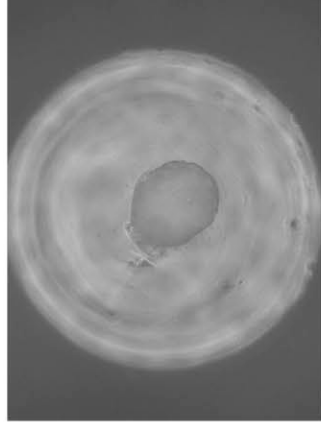
Y(Y-27632)



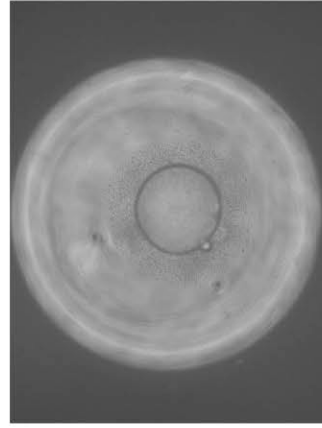
SAG



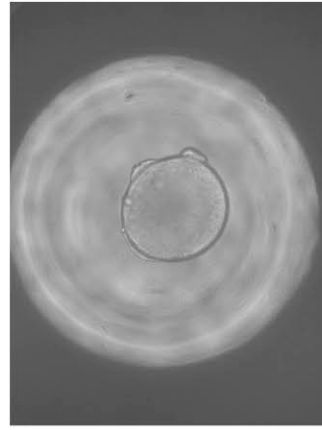
Y+SAG



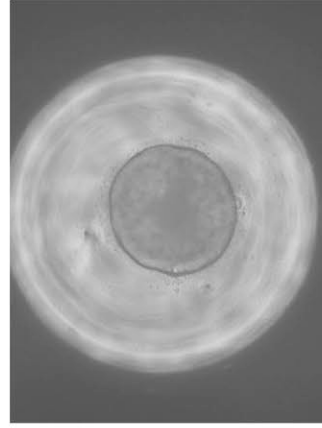
CHIR99021



Y+CHIR99021



SAG+CHIR 99021



Y+SAG+CHIR99021

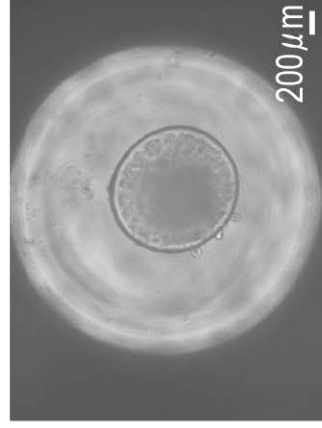


Fig.10

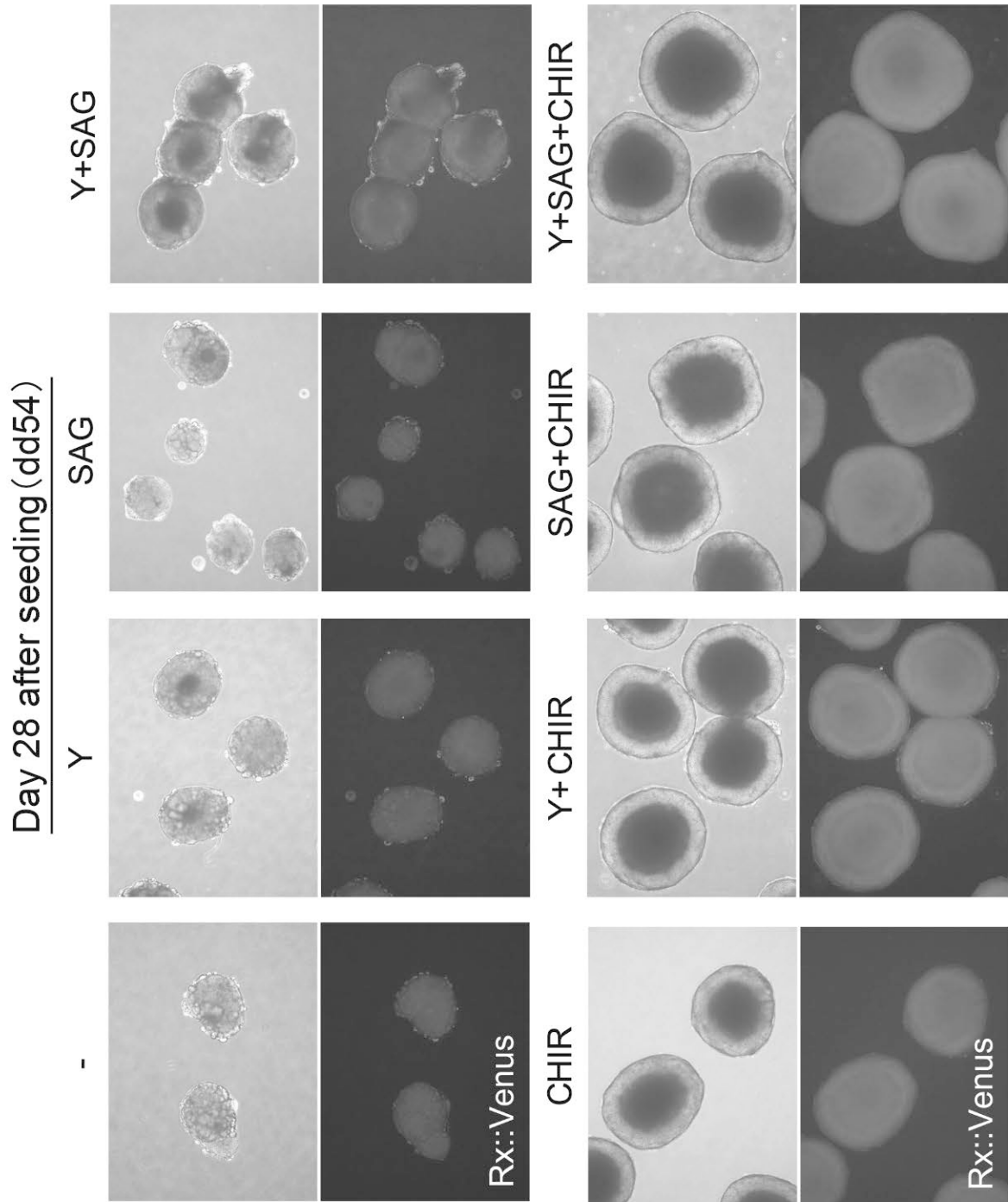


Fig.11

Day 15 after seeding (dd41)

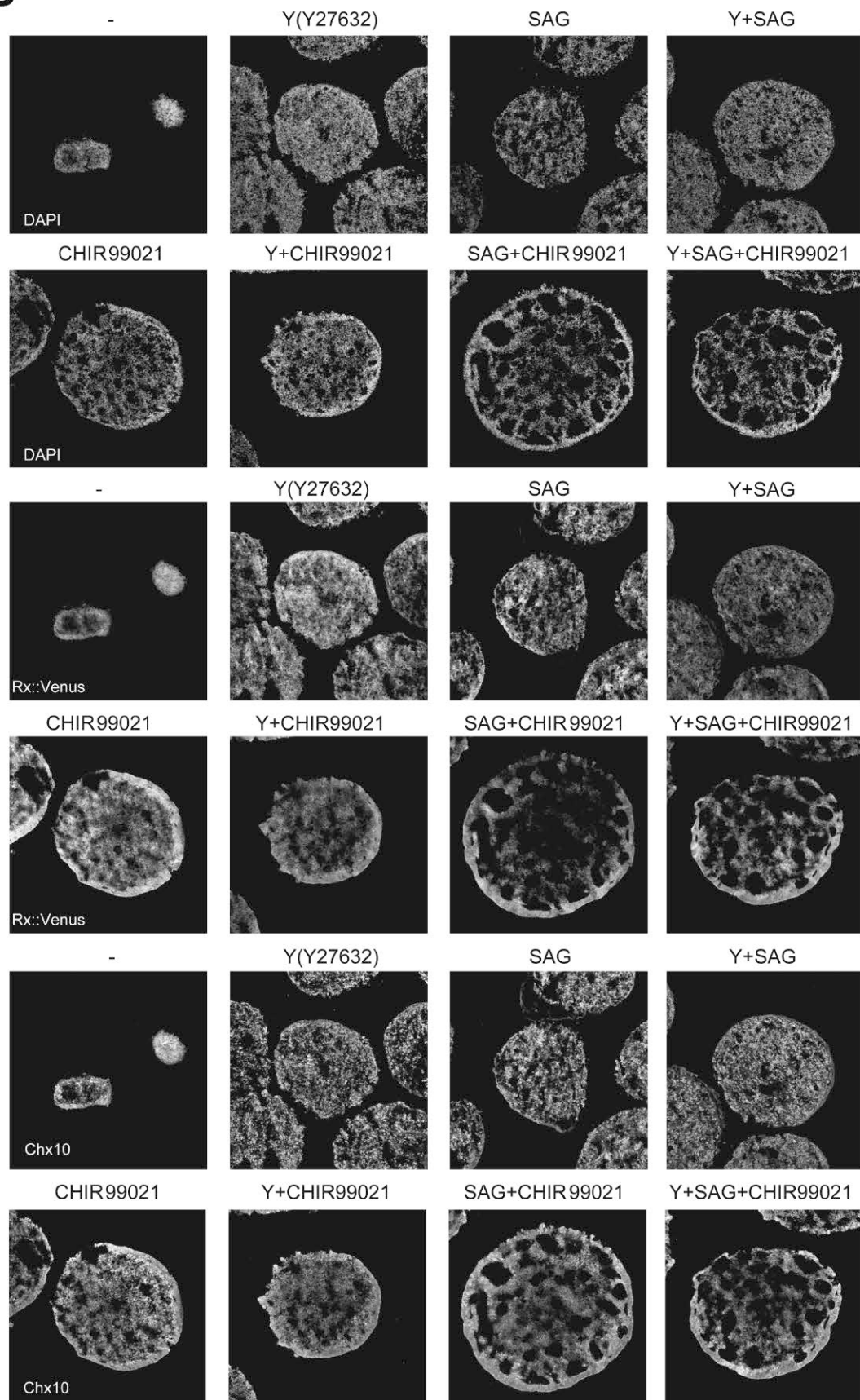


Fig.12

Day 15 after seeding (dd41)

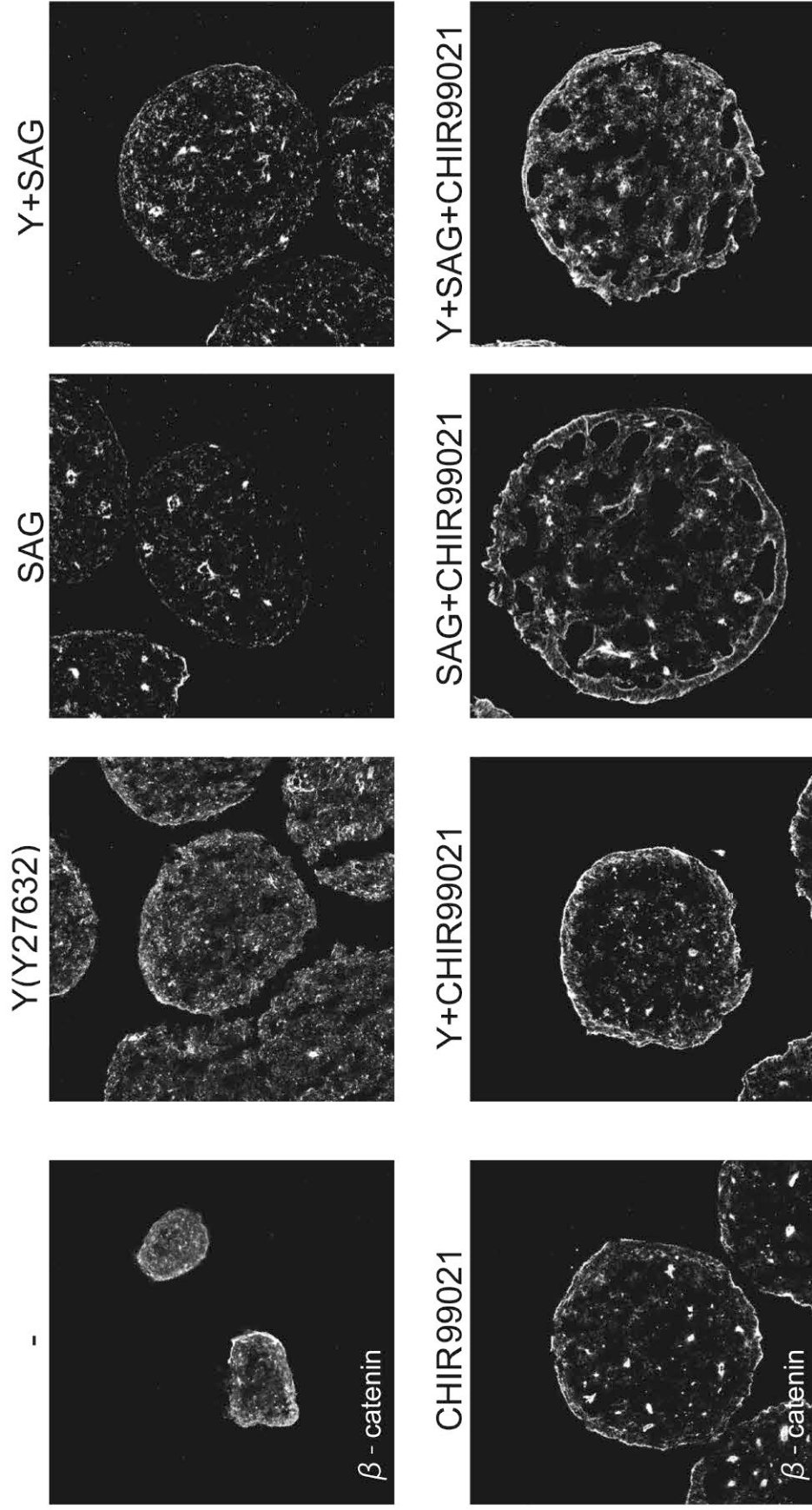


Fig.13

Day 15 after seeding (dd41)

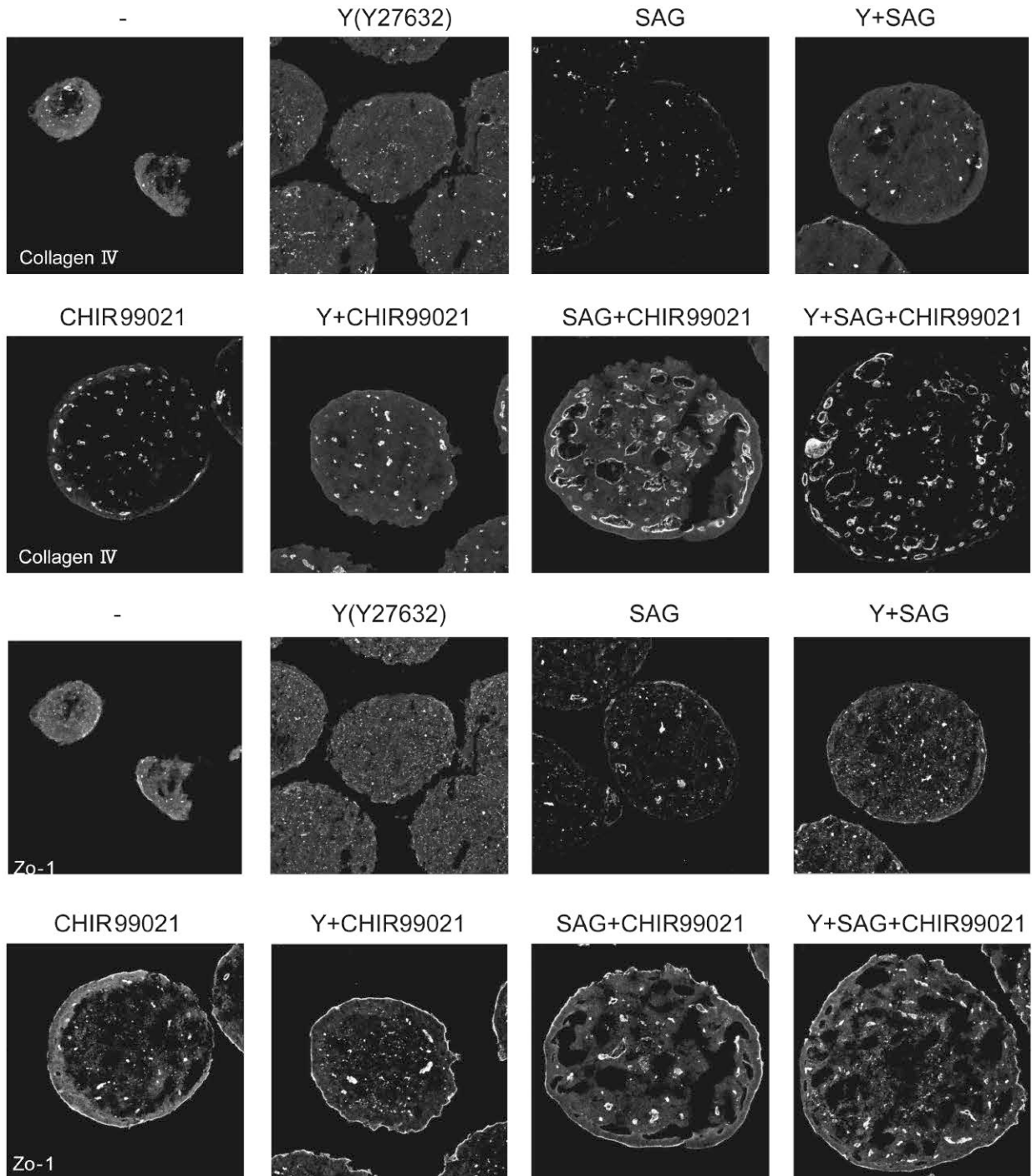


Fig.14

Day 28 after seeding (dd54)

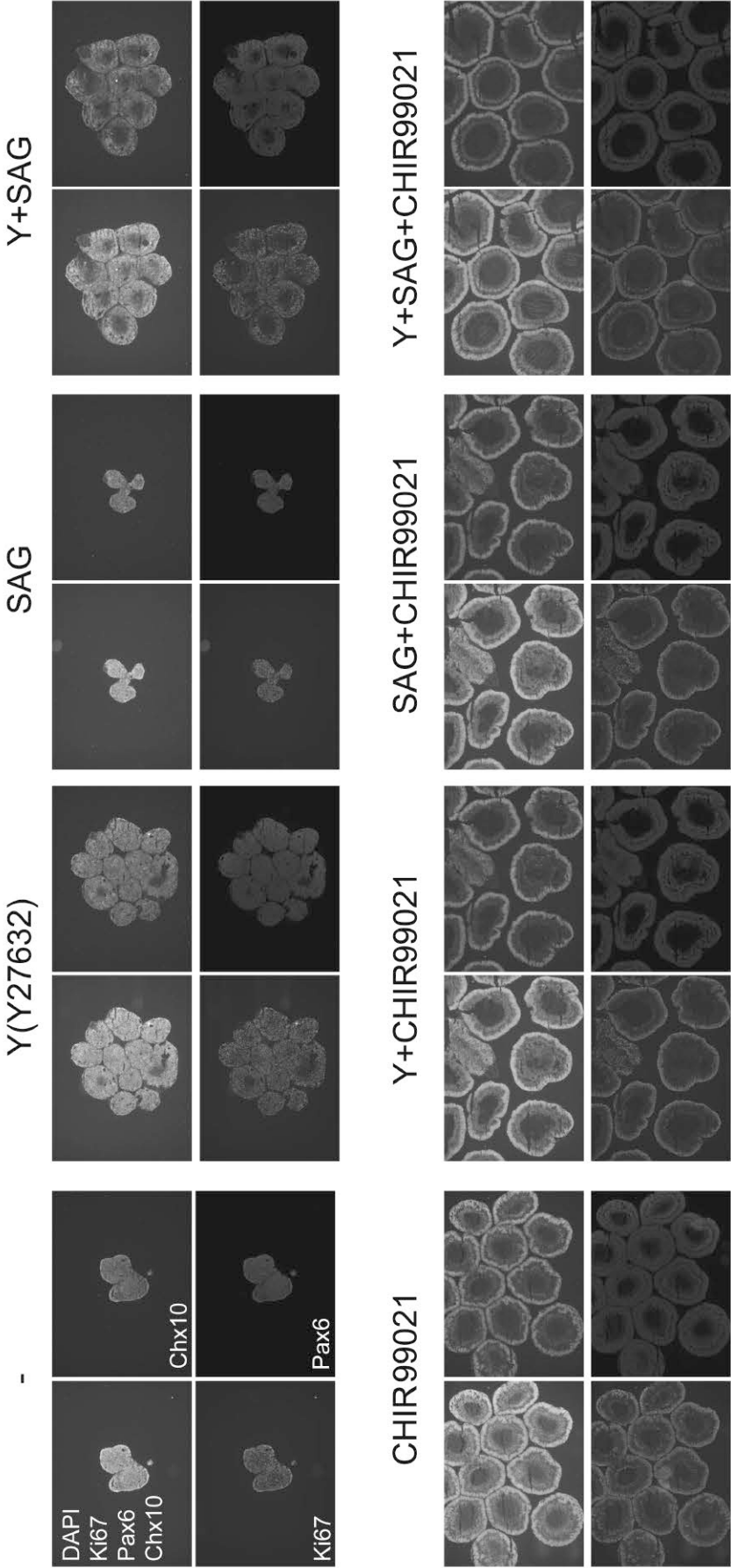


Fig.15

Day 28 after seeding (dd54)

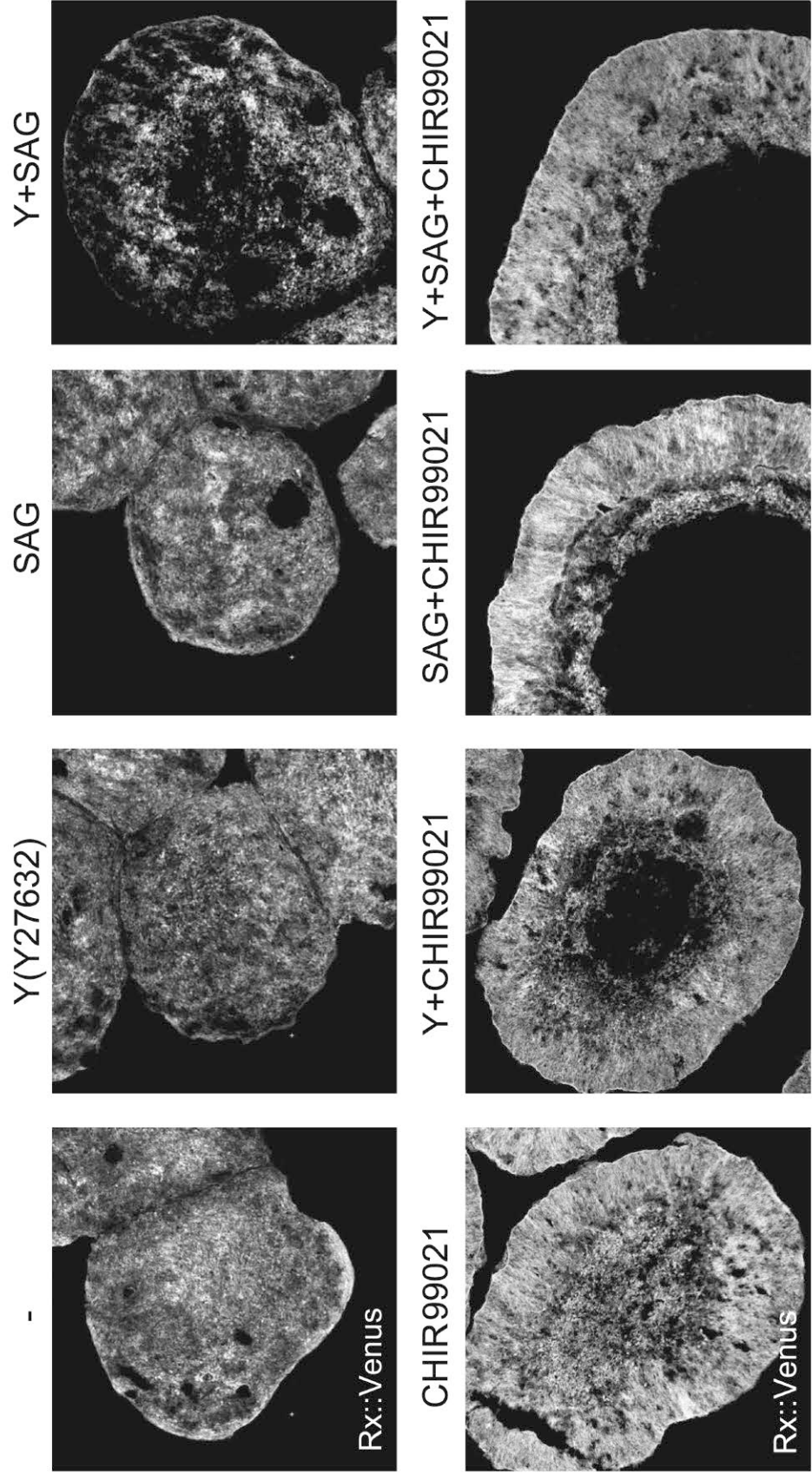


Fig.16

Day 28 after seeding (dd54)

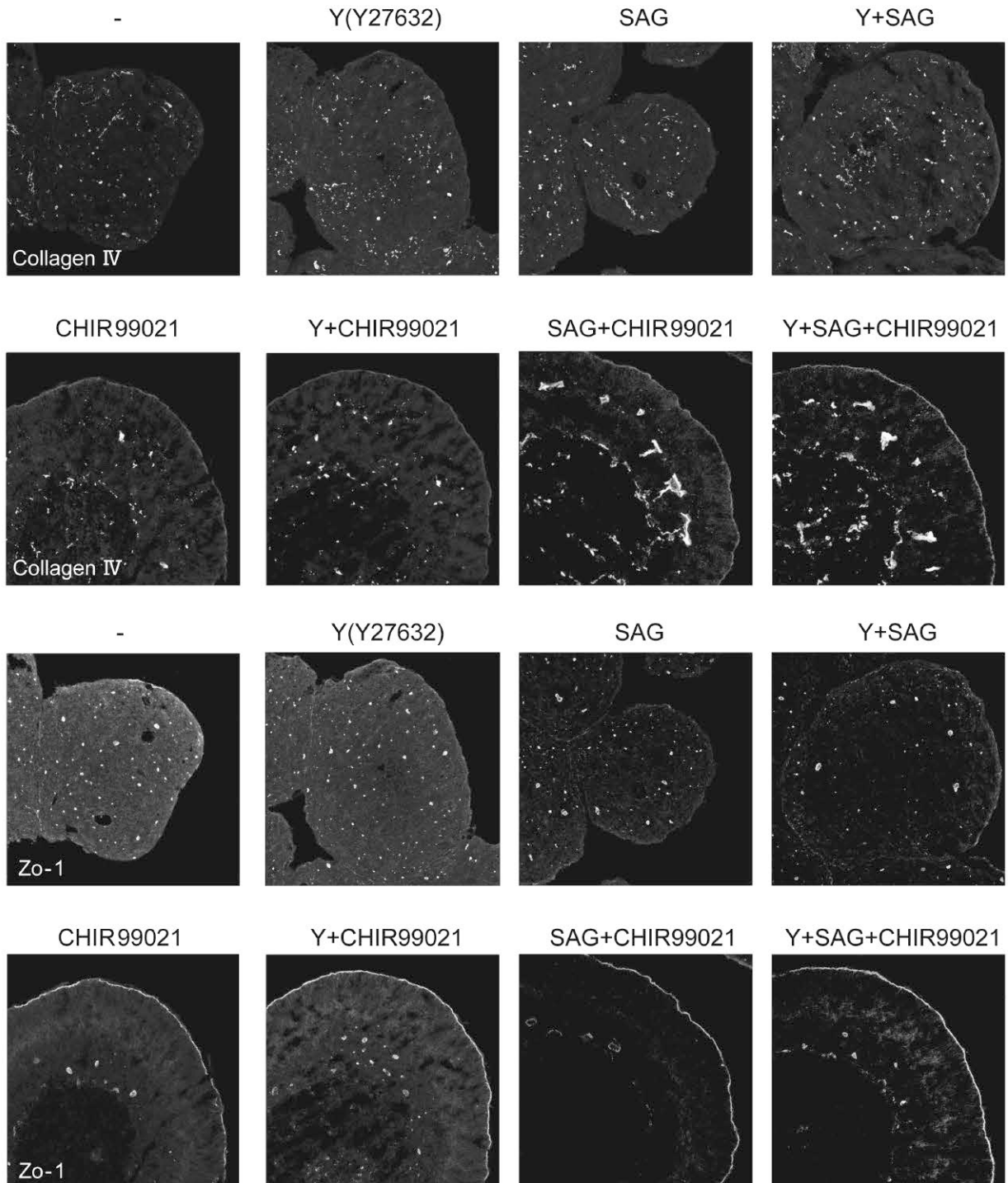


Fig.17

Day 28 after seeding (dd54)

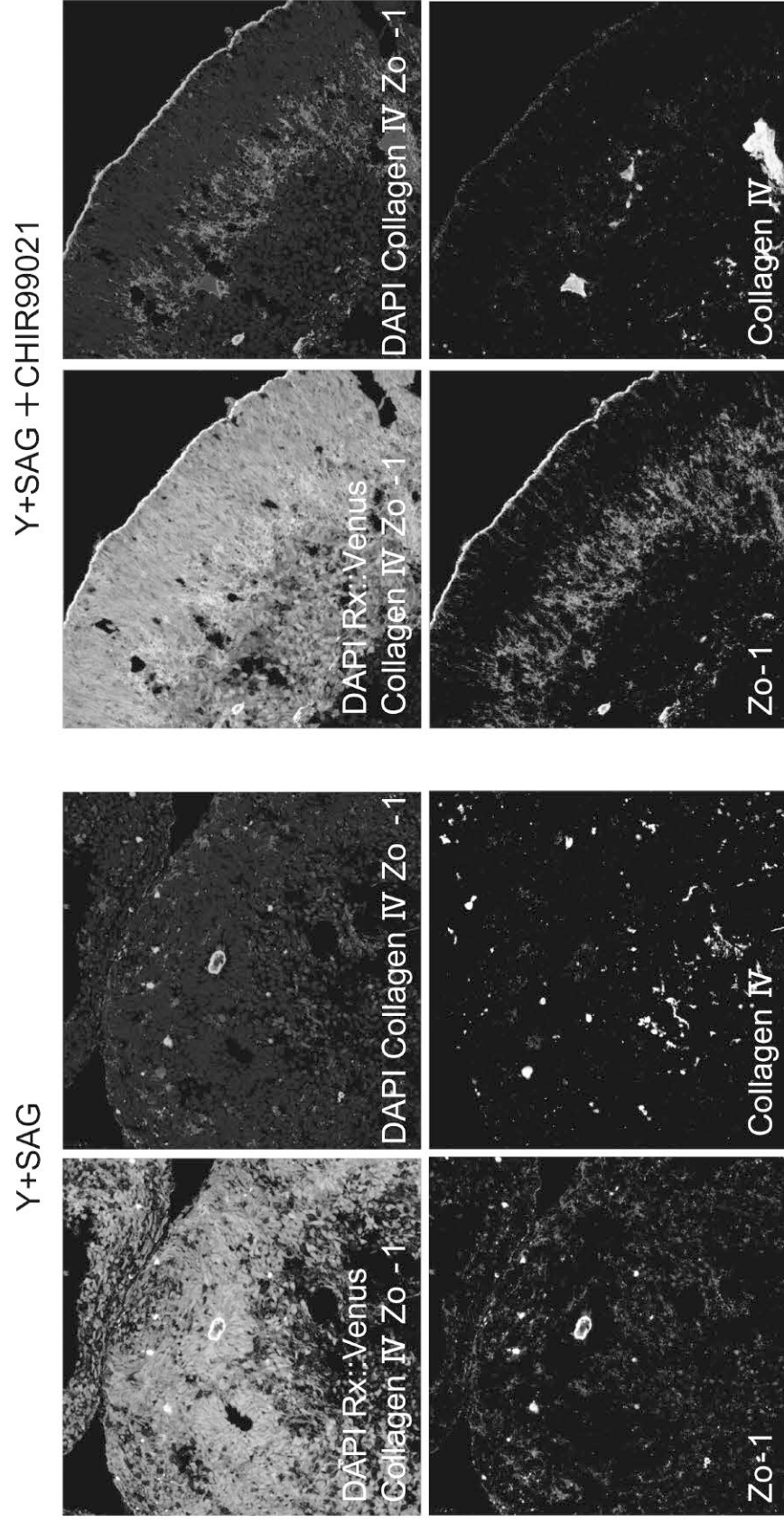
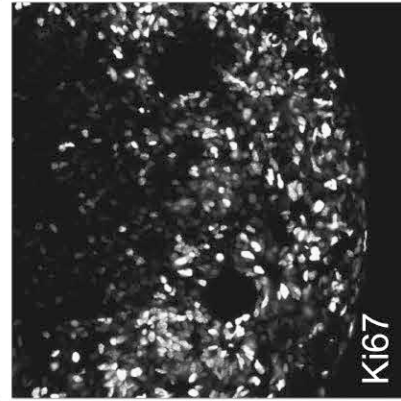
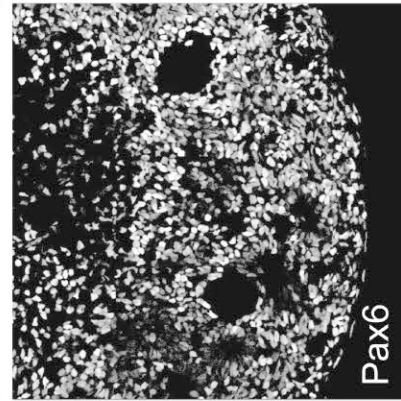
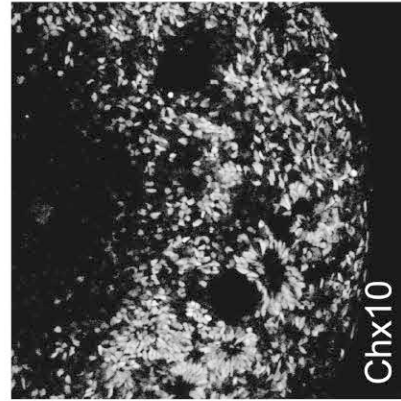
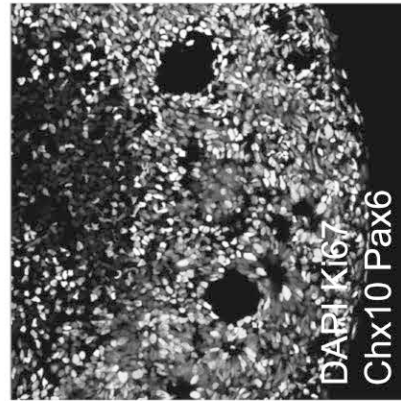


Fig.18

Day 28 after seeding (dd54)

Y+SAG



Y+SAG + CHIR99021

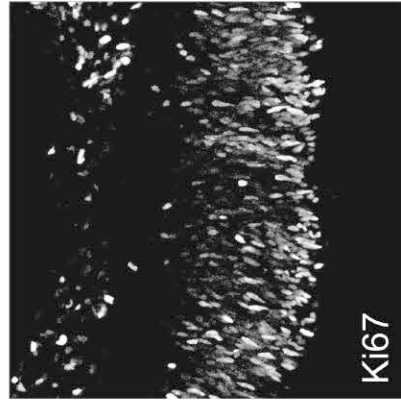
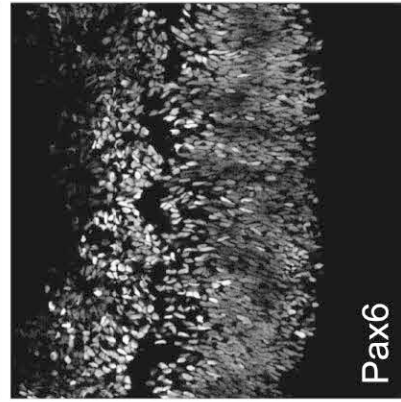
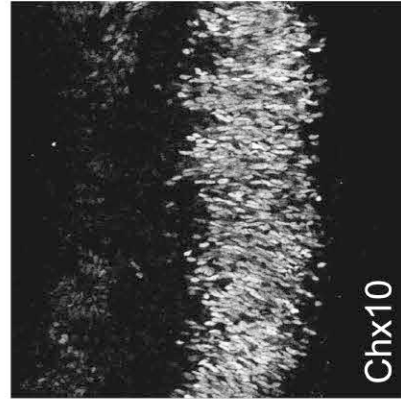
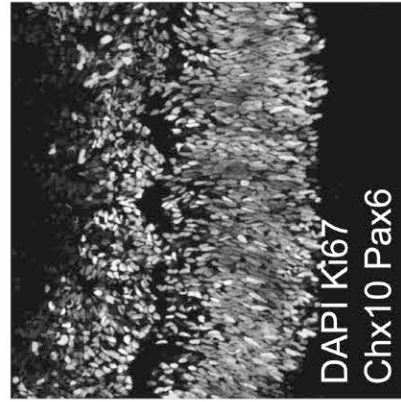


Fig.19

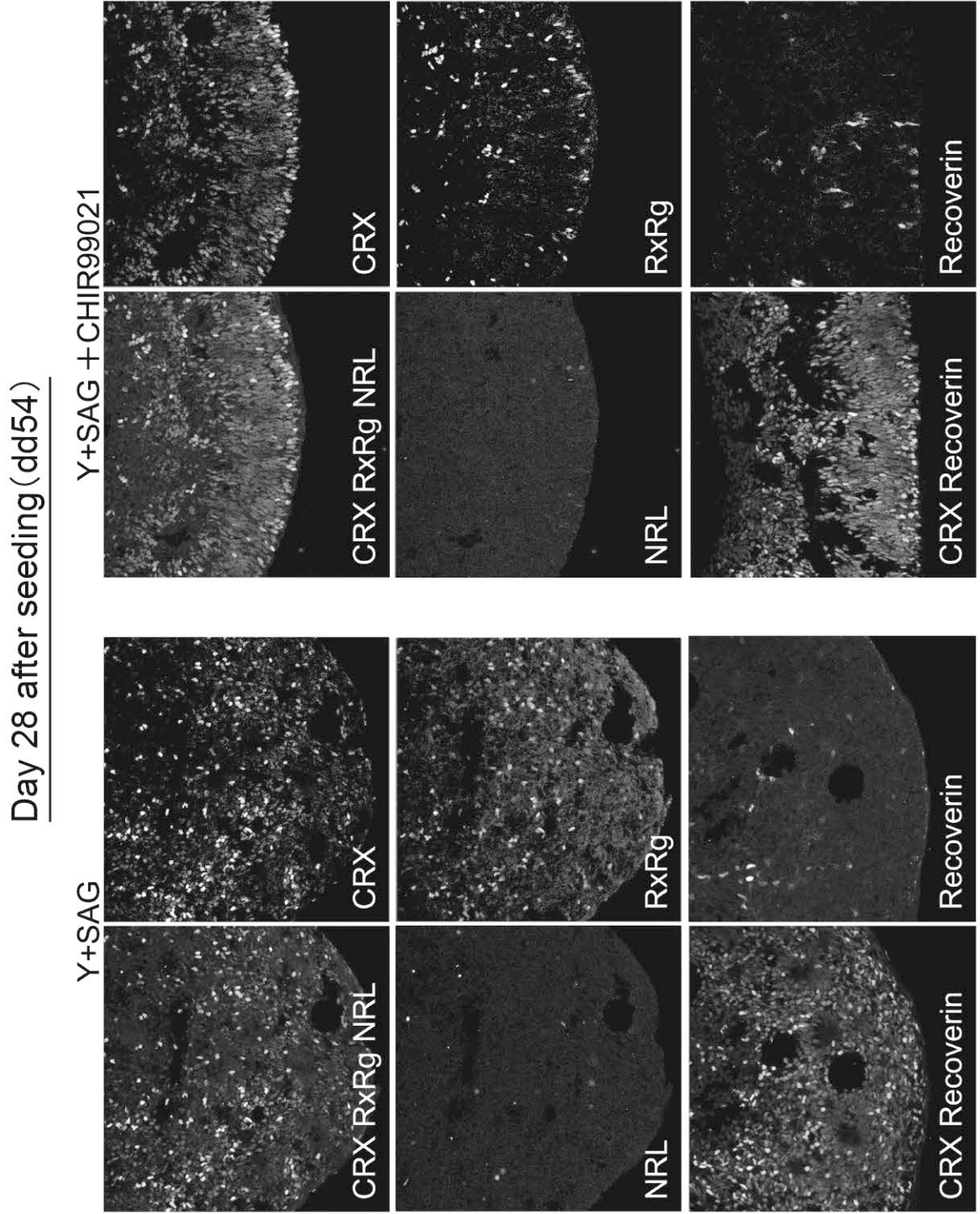


Fig.20

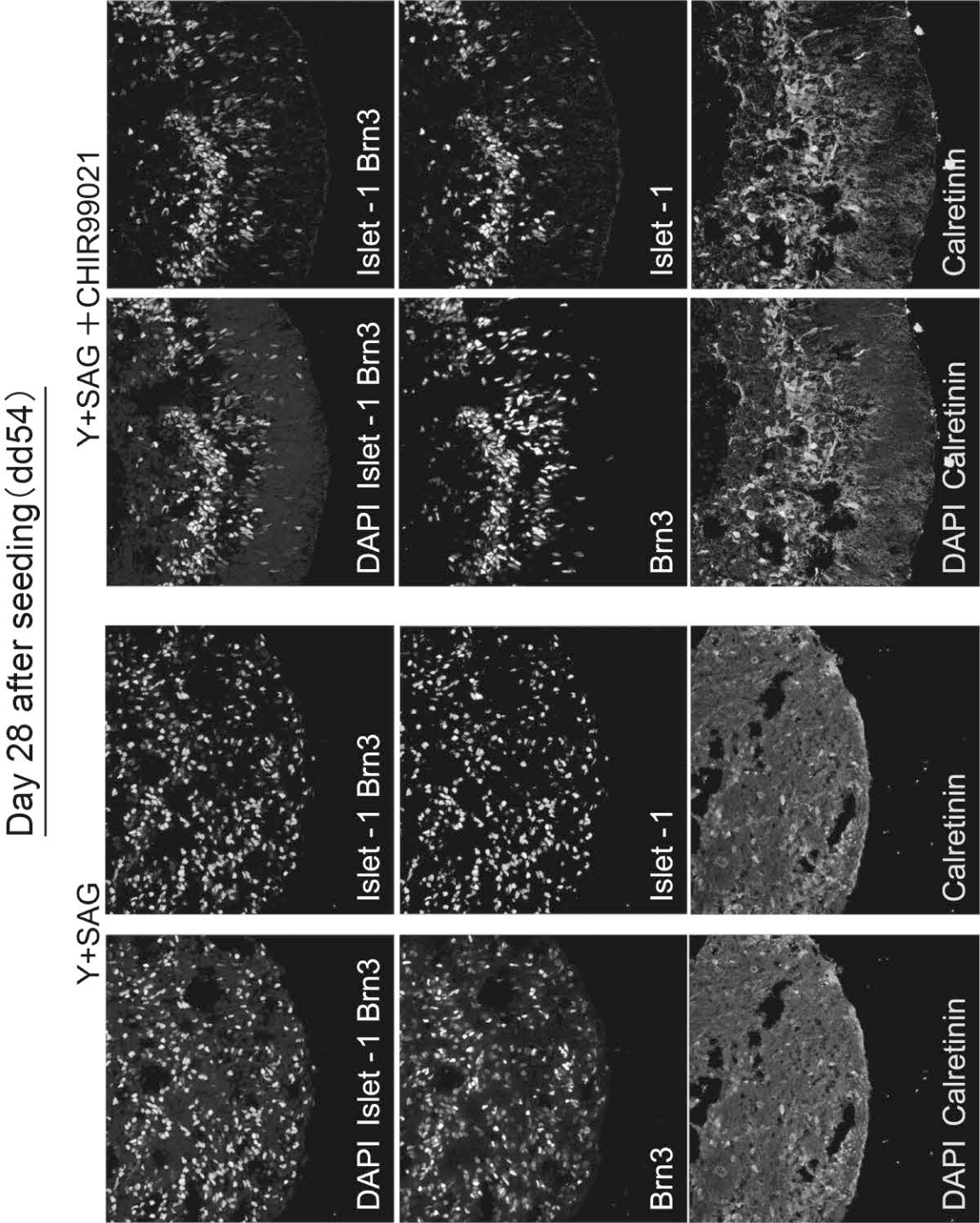


Fig.21

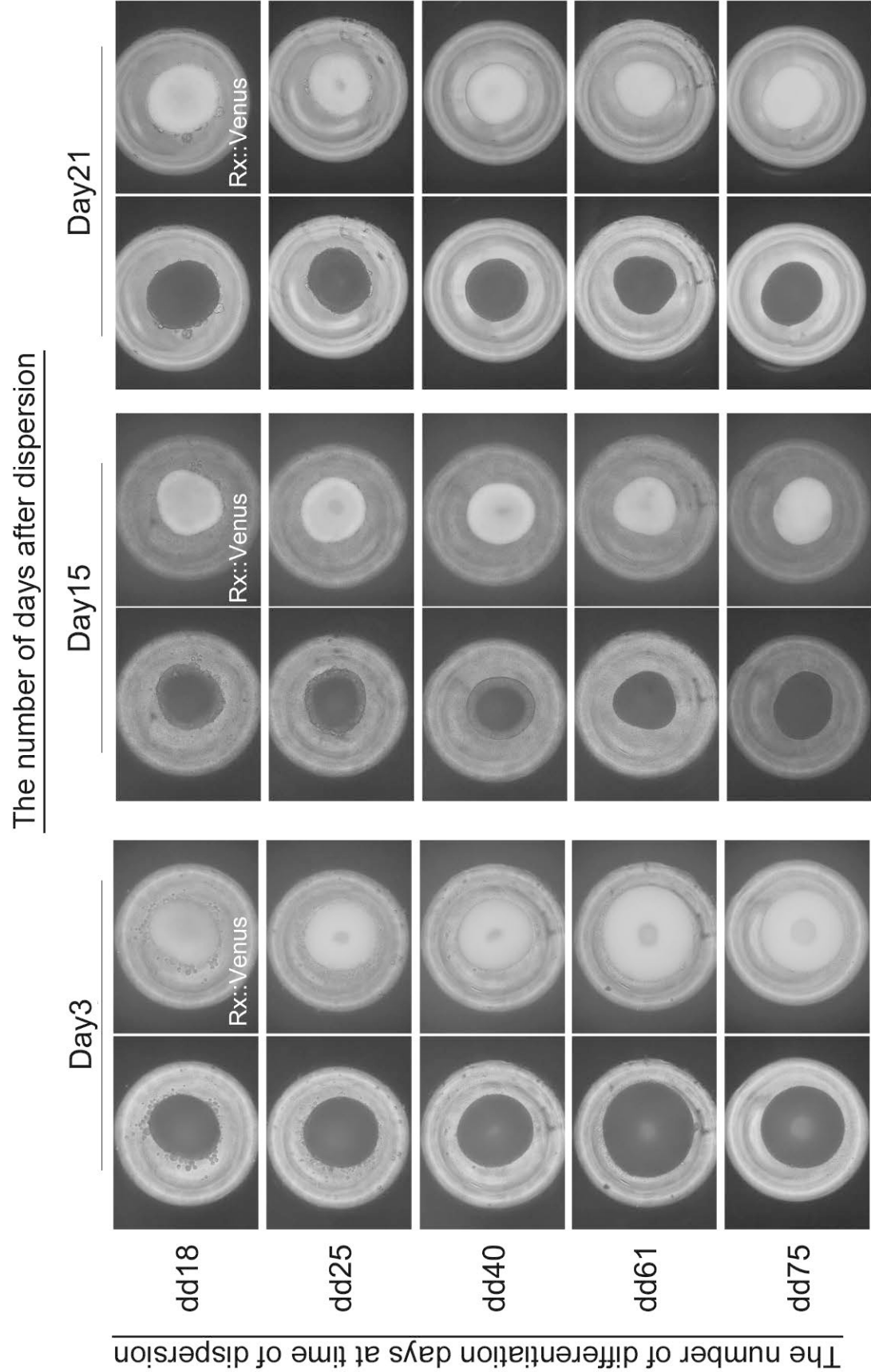


Fig.22

The number of days after dispersion
(the number of differentiation days: 40 days)

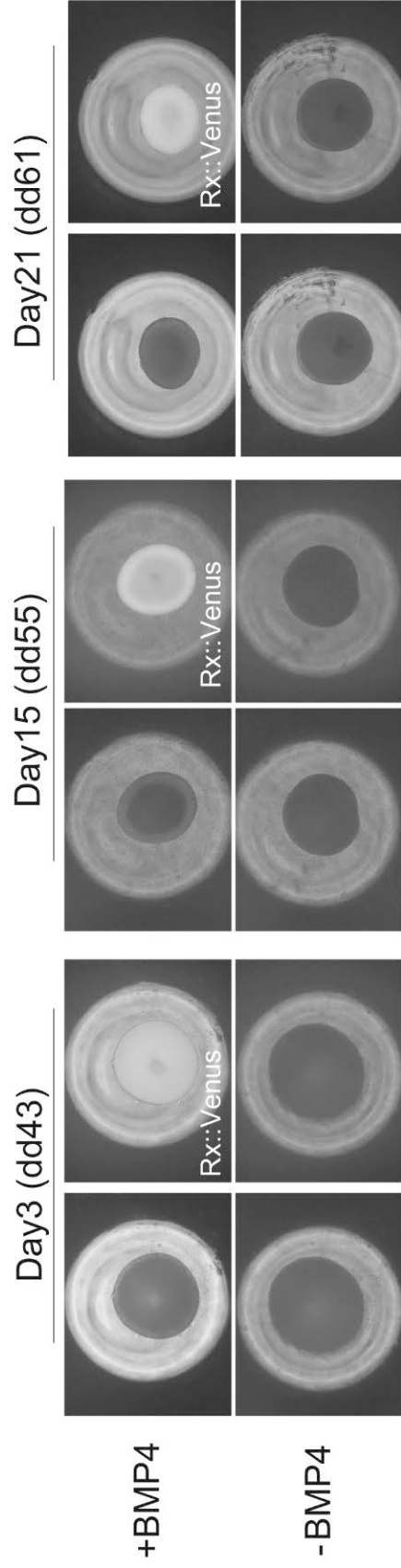


Fig. 23

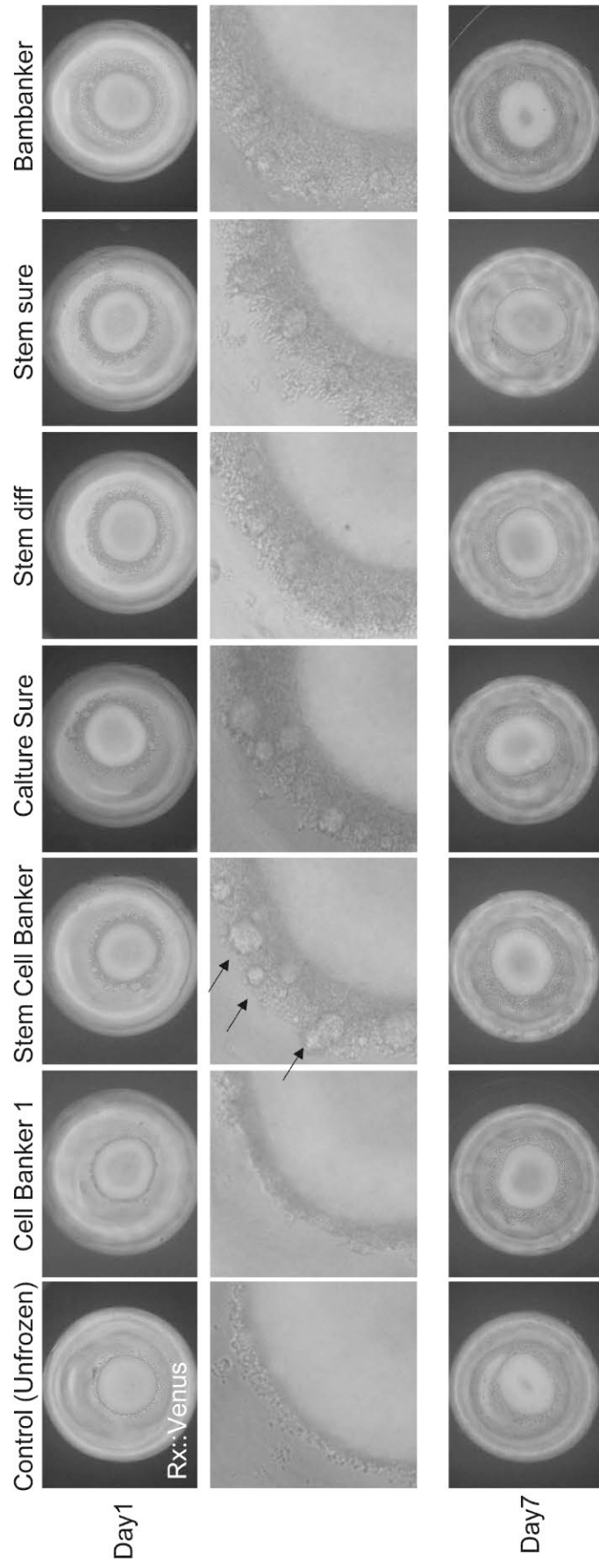


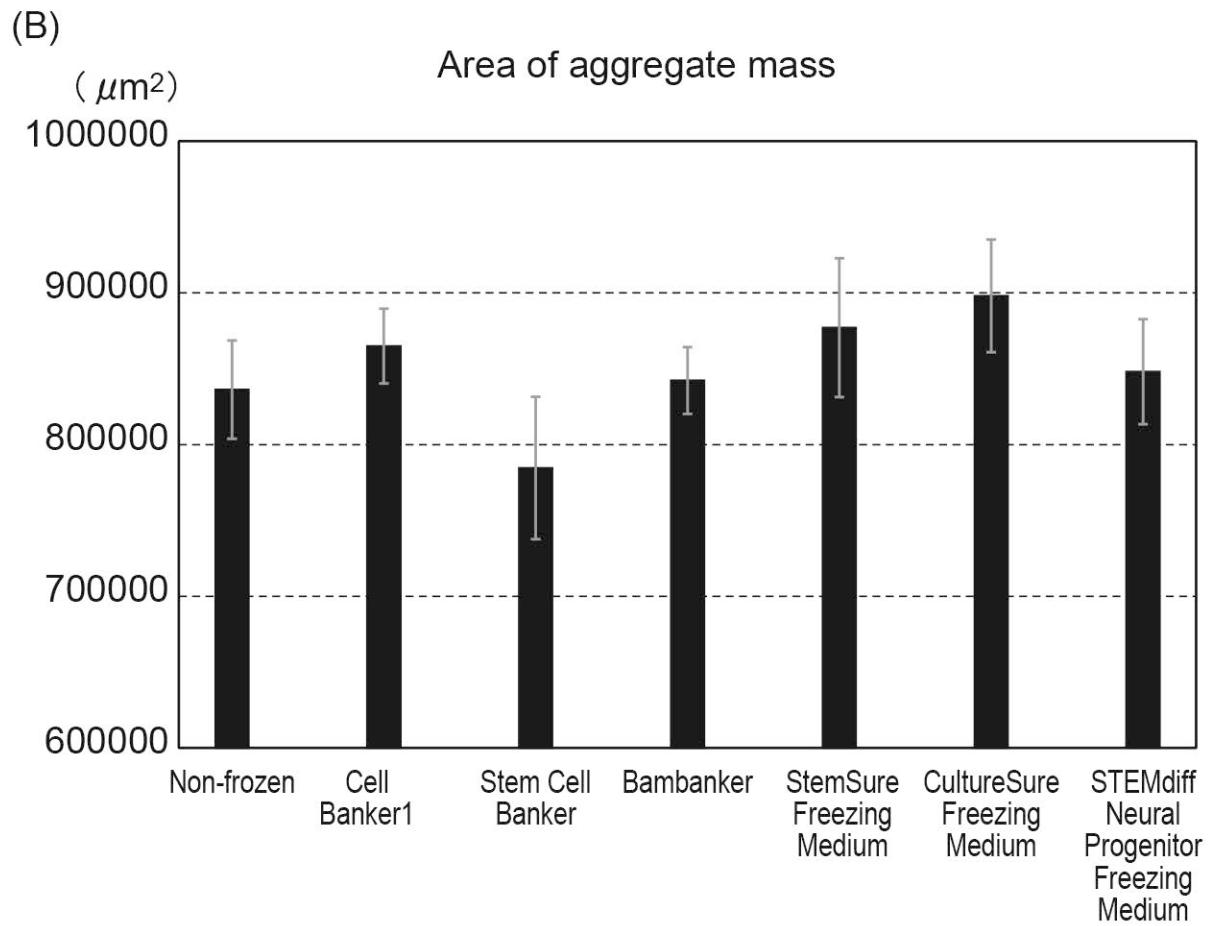
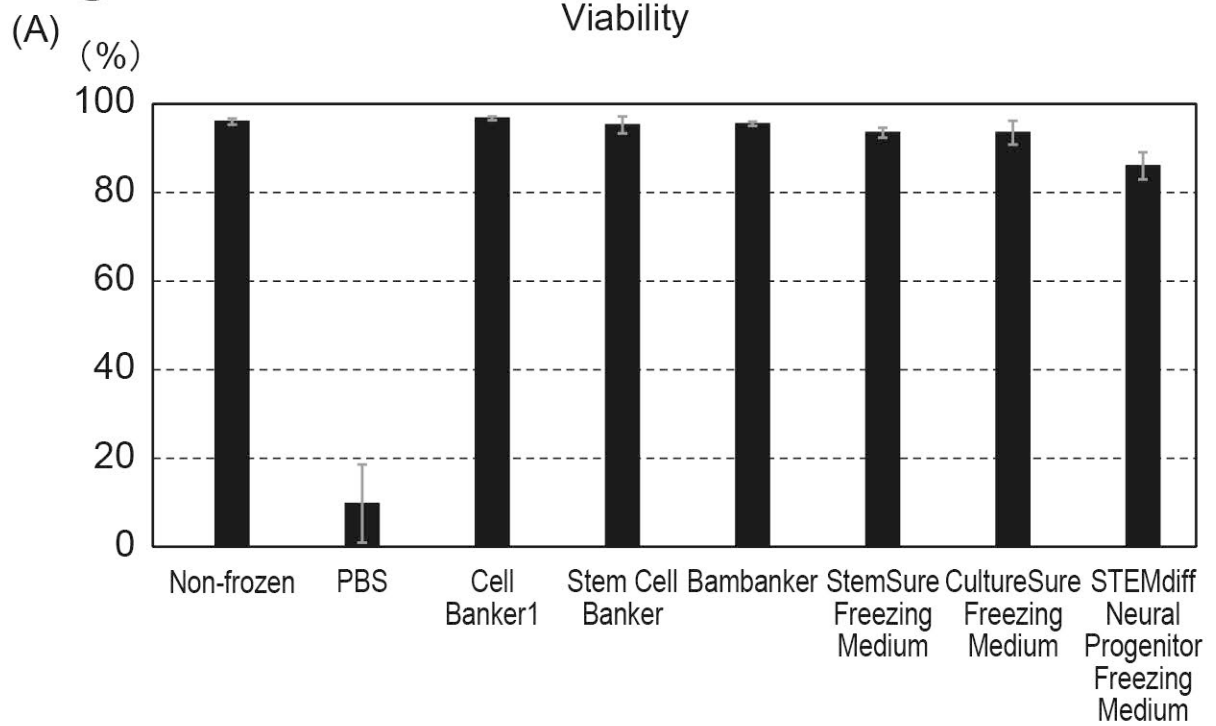
Fig.24

Fig. 25

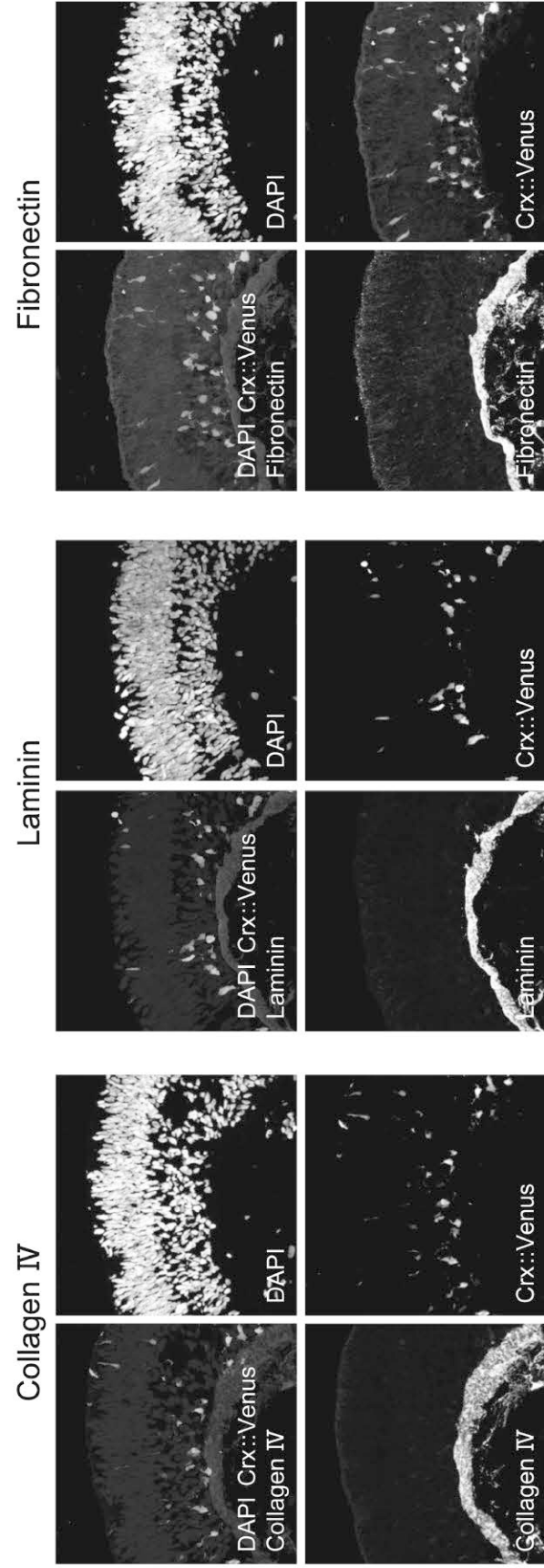


Fig.26

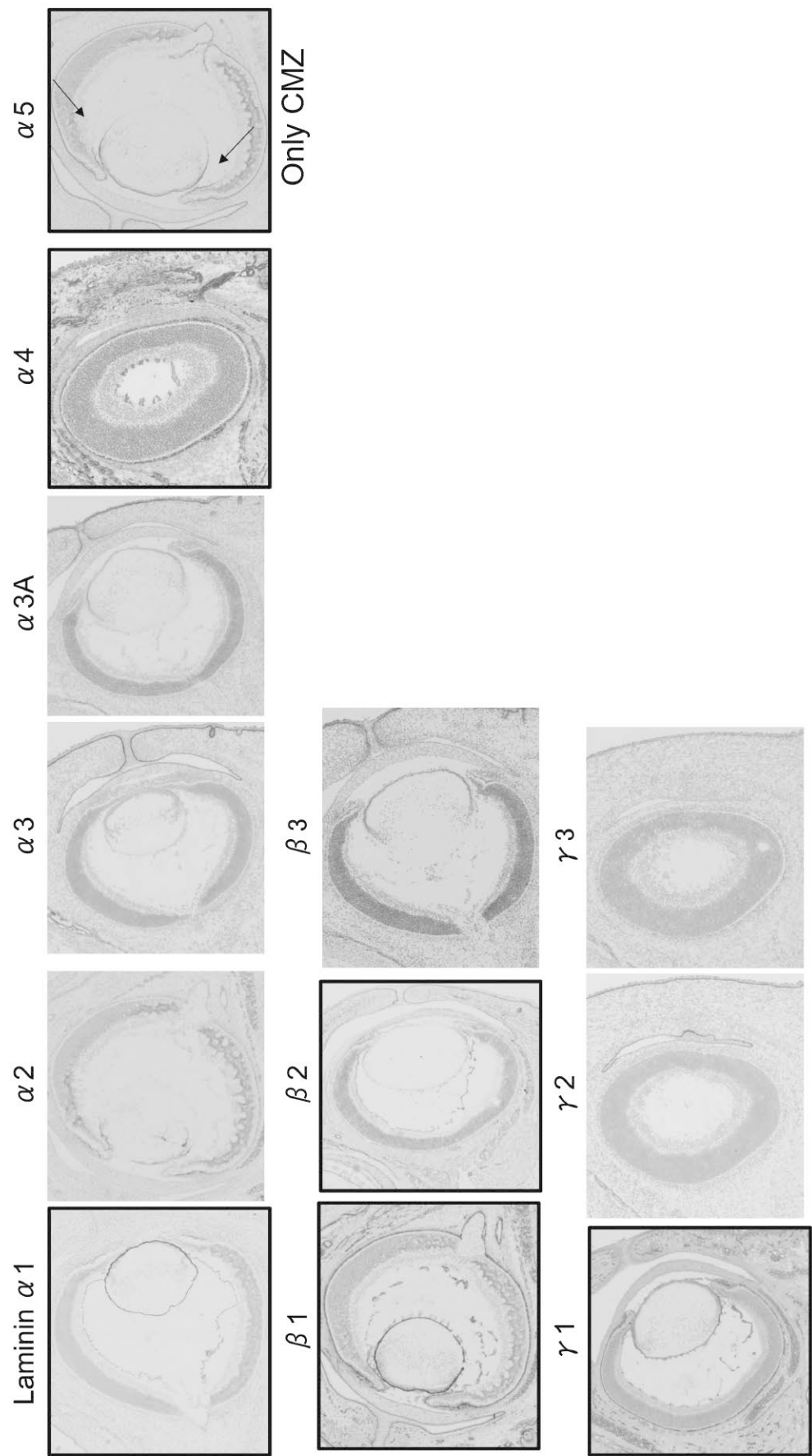


Fig.27

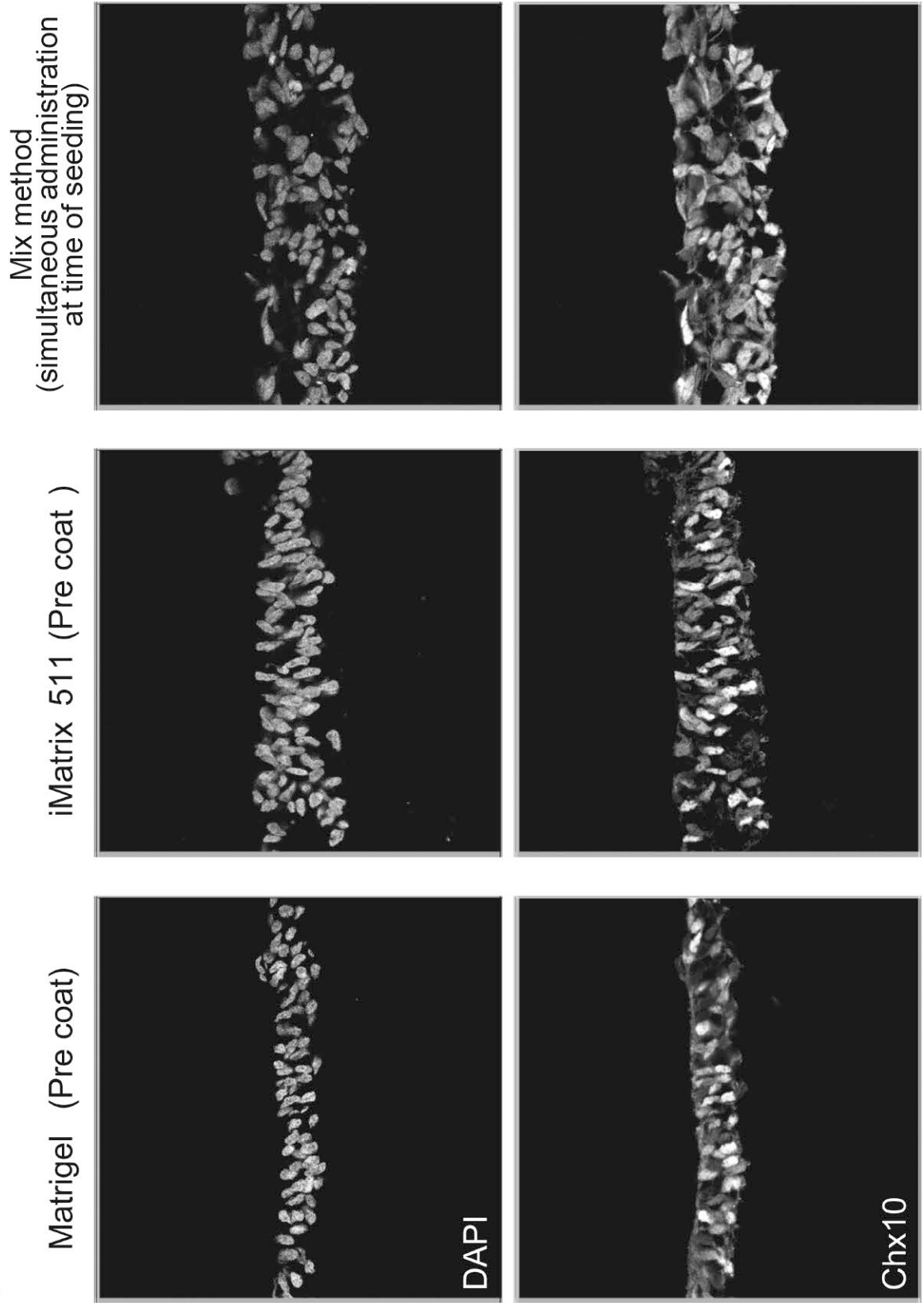


Fig.28

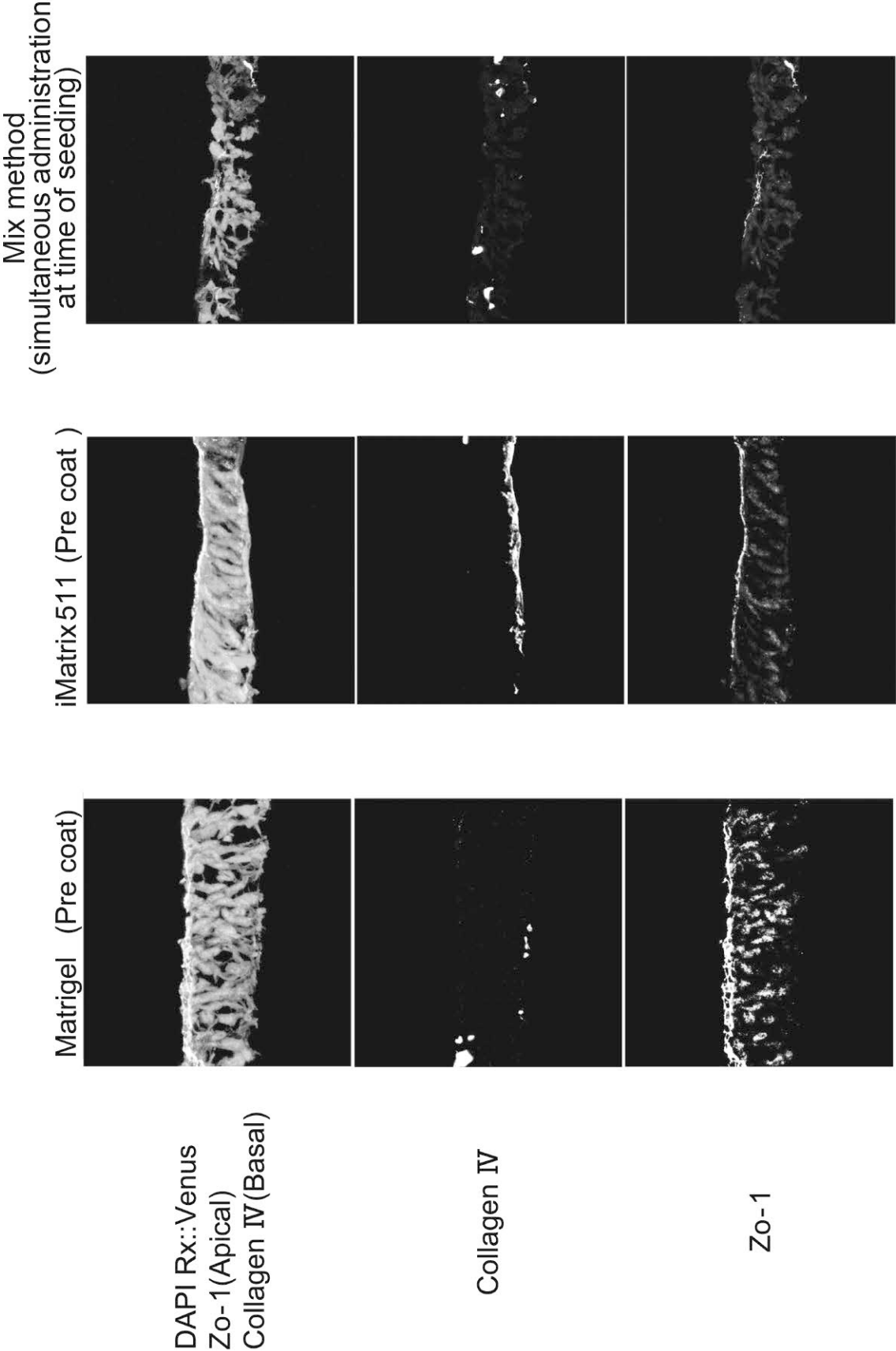


Fig. 29

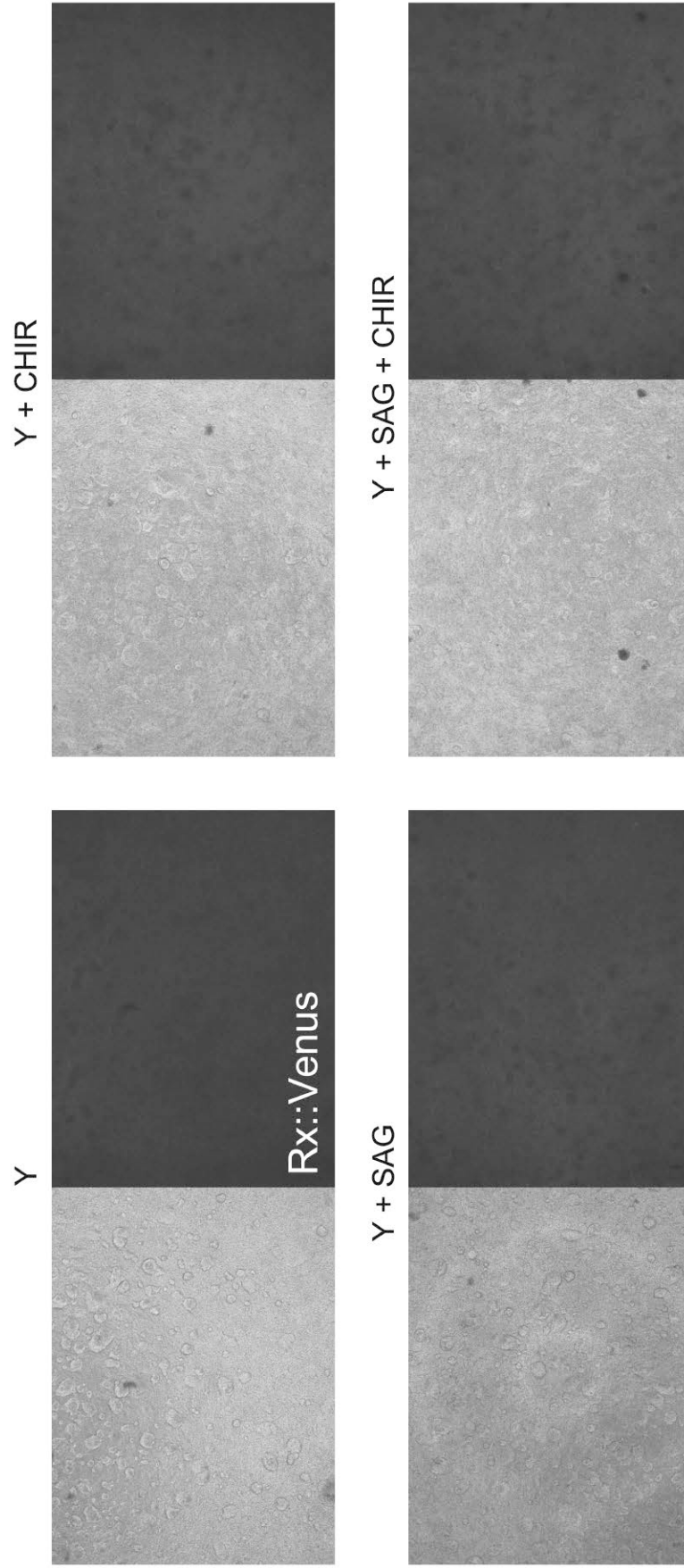


Fig.30

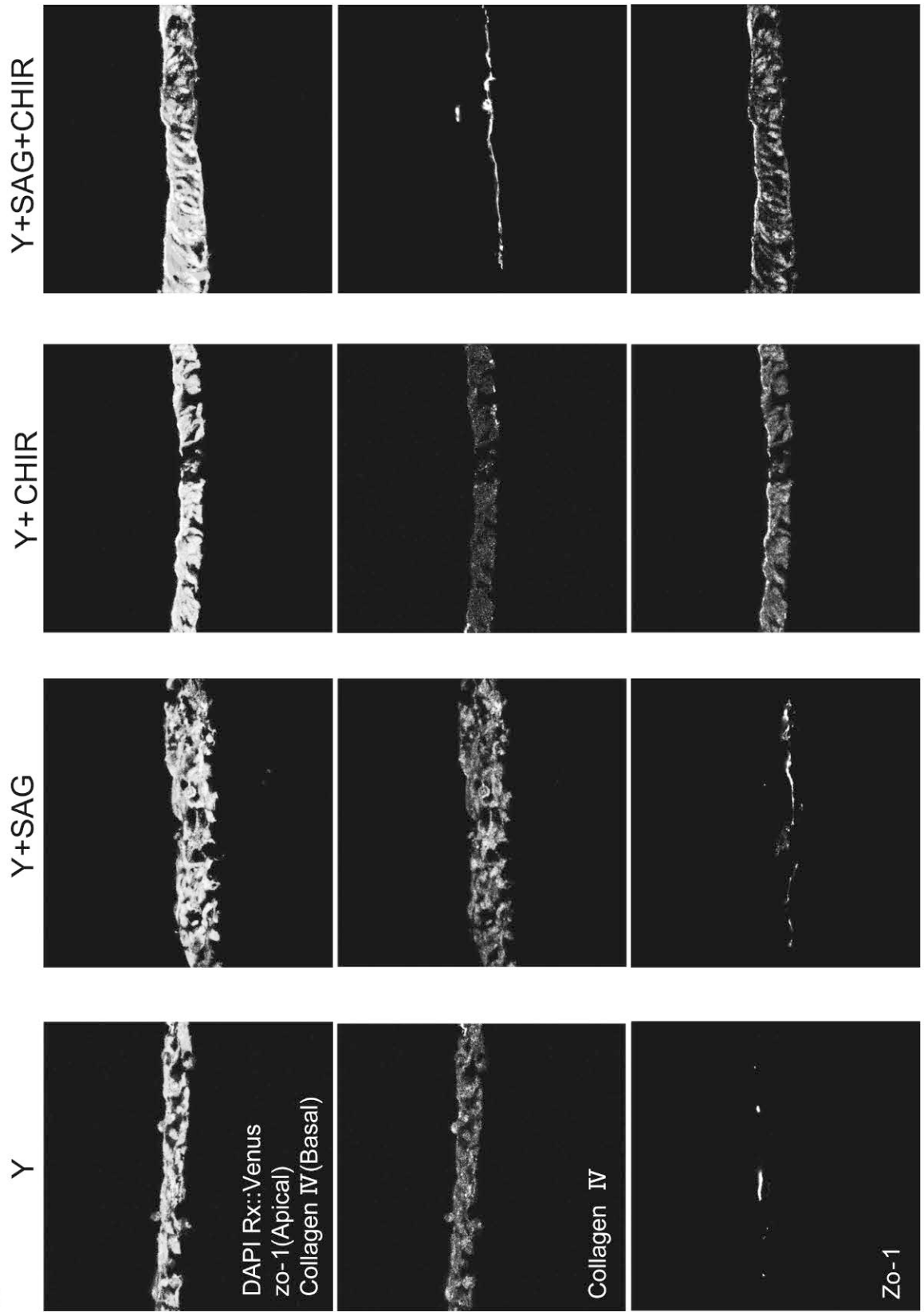


Fig.31

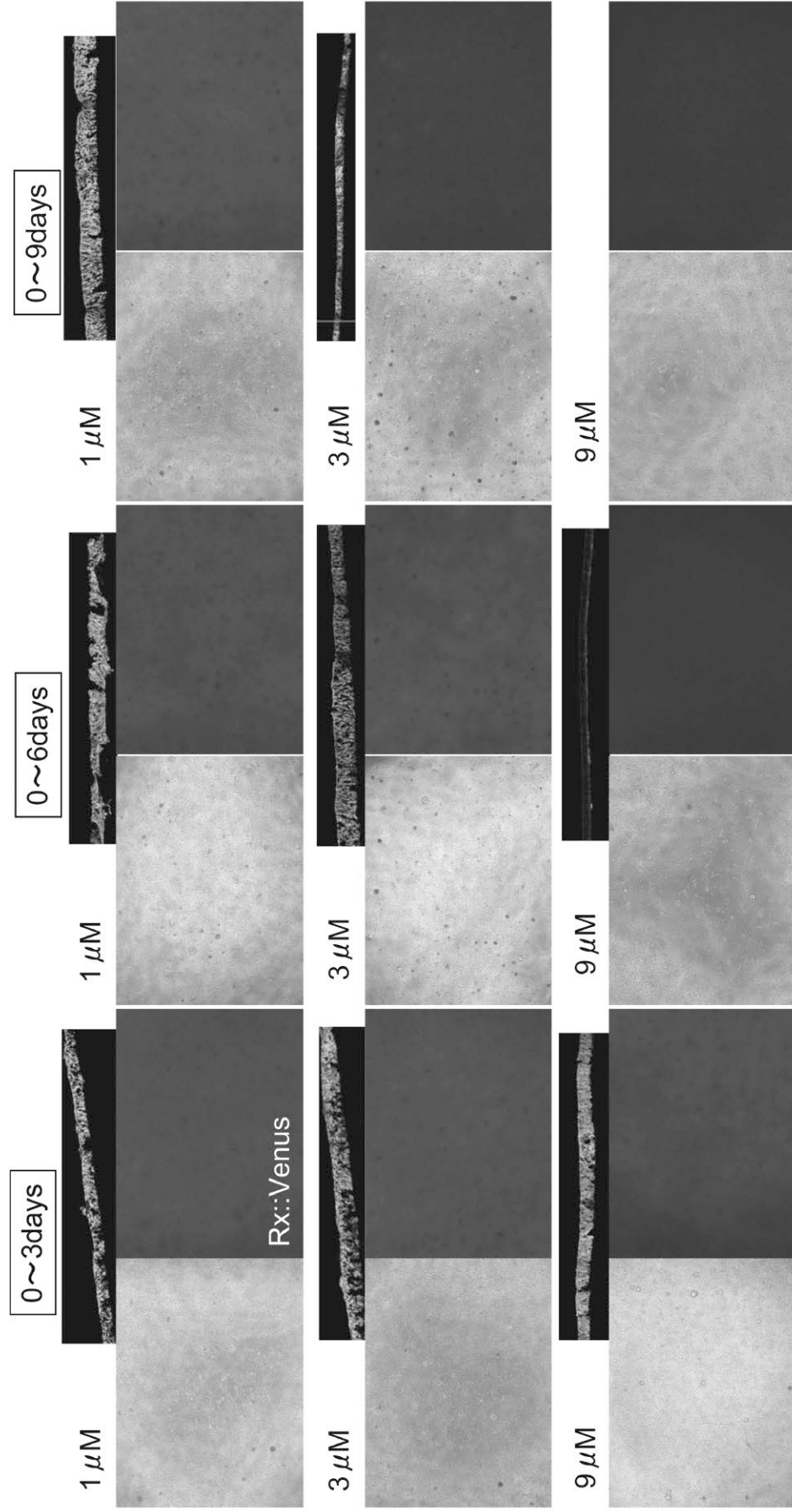


Fig.32

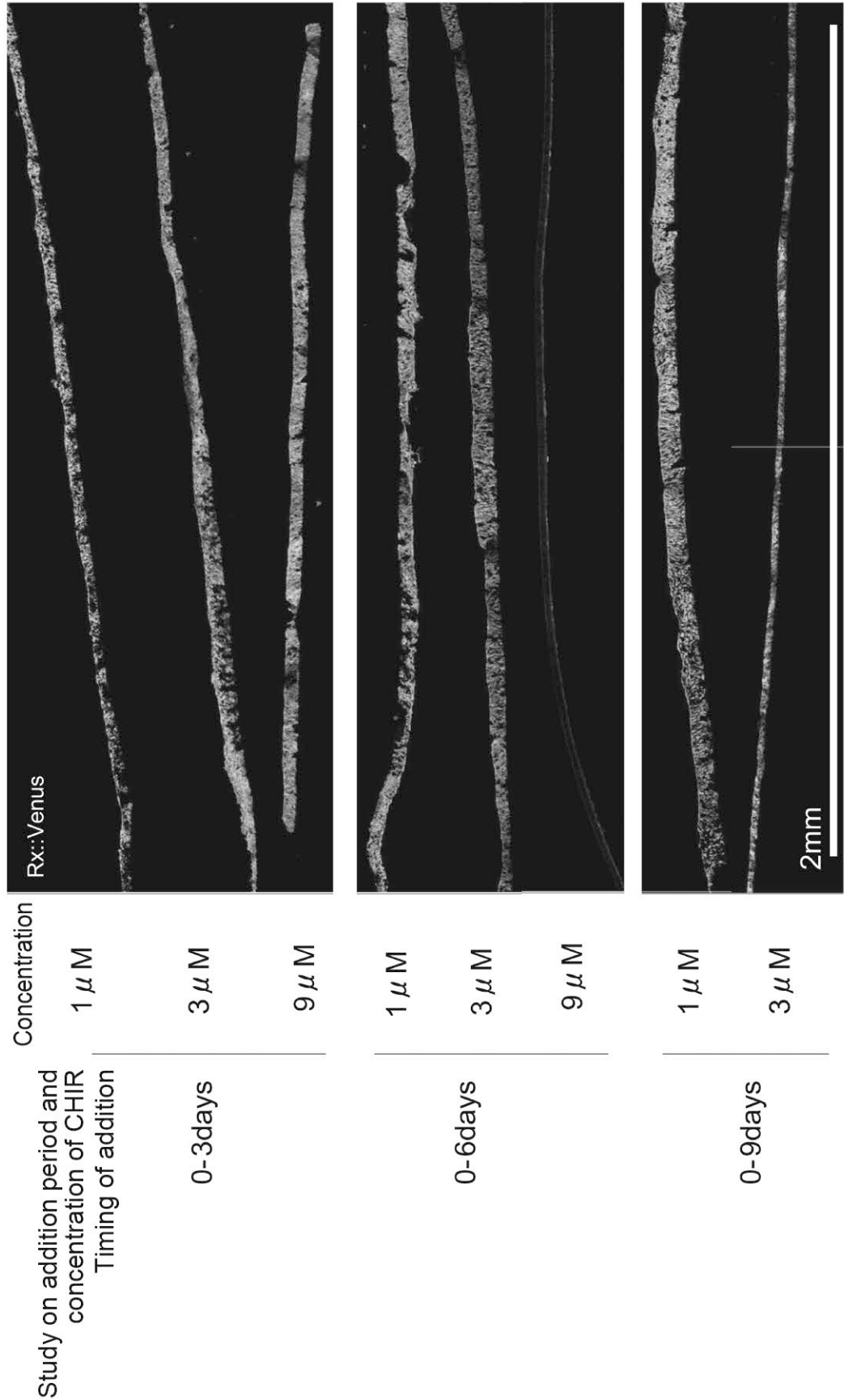


Fig.33

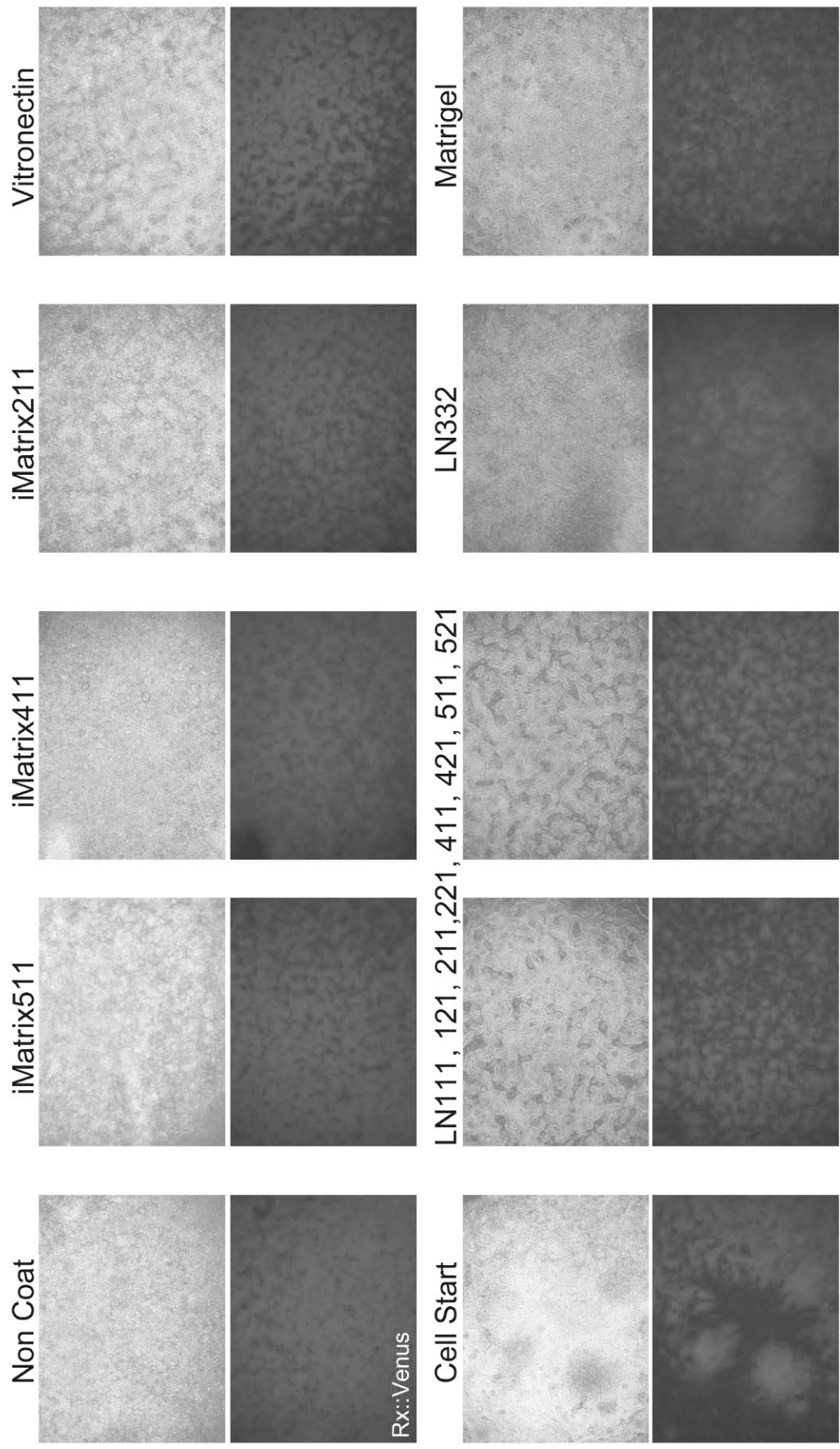


Fig.34

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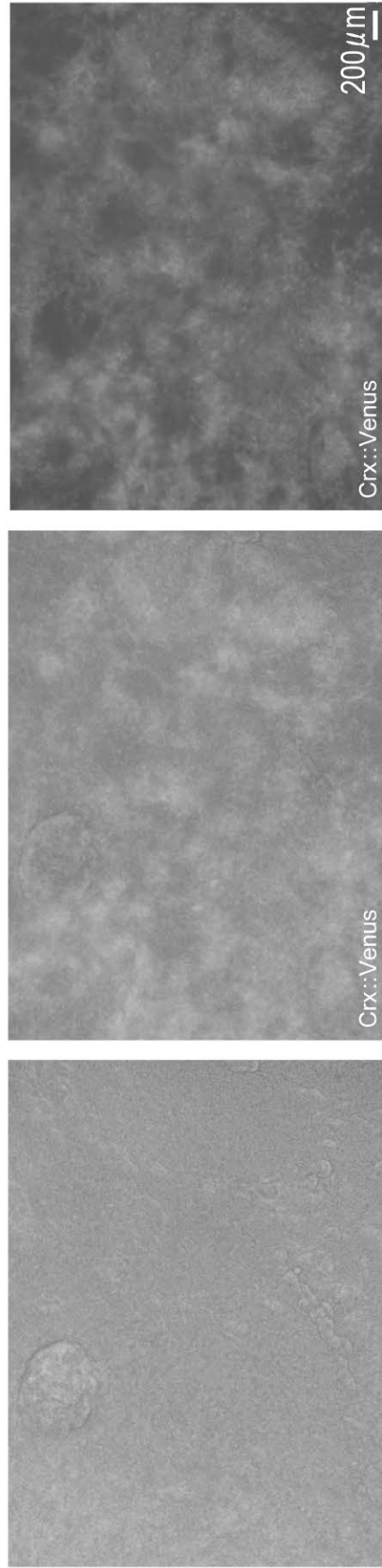


Fig.35

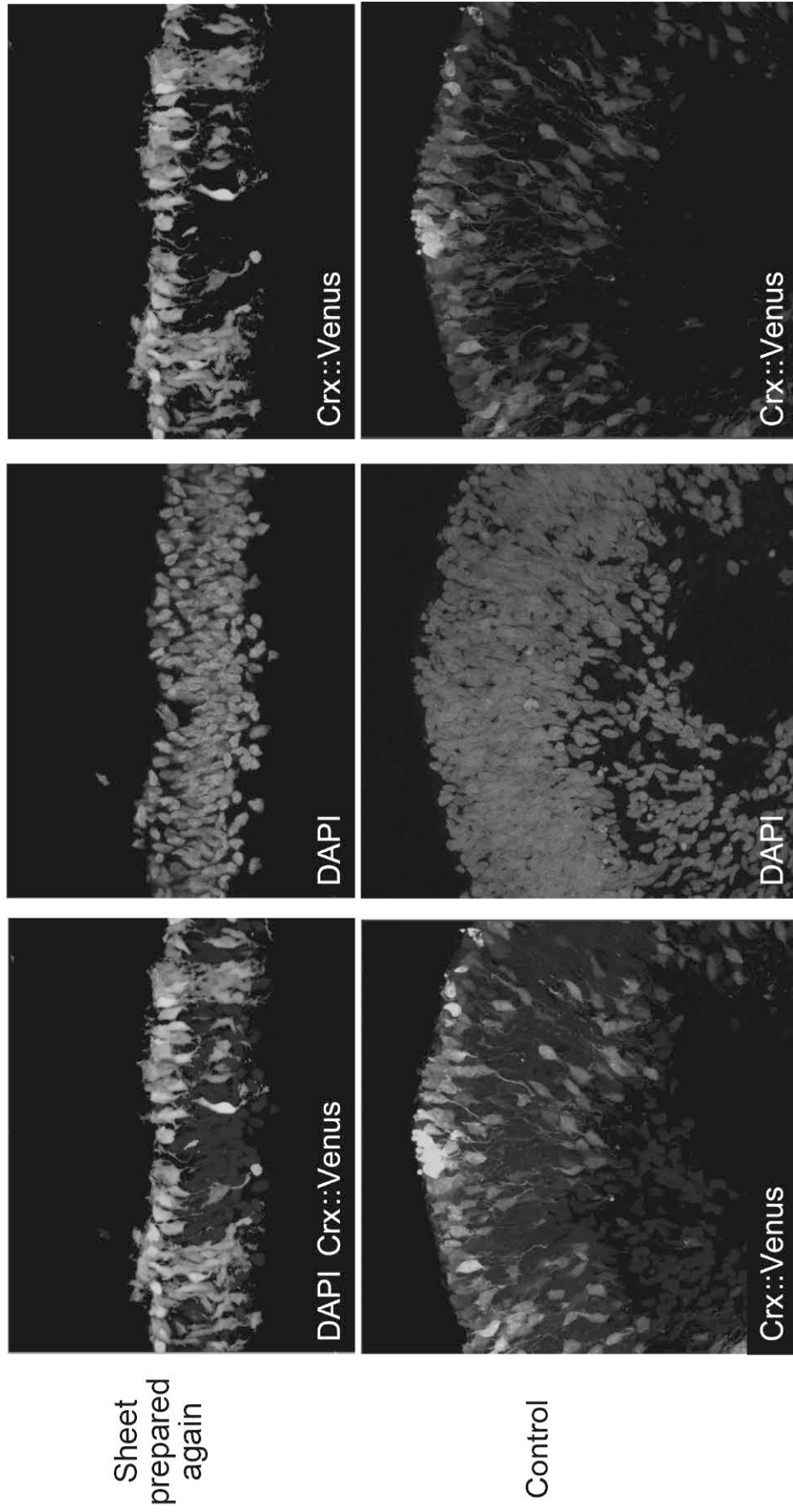


Fig.36

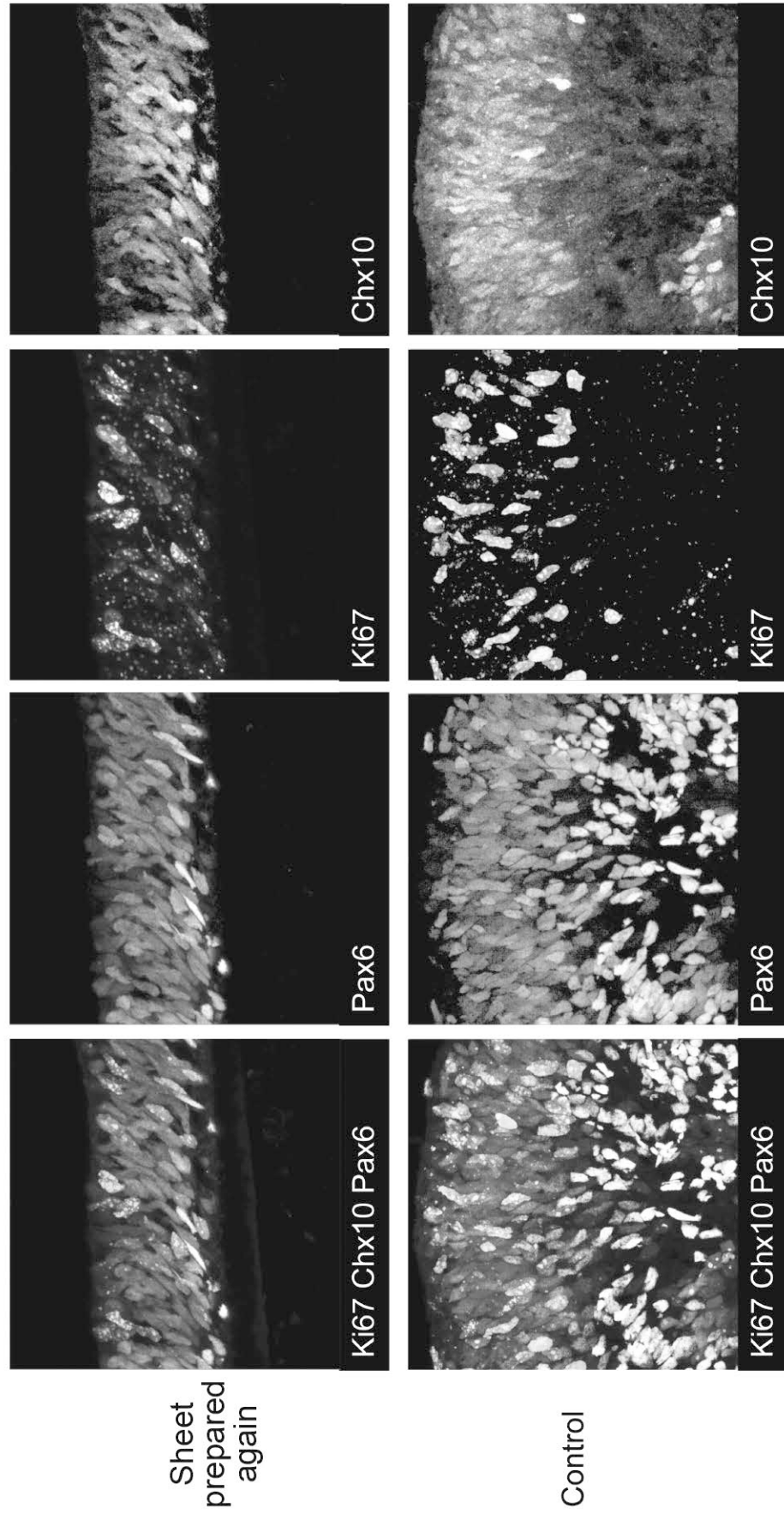


Fig.37

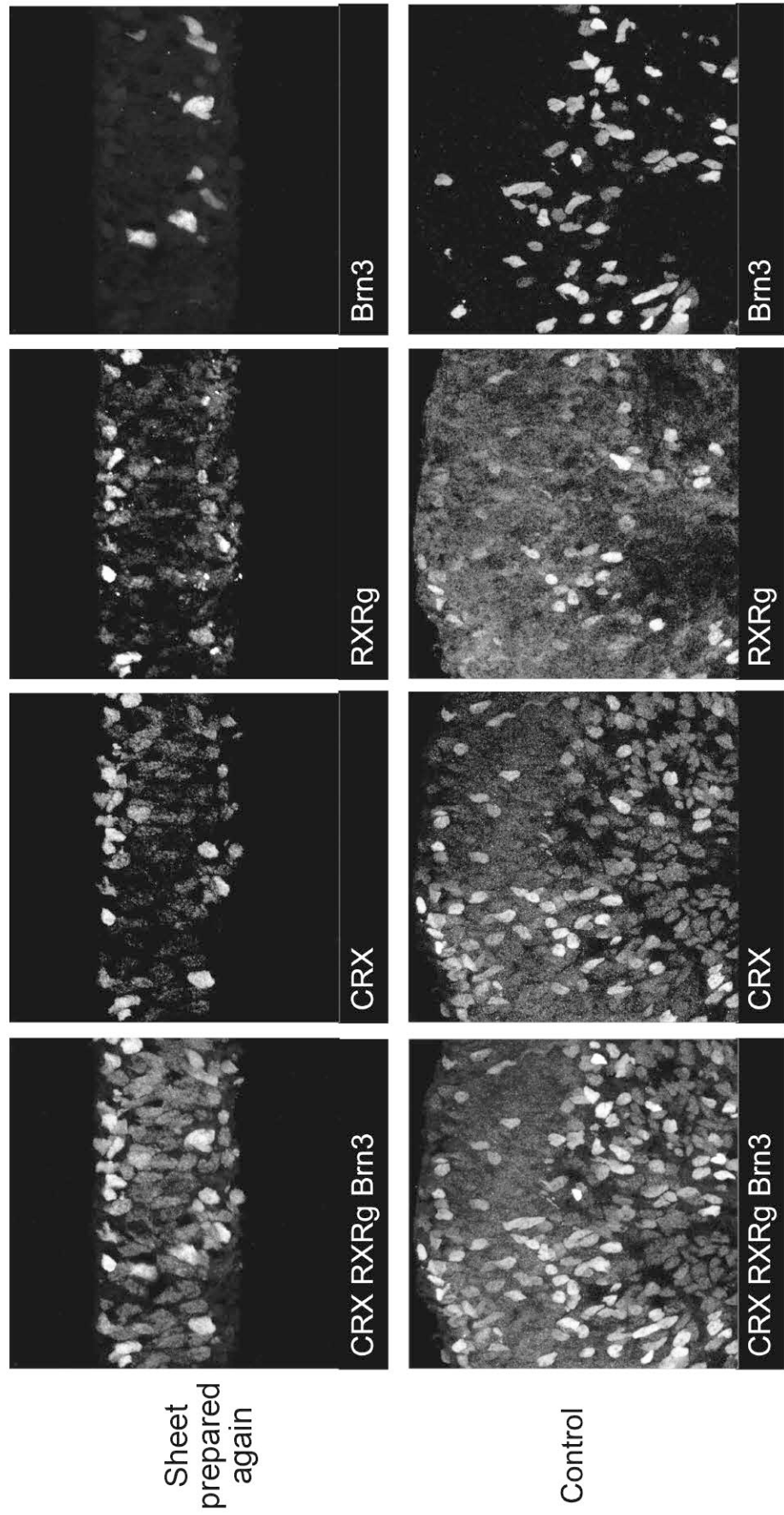
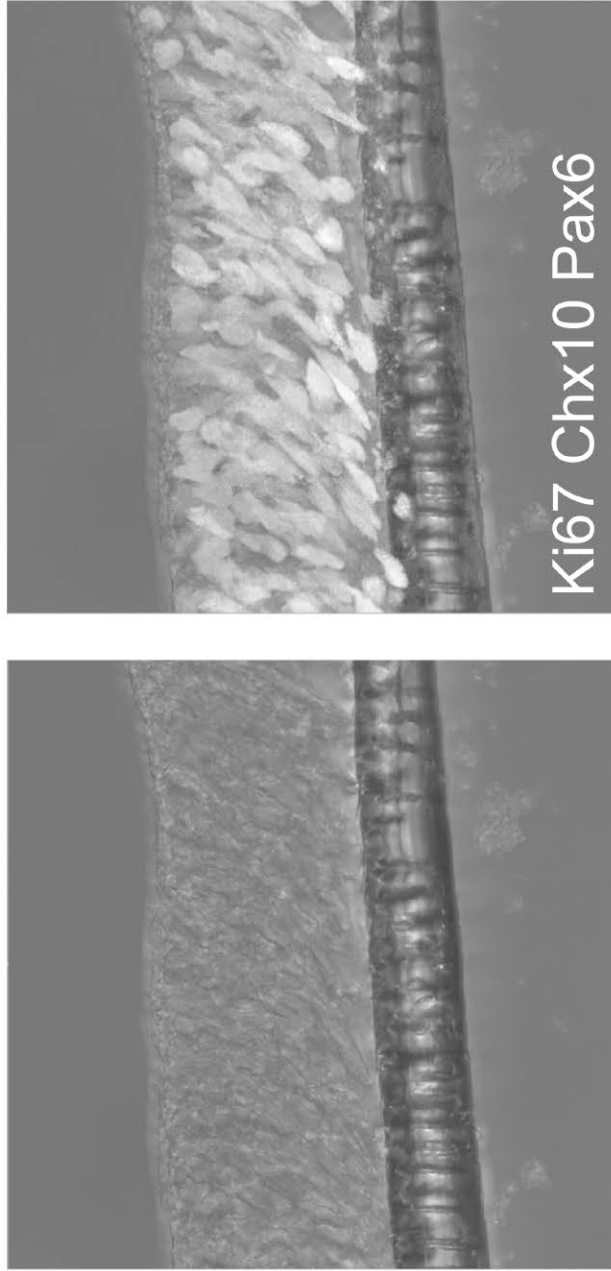


Fig.38

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Transwell mesh

Fig.39

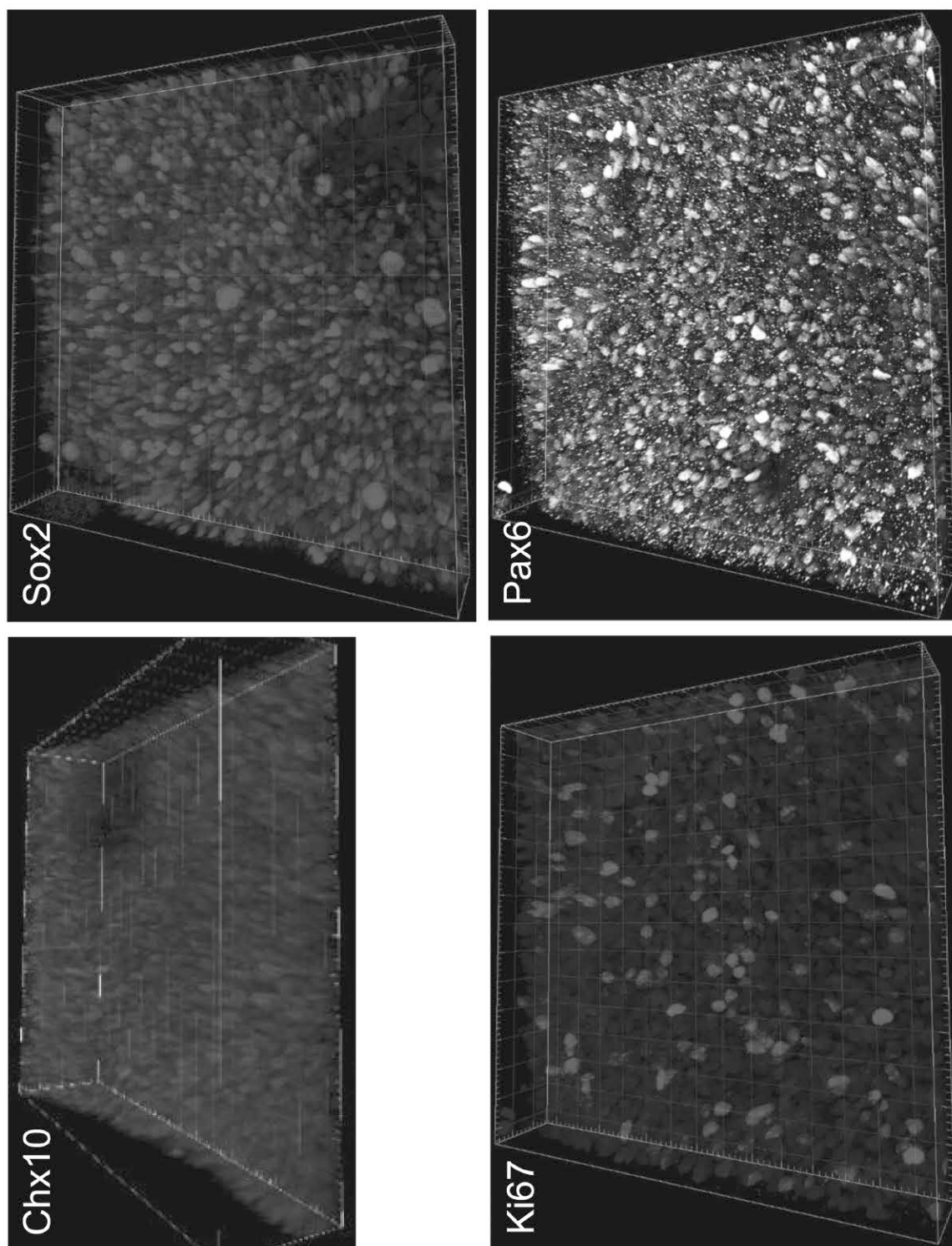


Fig.40

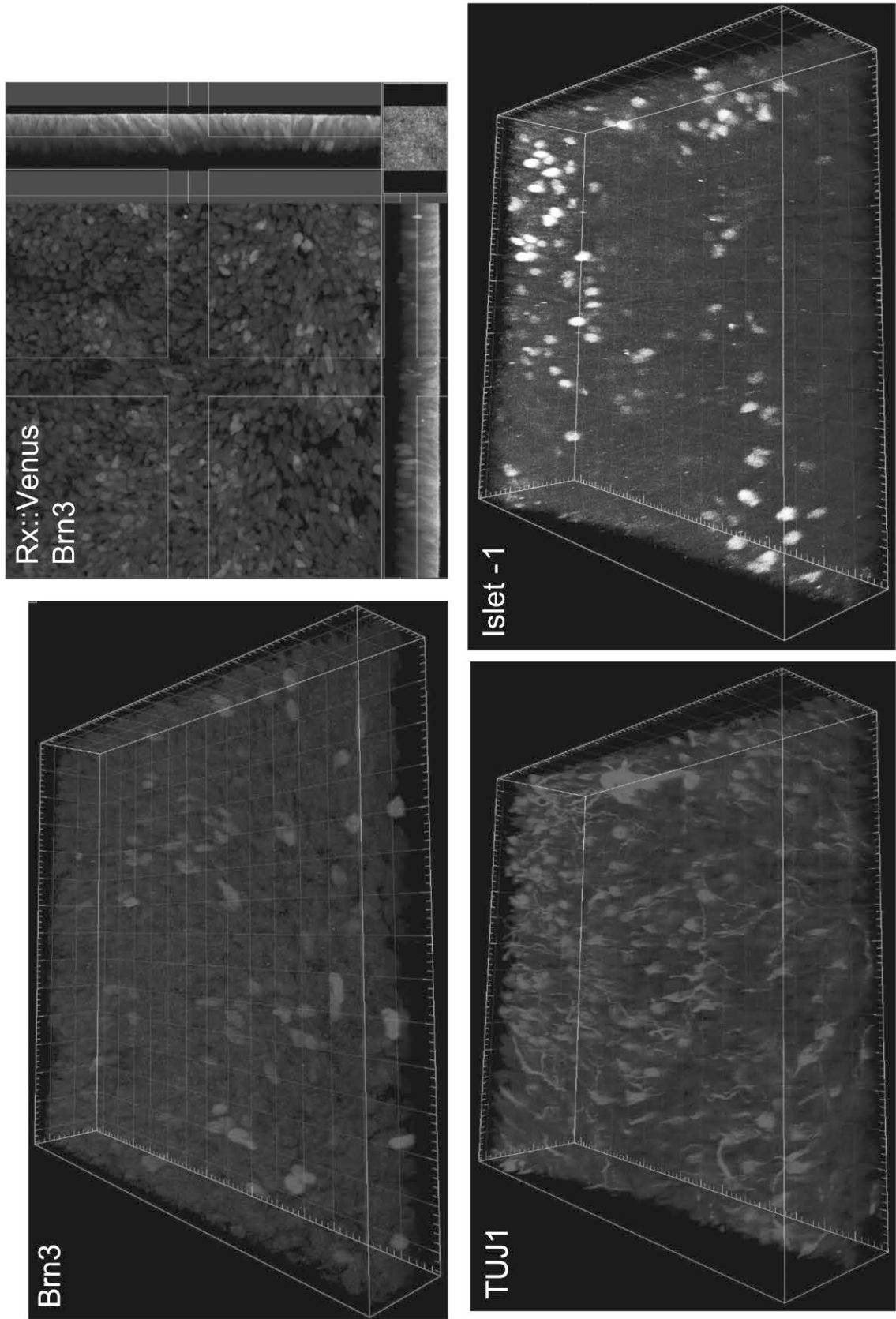


Fig.41

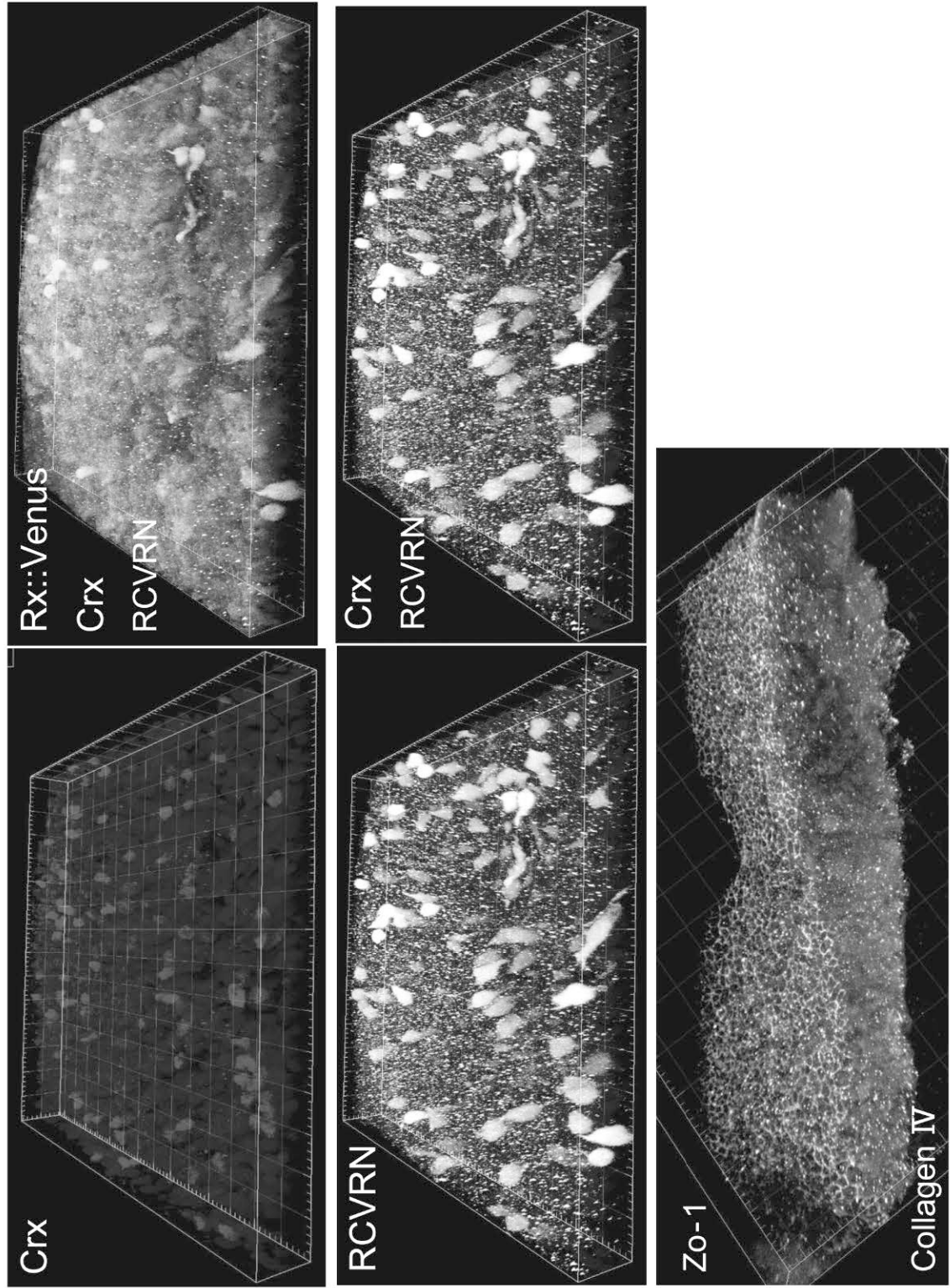


Fig.42

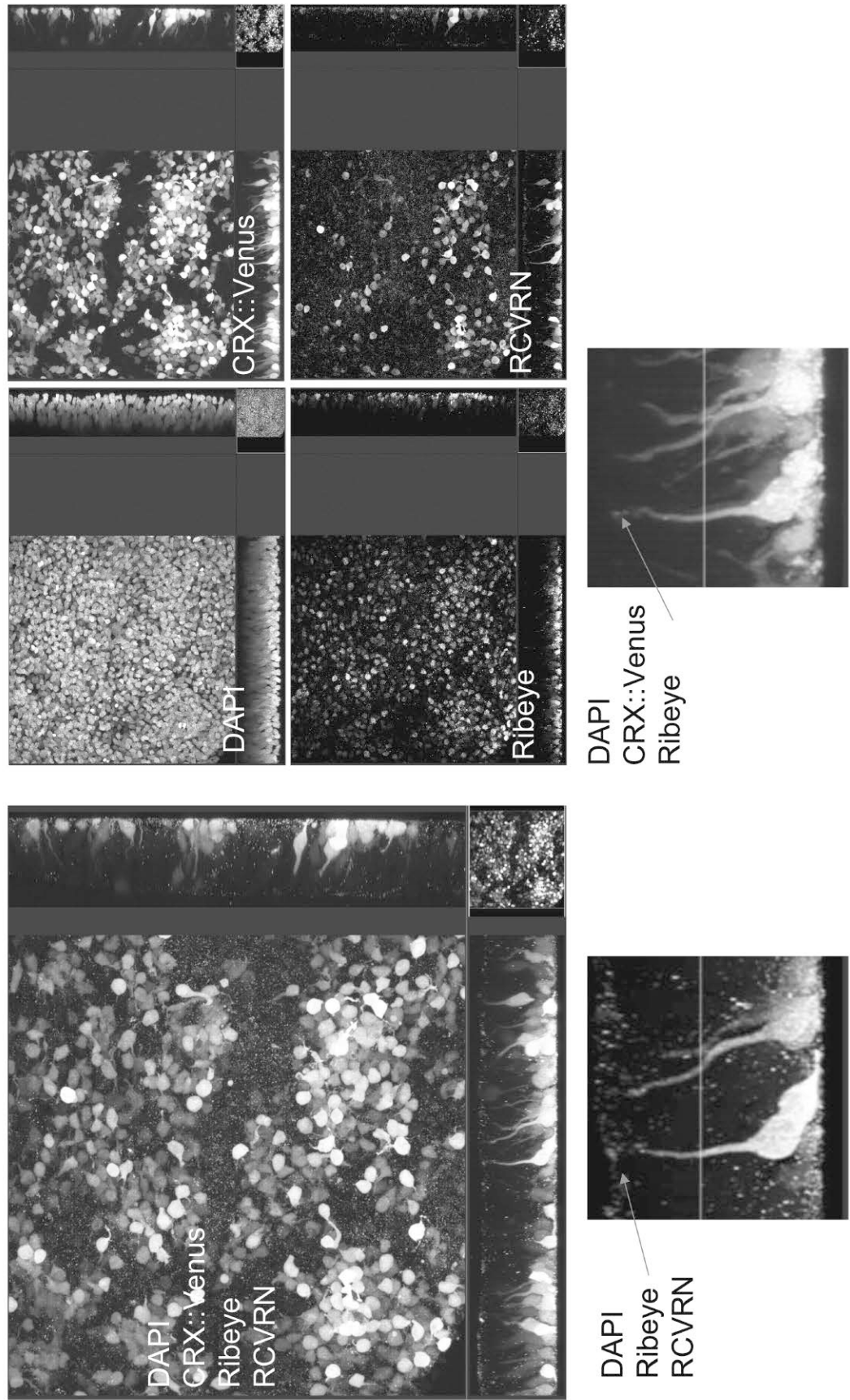


Fig.43

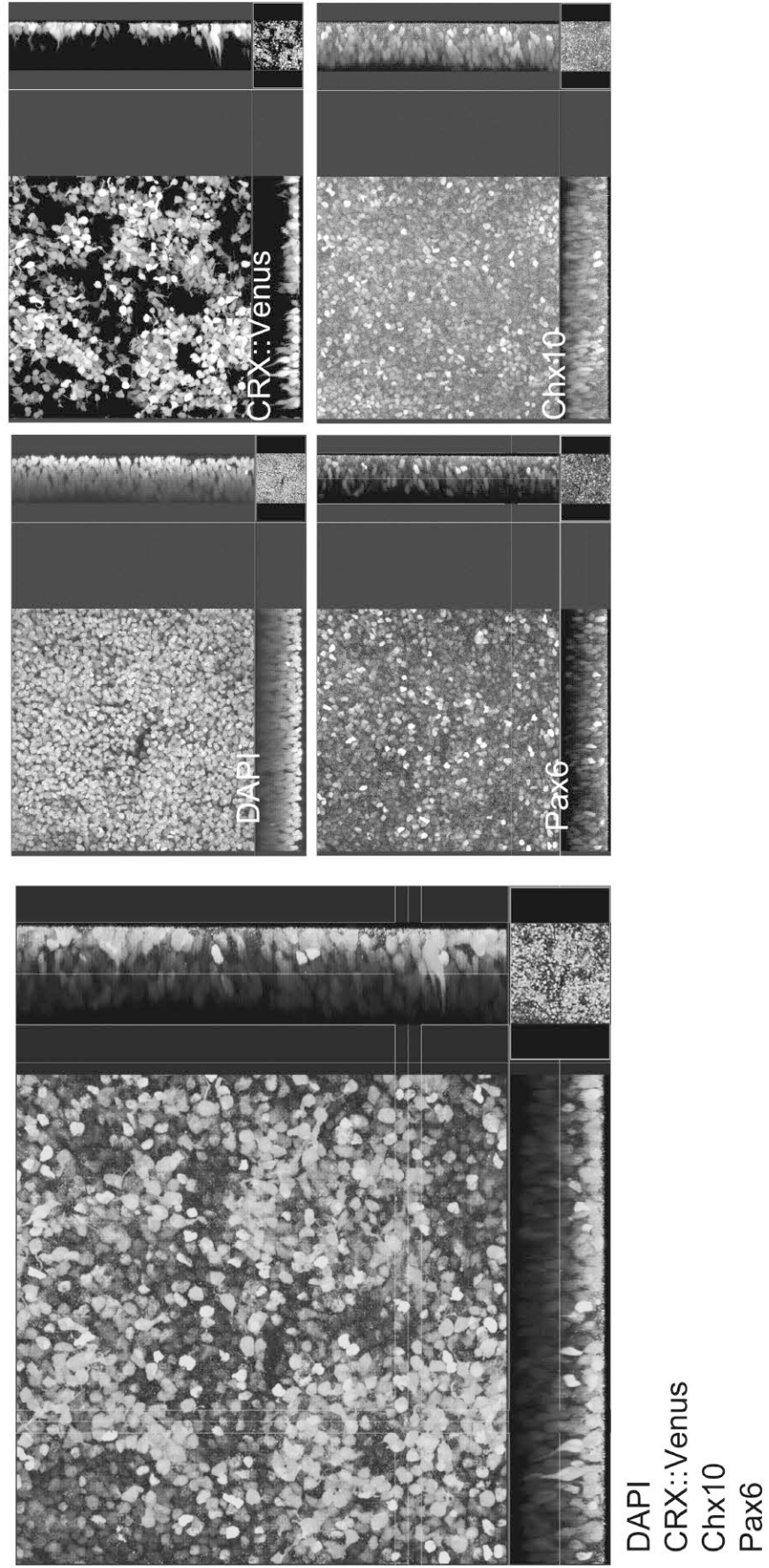


Fig.44

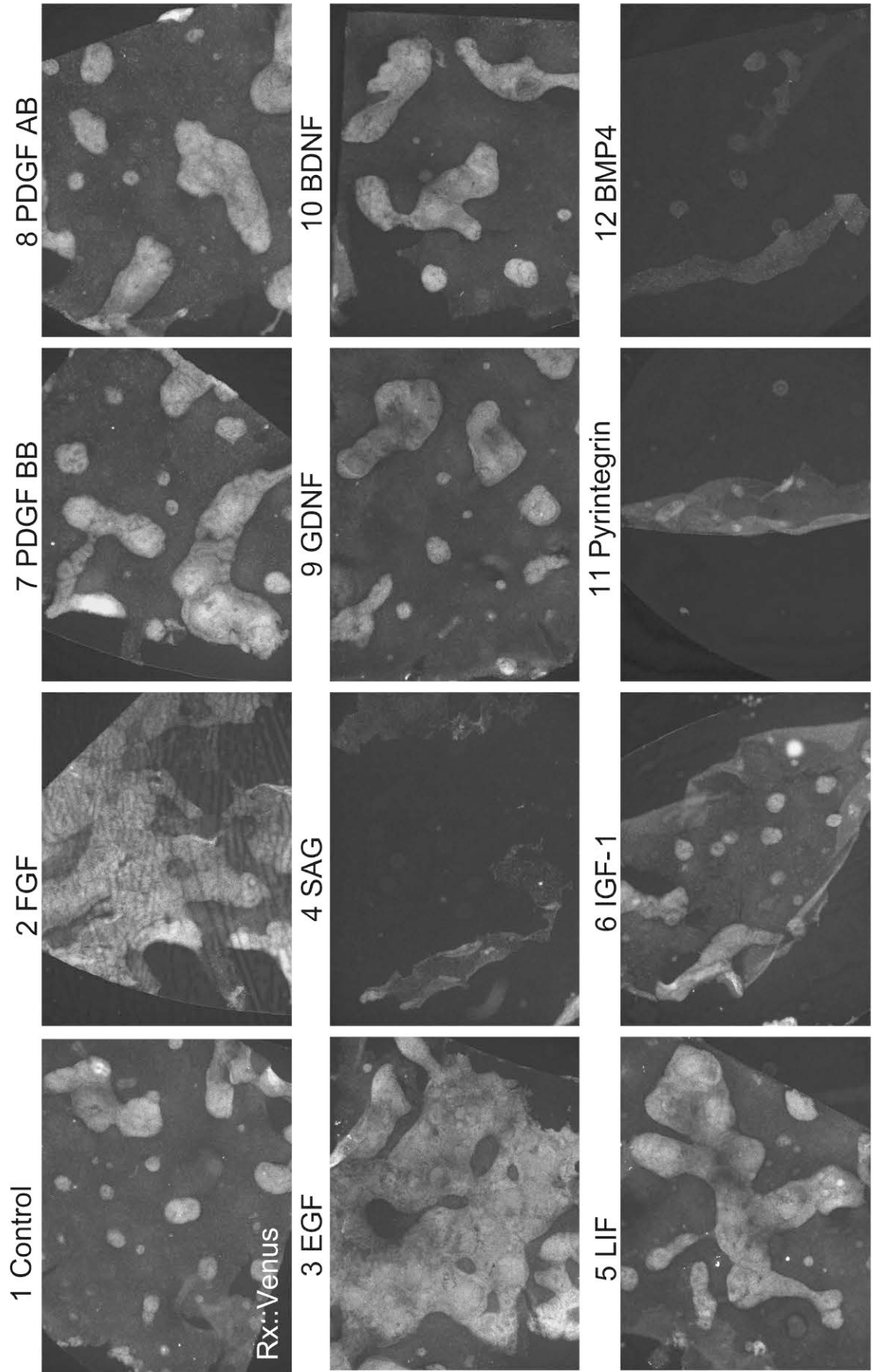


Fig.45

NucT0→T1

(Differentiation proceeds)



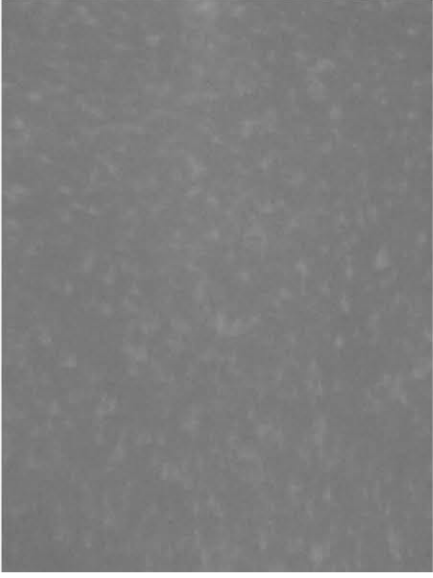
Same exposure time

Neuro Cult NS-A



RHB-A

STEMdiff Neural Progenitor



StemPro NSC SFM

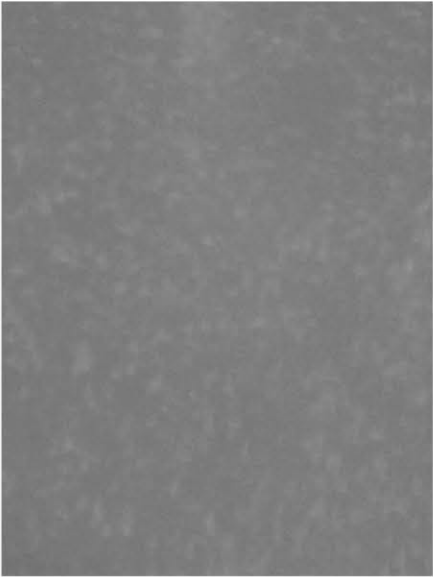


Fig.46

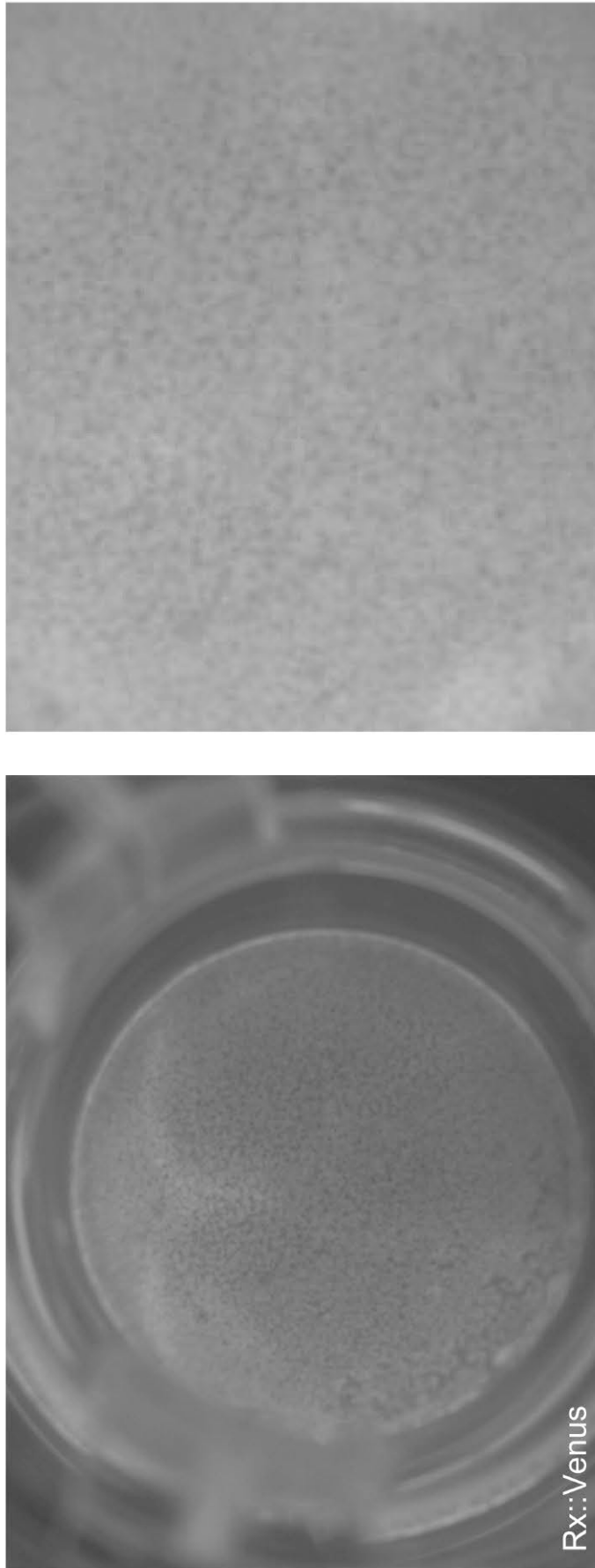


Fig.47

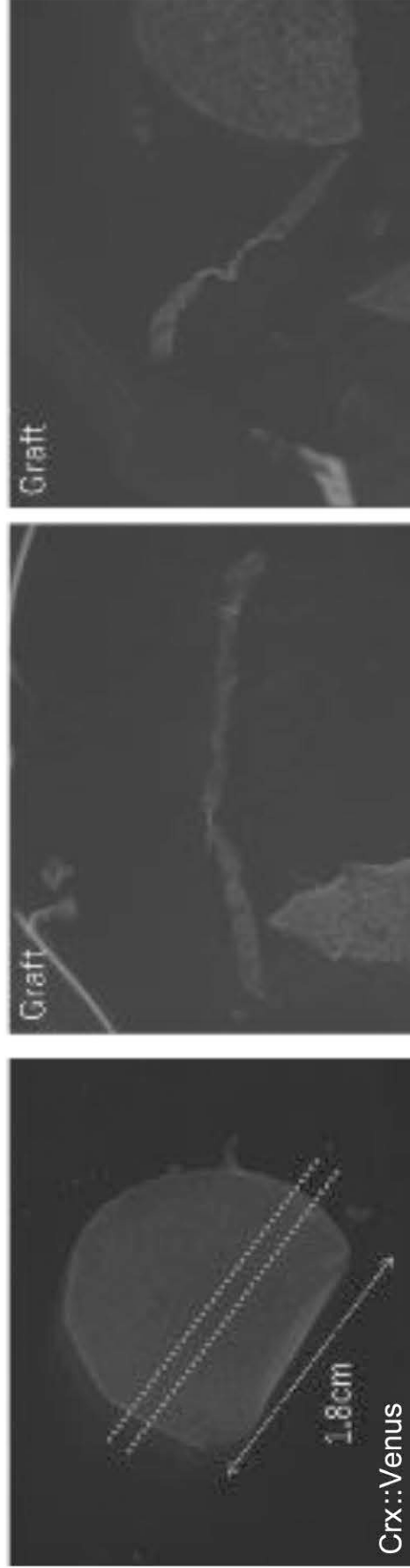


Fig.48

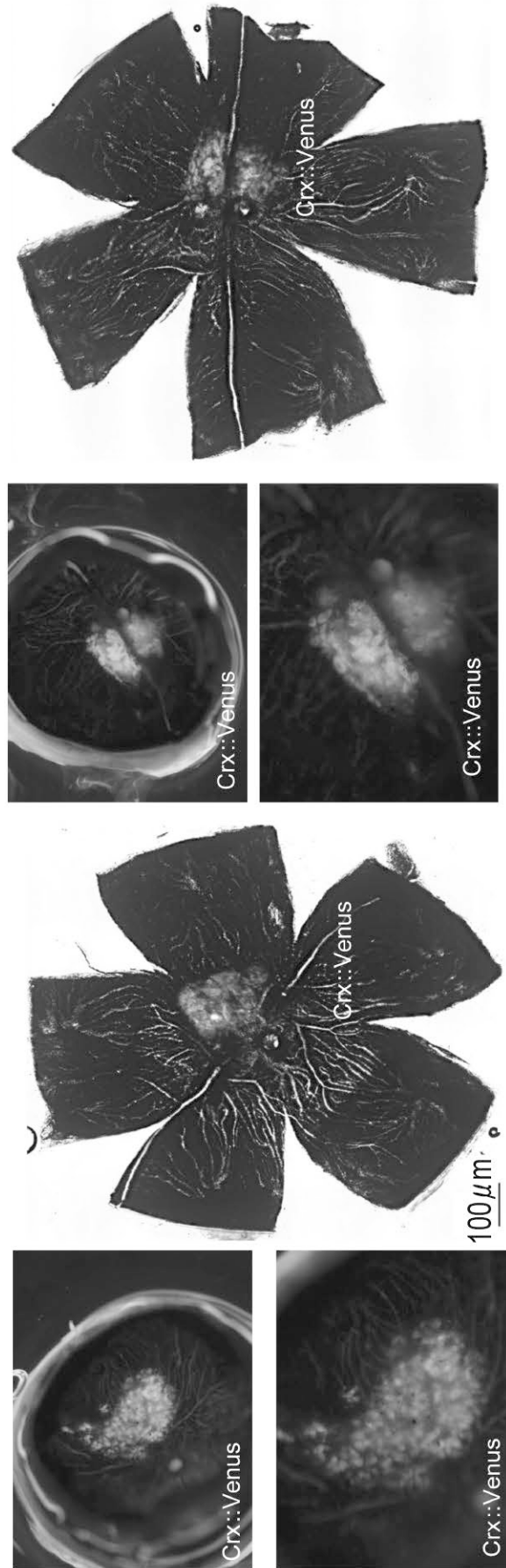
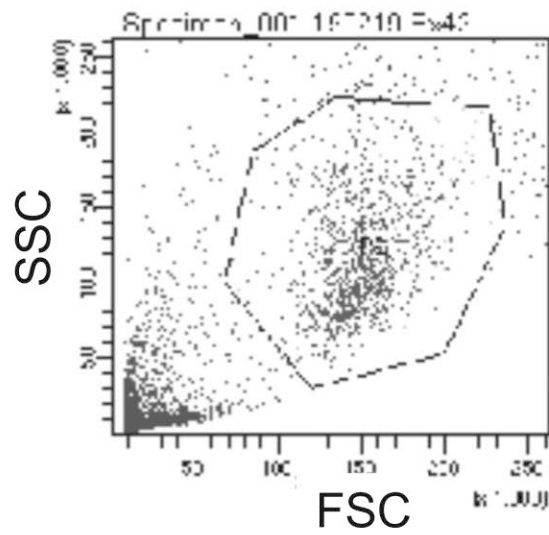


Fig.49

(A)



(B)

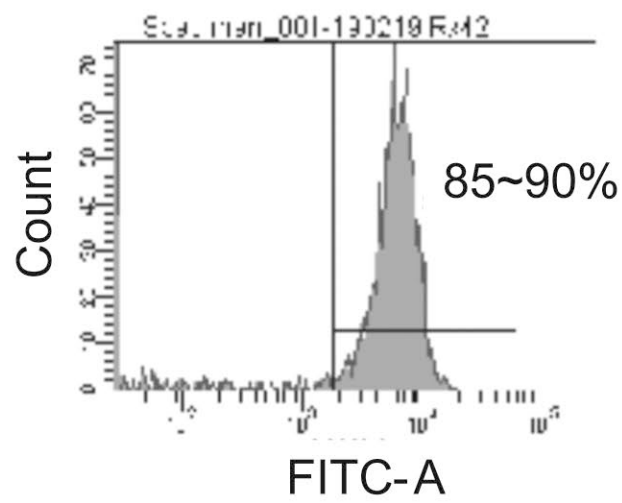


Fig.50

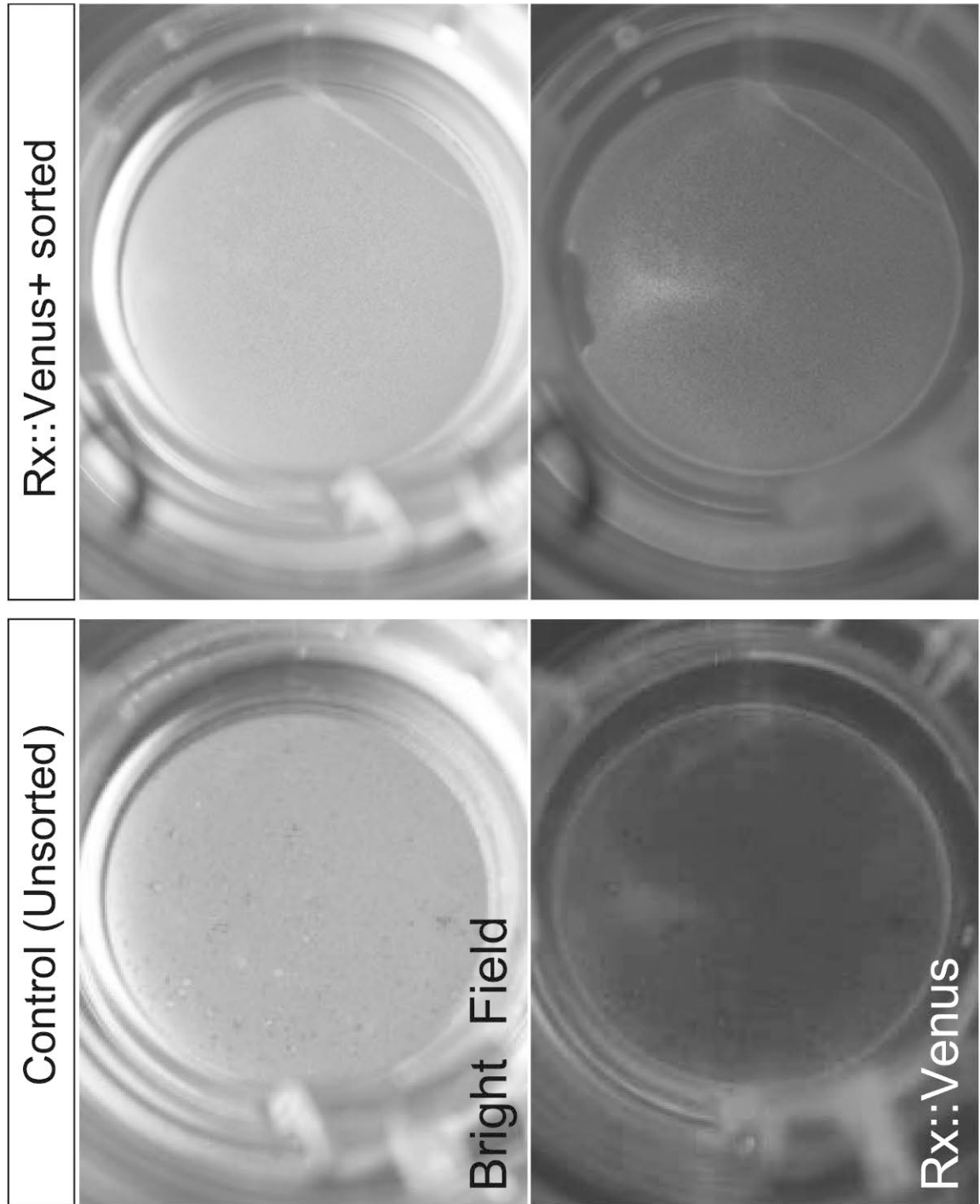


Fig.51

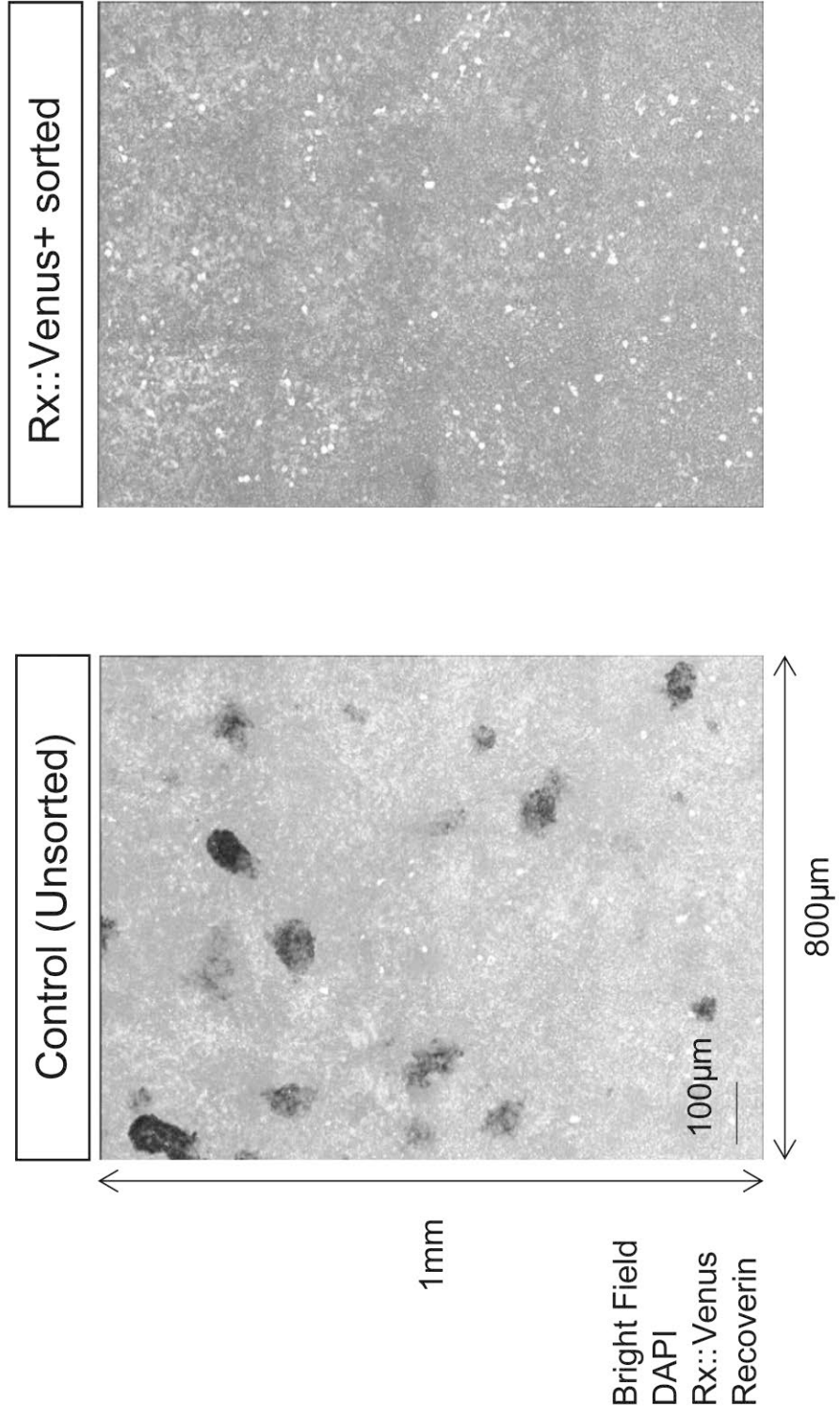


Fig.52

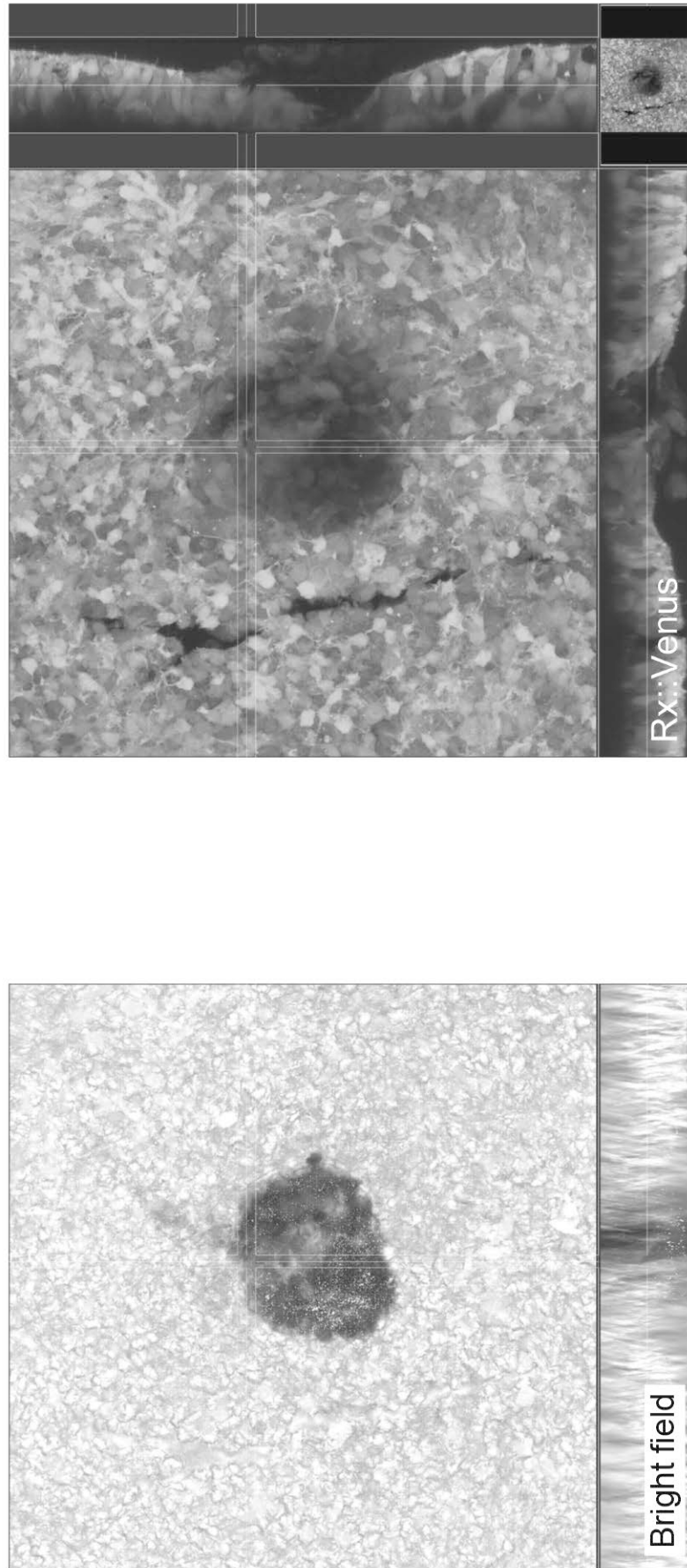


Fig.53

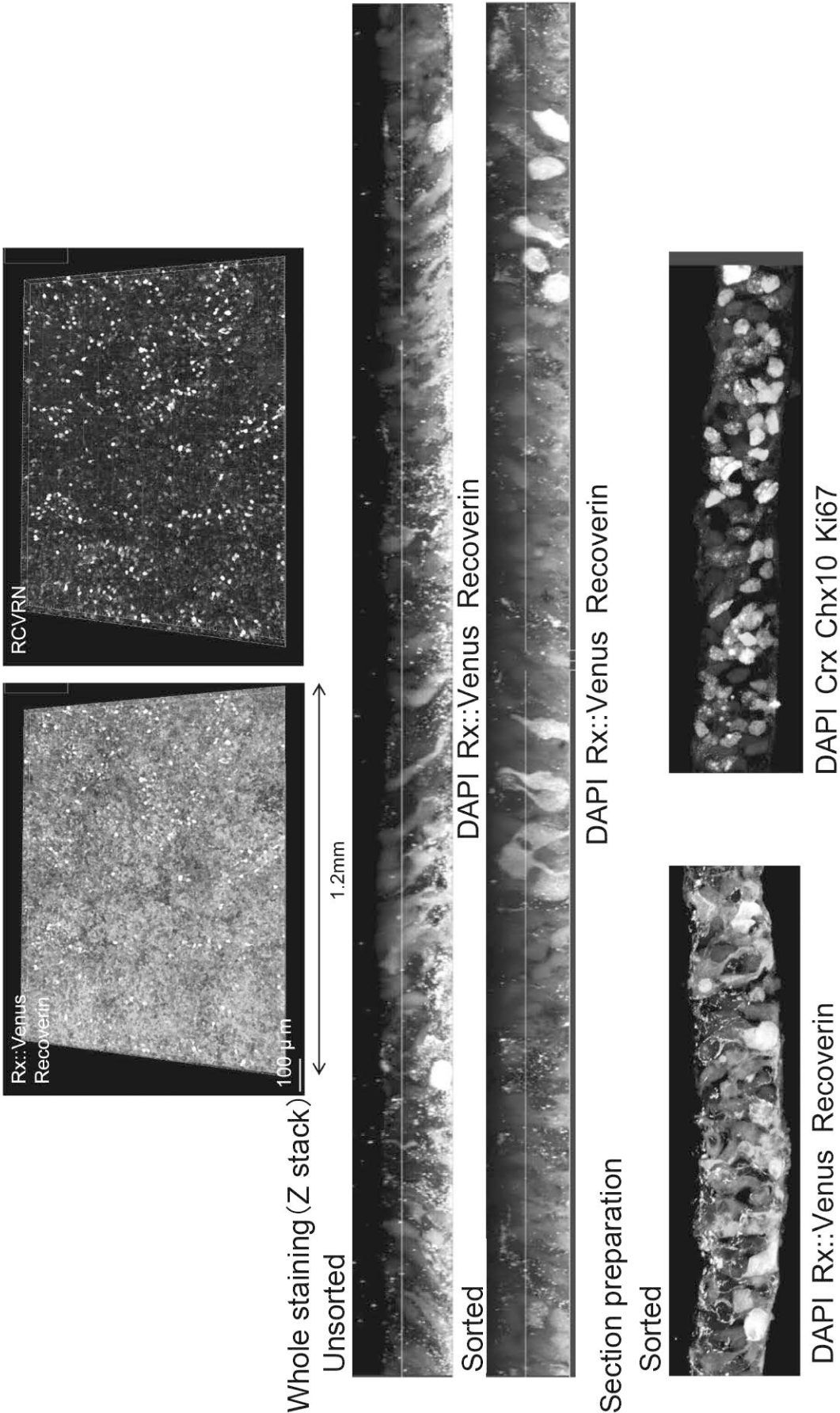


Fig.54

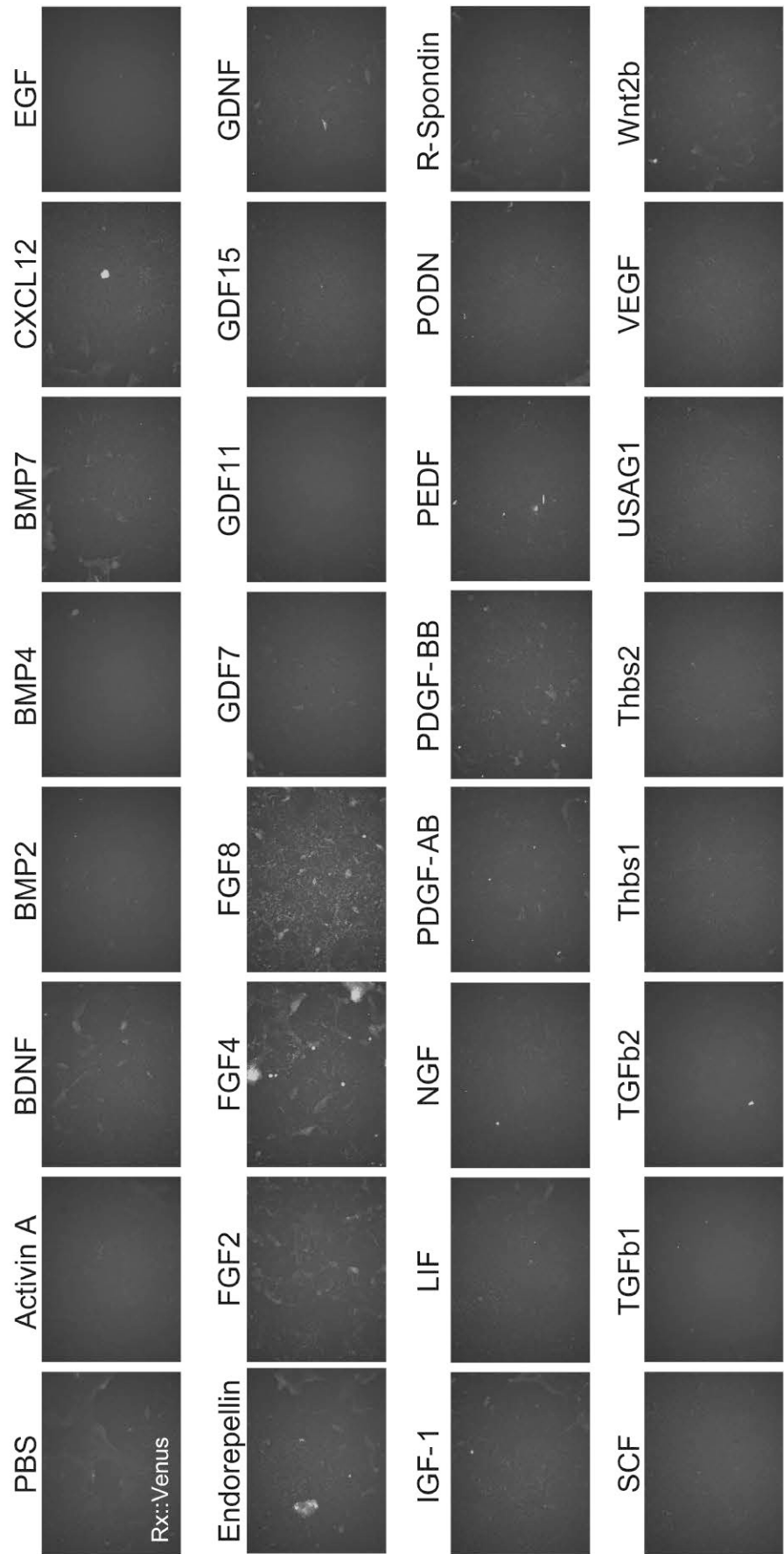


Fig.55

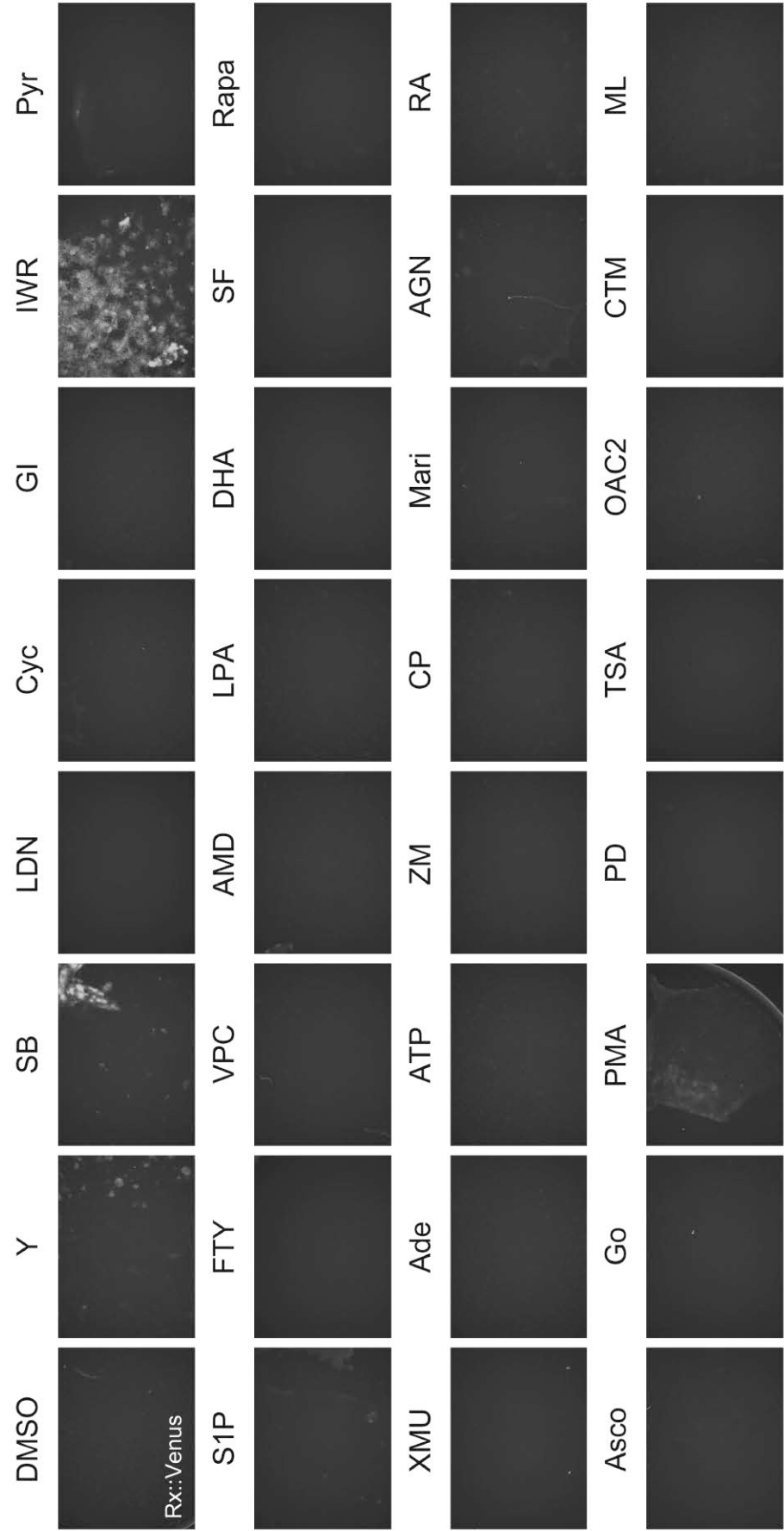


Fig.56

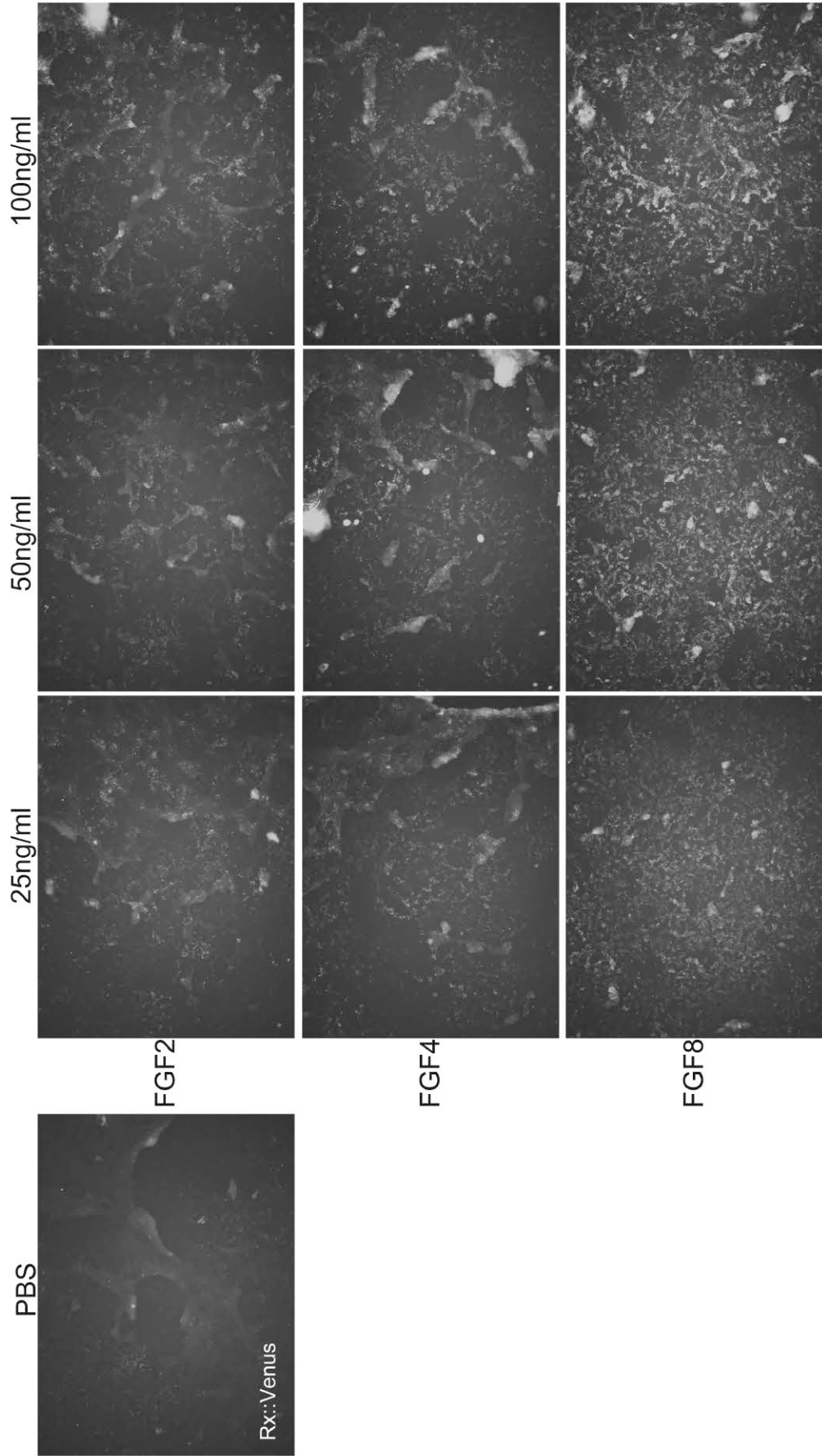


Fig.57

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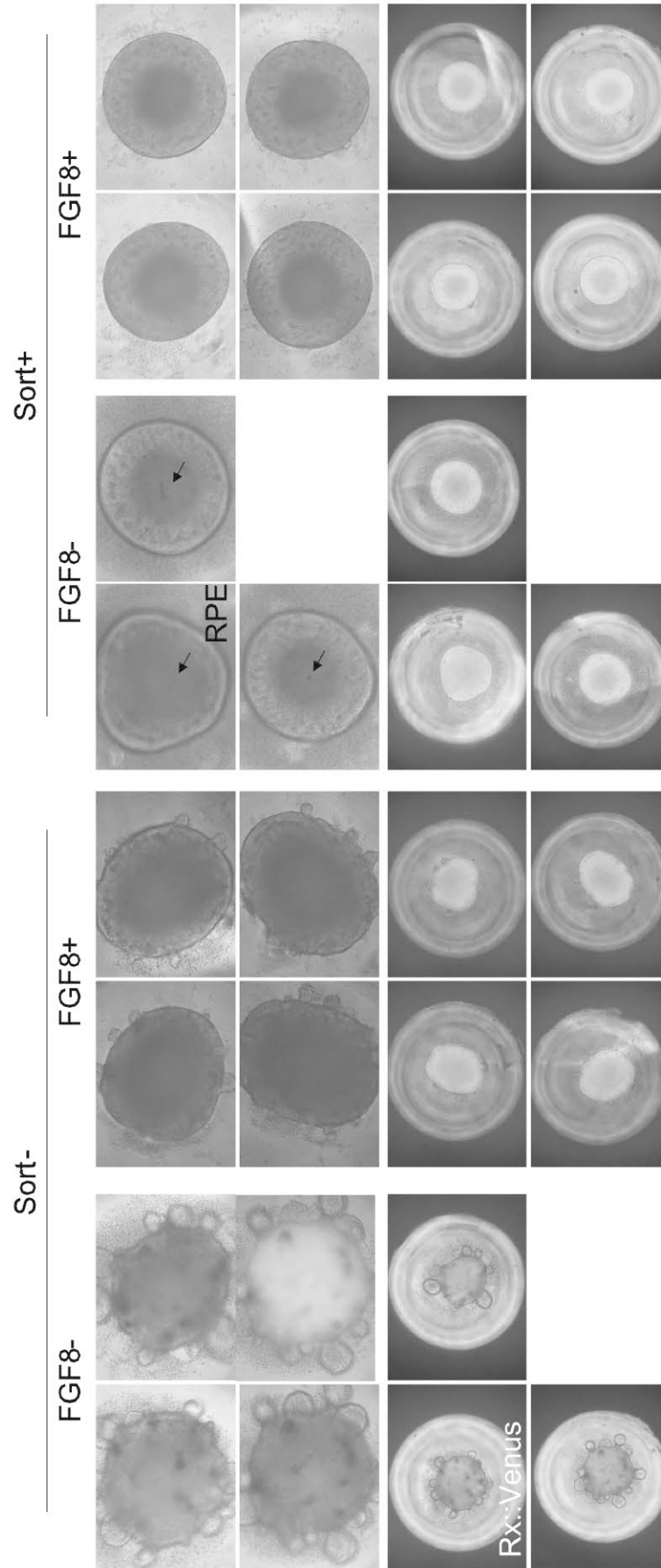


Fig.58

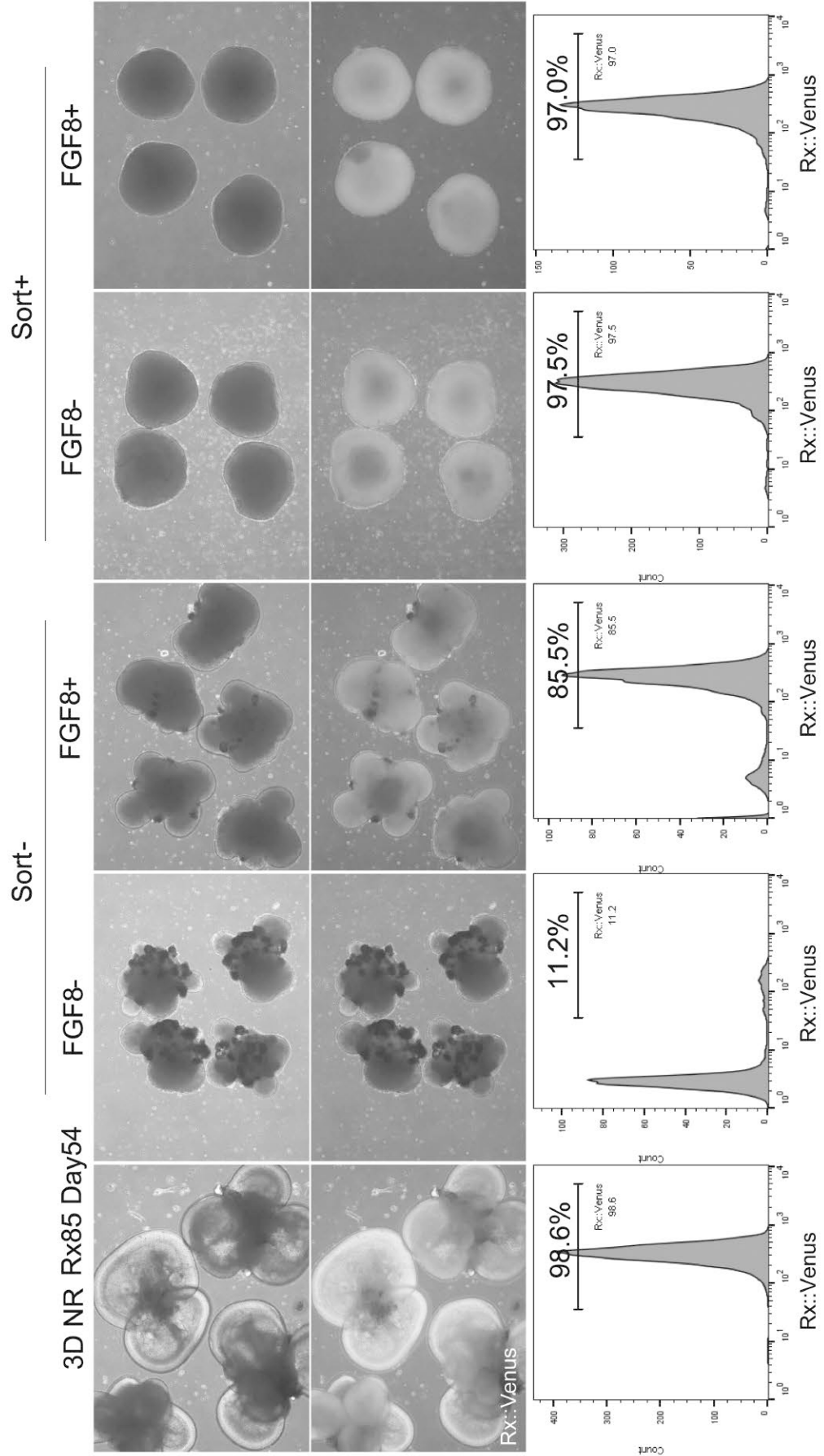


Fig.59

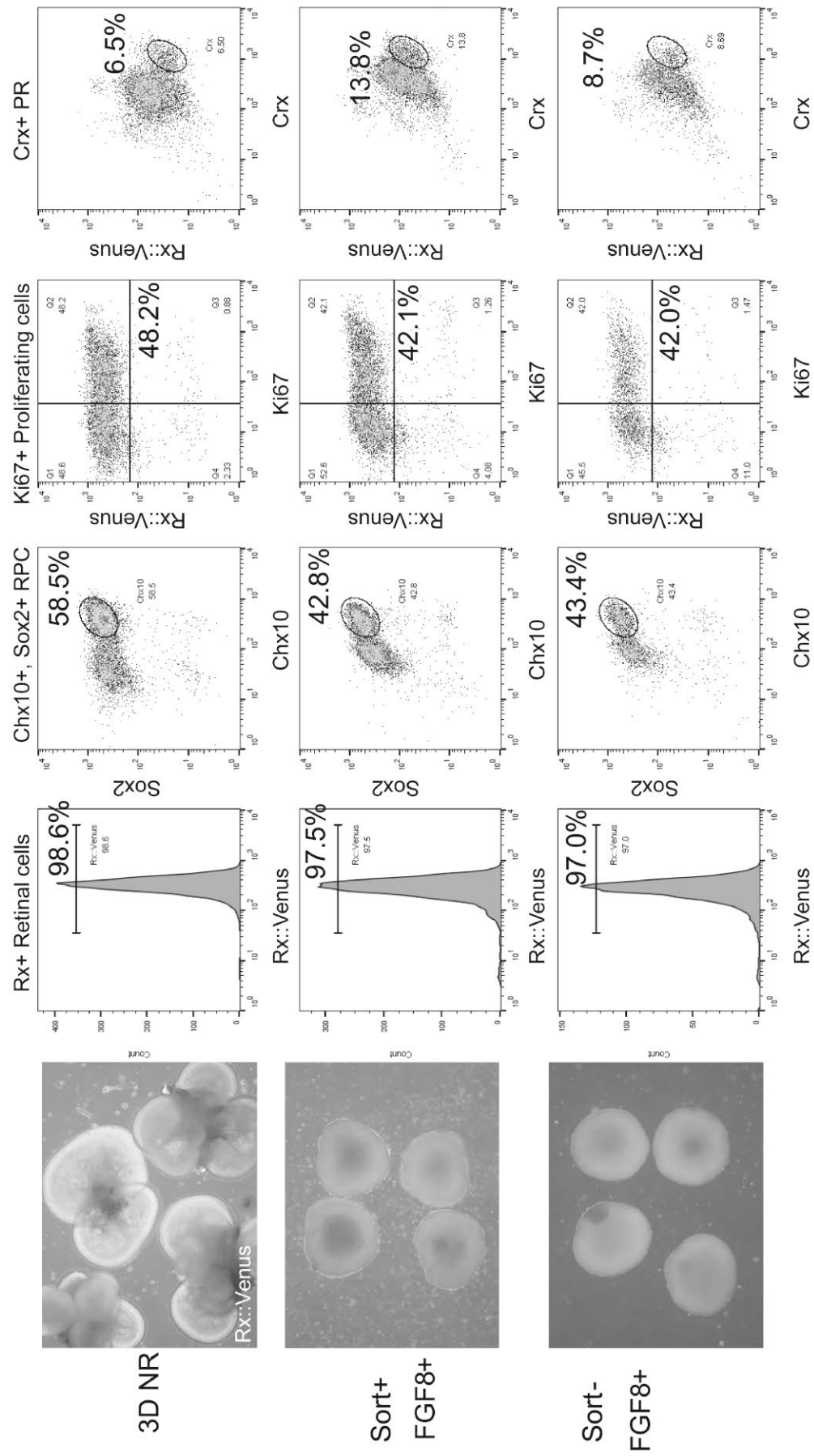
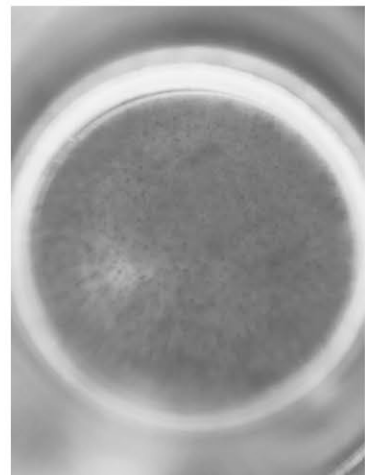
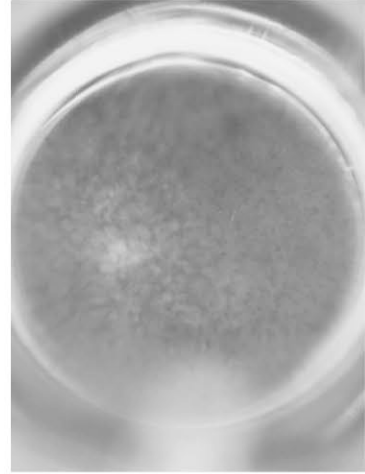
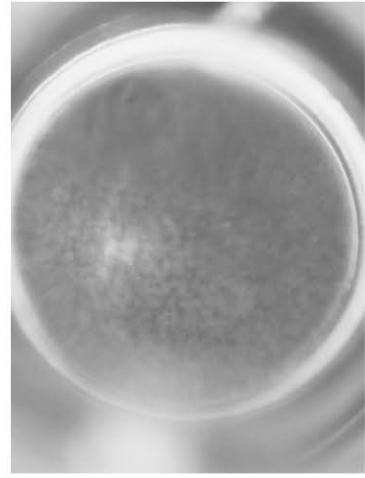
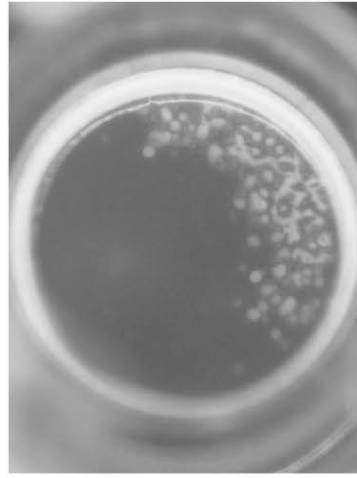


Fig. 60

After Rx::Venus sorting



FGF8-

FGF8+

Fig. 61

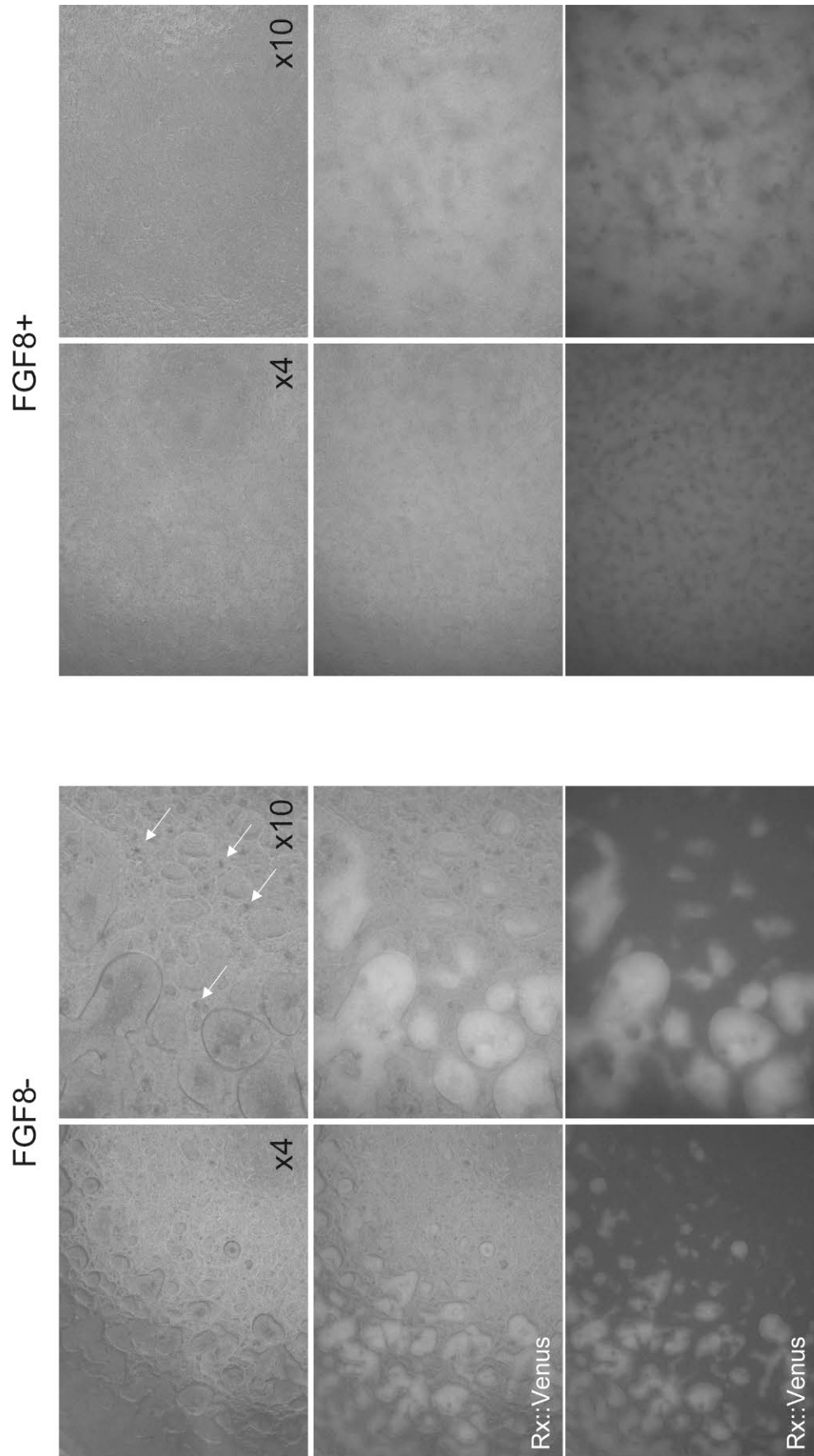


Fig.62

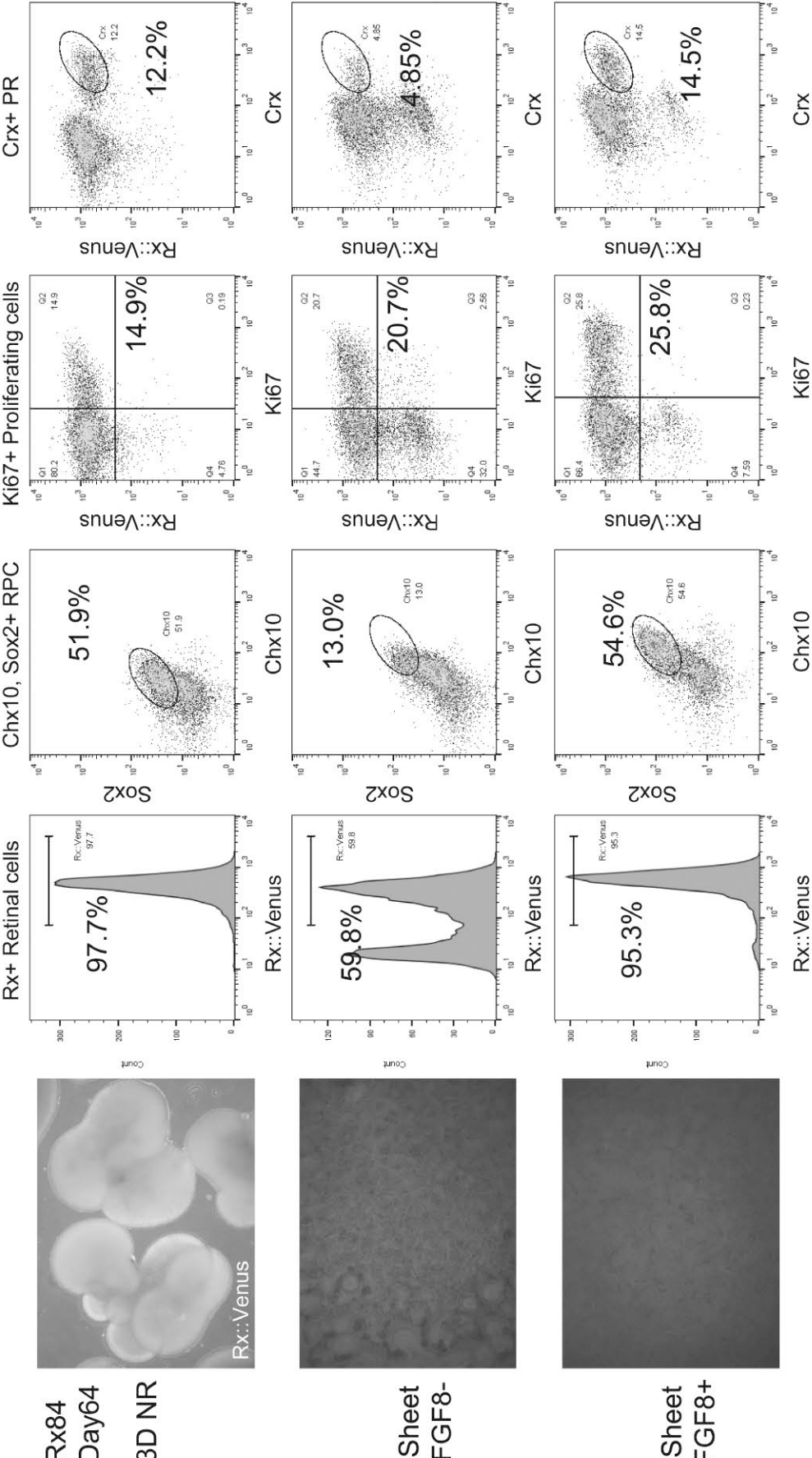


Fig. 63

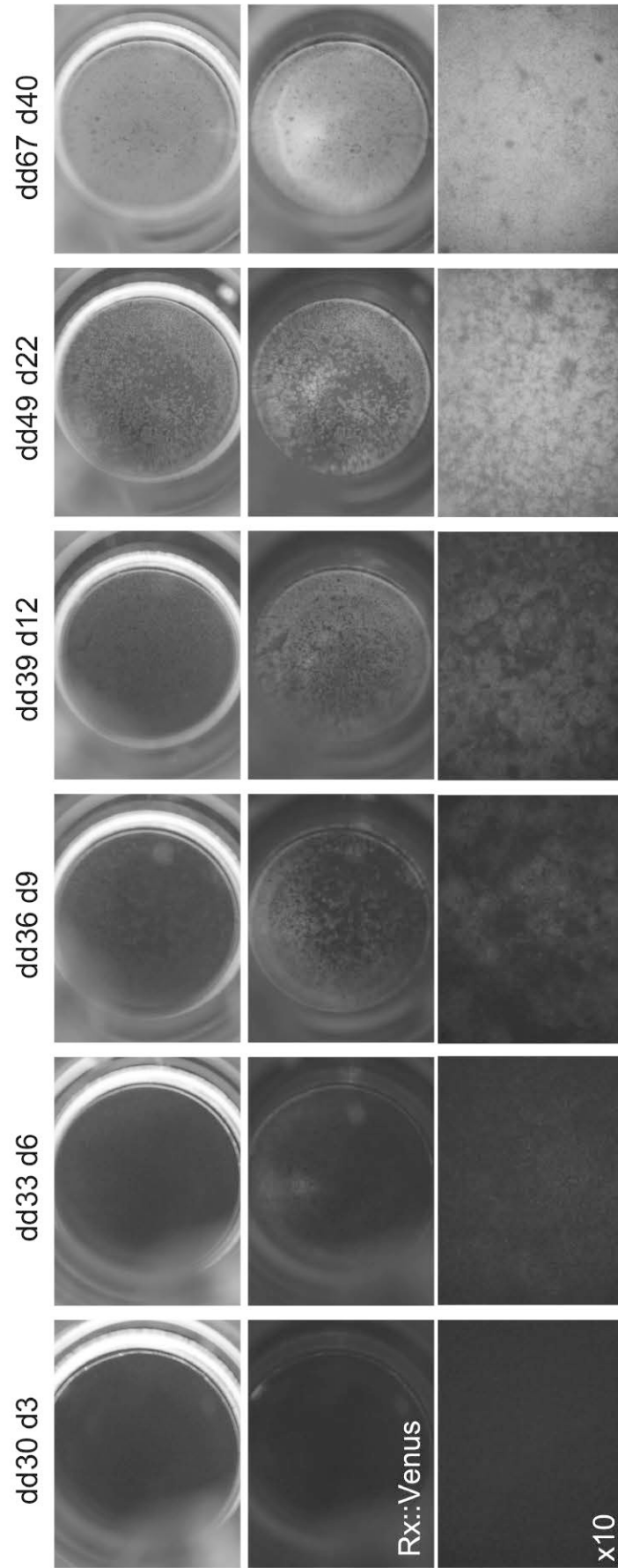


Fig.64

<u>ESC:high, NR:low</u>		<u>ESC:high, NR:high</u>		<u>ESC:low, NR:high</u>	
57 out of 371		25 out of 371		4 out of 371	
CD10	CD202b	CD9	CD39		
CD13	CD220	CD15	CD47		
CD21	CD221	CD29	CD73		
CD24	CD222	CD49a	CD184		
CD30	CD239	CD49b			
CD40	CD266	CD49c			
CD46	CD269	CD49e			
CD49d	CD271	CD49f			
CD54	CD275	CD51			
CD55	CD276	CD57			
CD56	CD277	CD58			
CD71	CD317	CD63			
CD96	CD318	CD81			
CD97	CD319	CD82			
CD99	CD324	CD90			
CD100	CD326	CD95			
CD104	Podoplanin	CD132			
CD111	ErbB-3	CD148			
CD117	HLA classI Bw6	CD151			
CD119	HLA-A2	CD156c			
CD133/1	HLA-A2, A28	CD182			
CD133/2	HLA-A9	CD200			
CD142	PTK7	CD262			
CD143	BOR1	CD298			
CD146	SSEA-4	CD340			
CD147	SSEA-5				
CD166					
CD171					
CD172a					

Fig.65

Surface antigen screening (MACS Marker Screen, human)

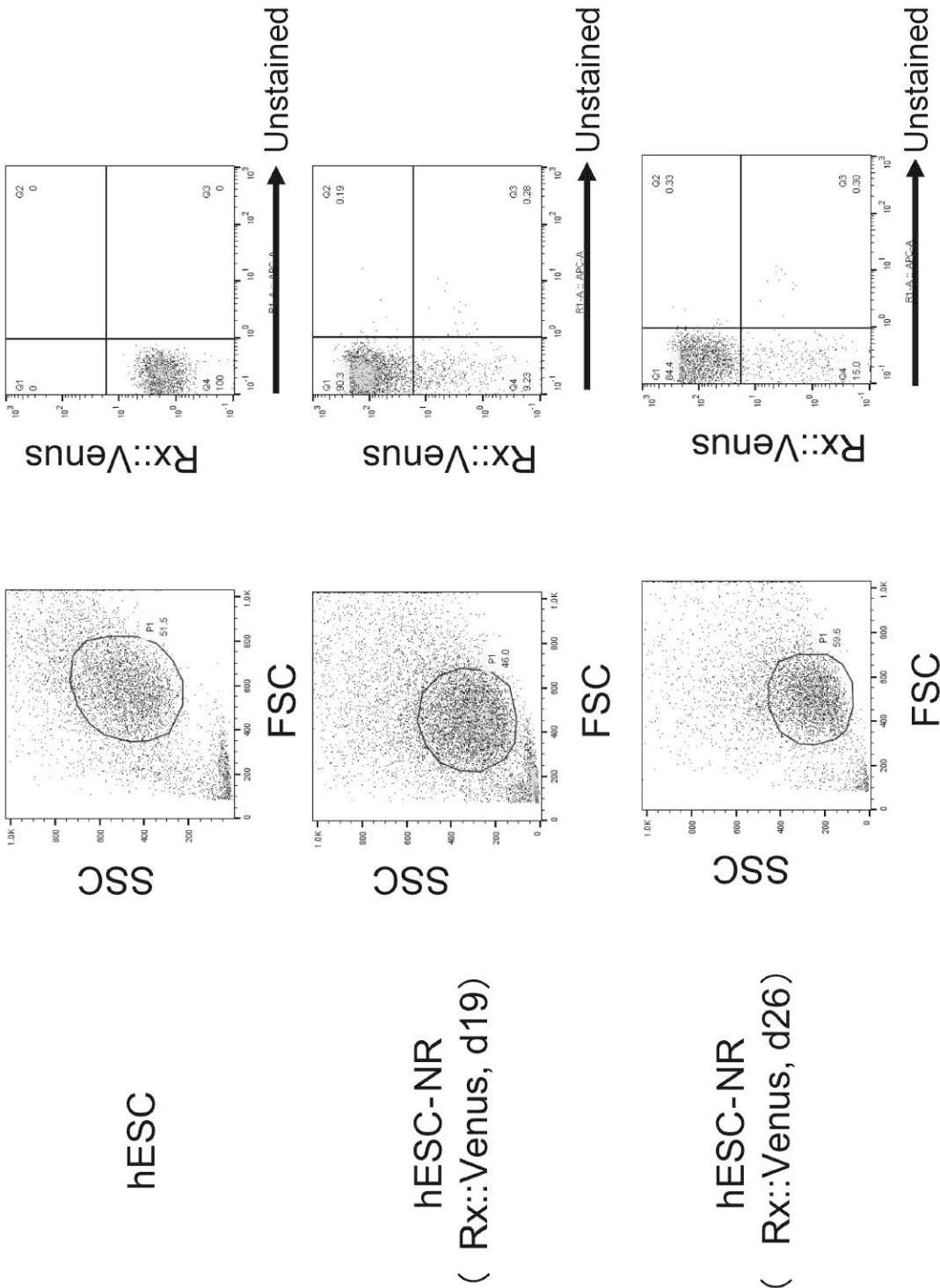
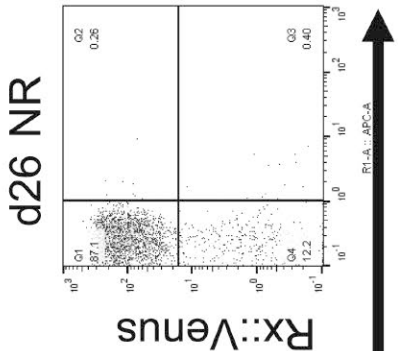
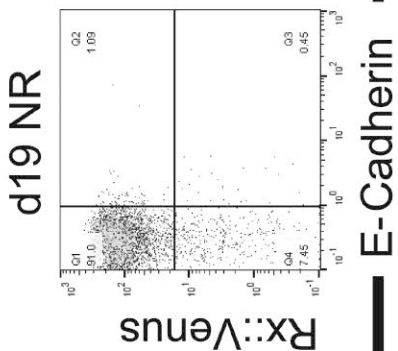
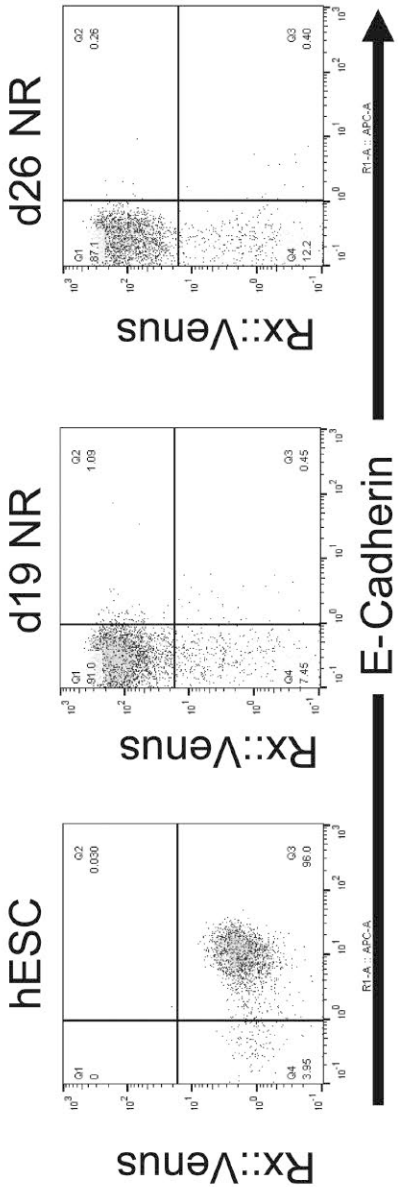
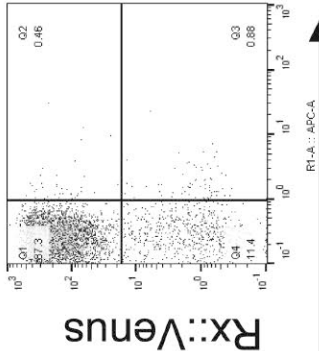
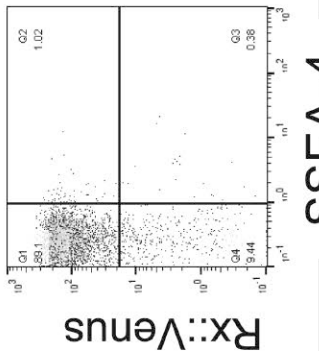
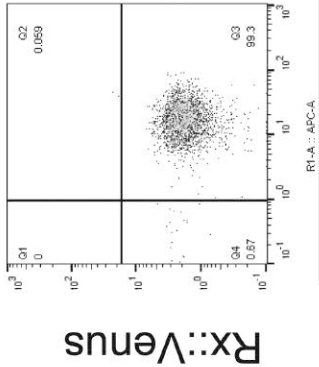


Fig.66

CD324
(E-Cadherin)



SSEA-4



SSEA-5

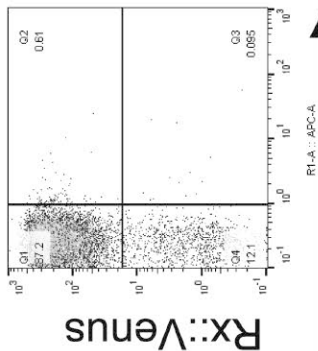
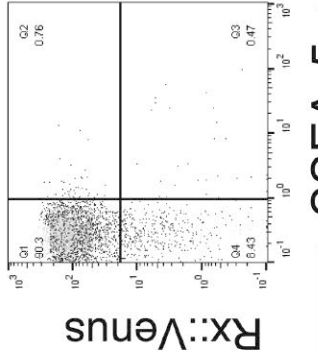
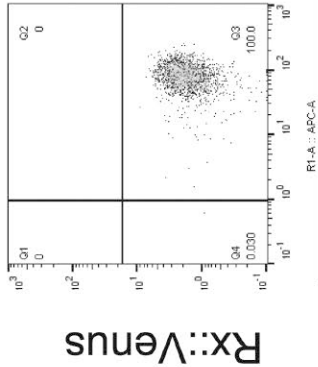


Fig.67

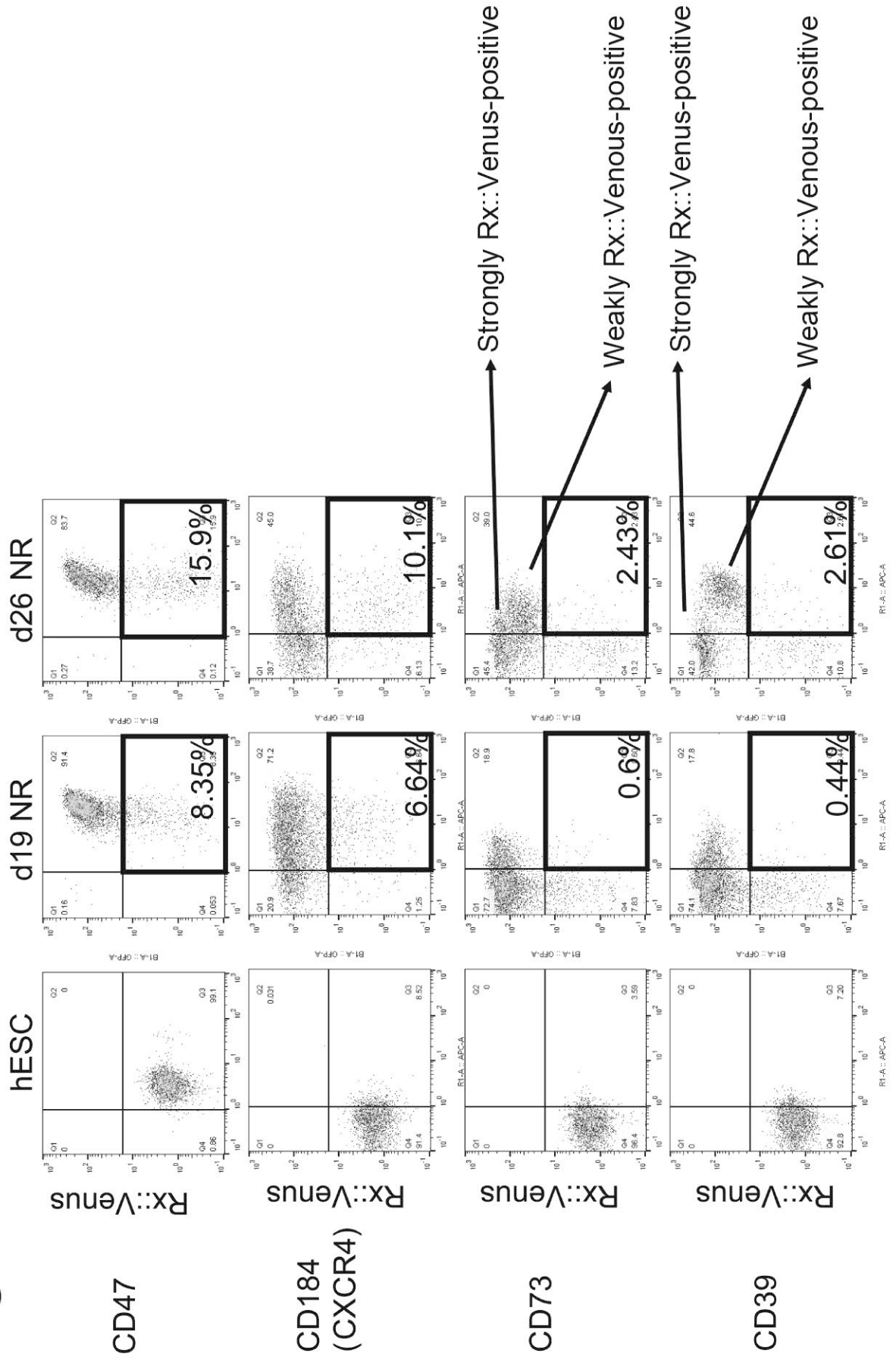


Fig.68

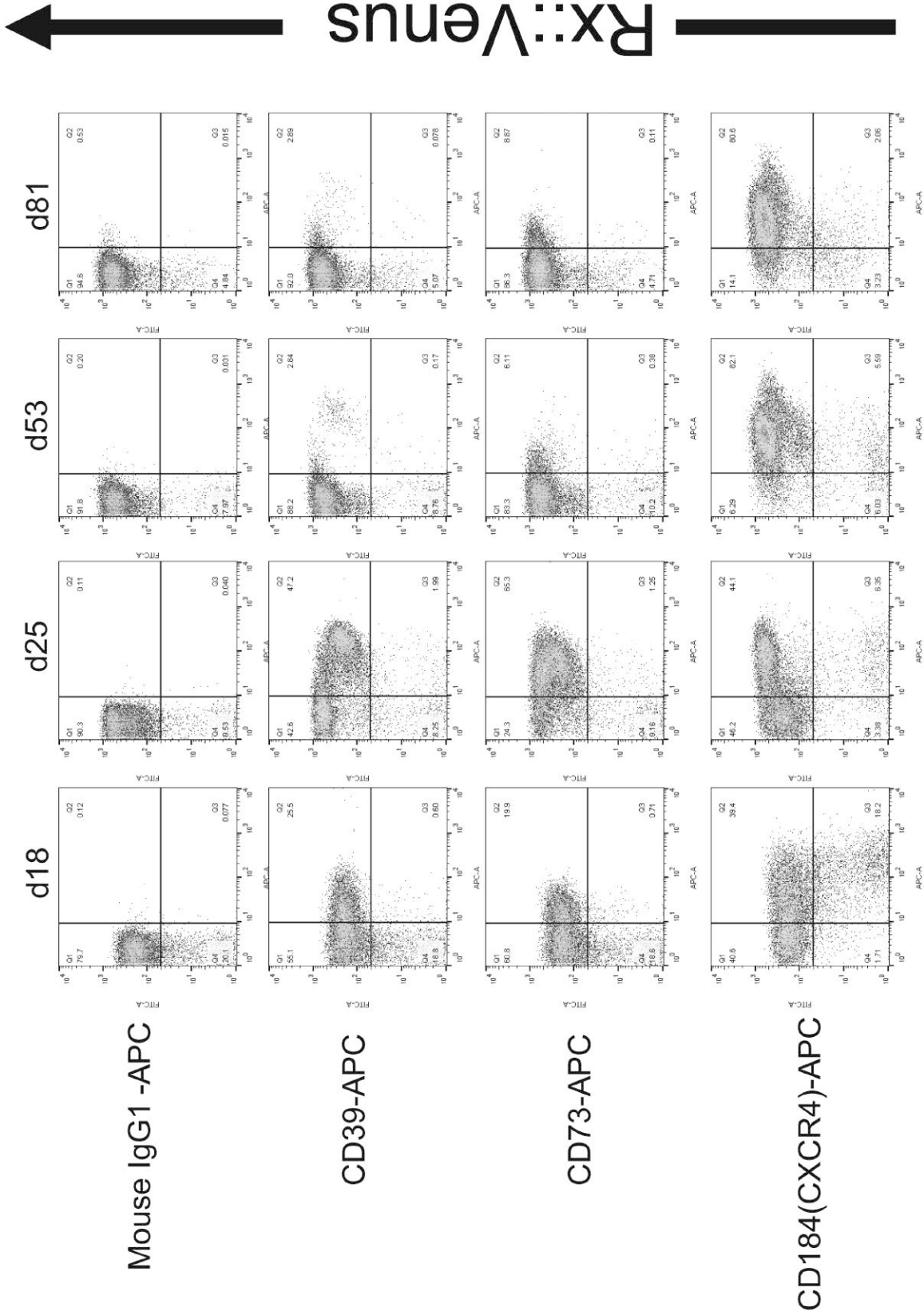


Fig.69

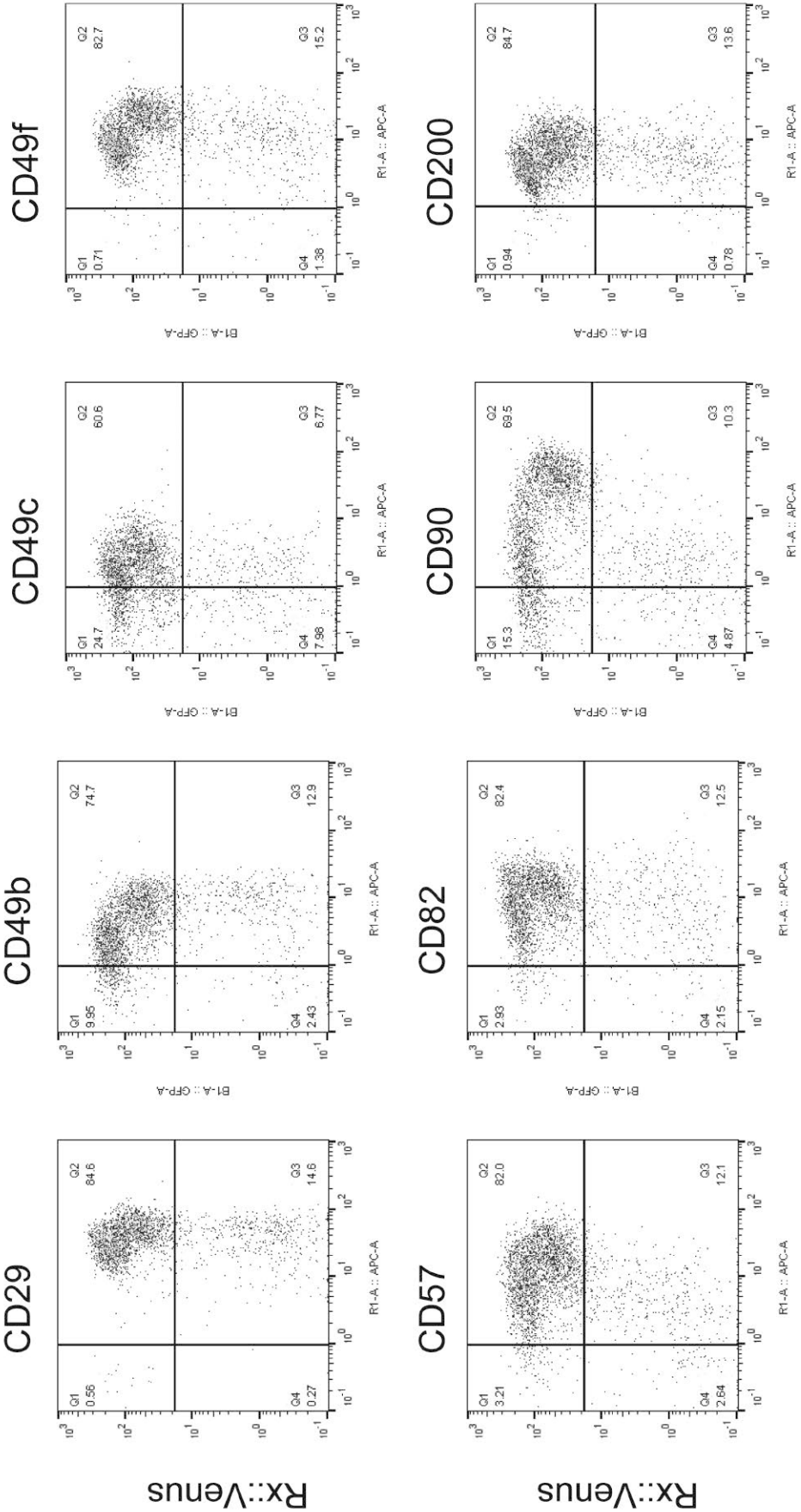


Fig.70

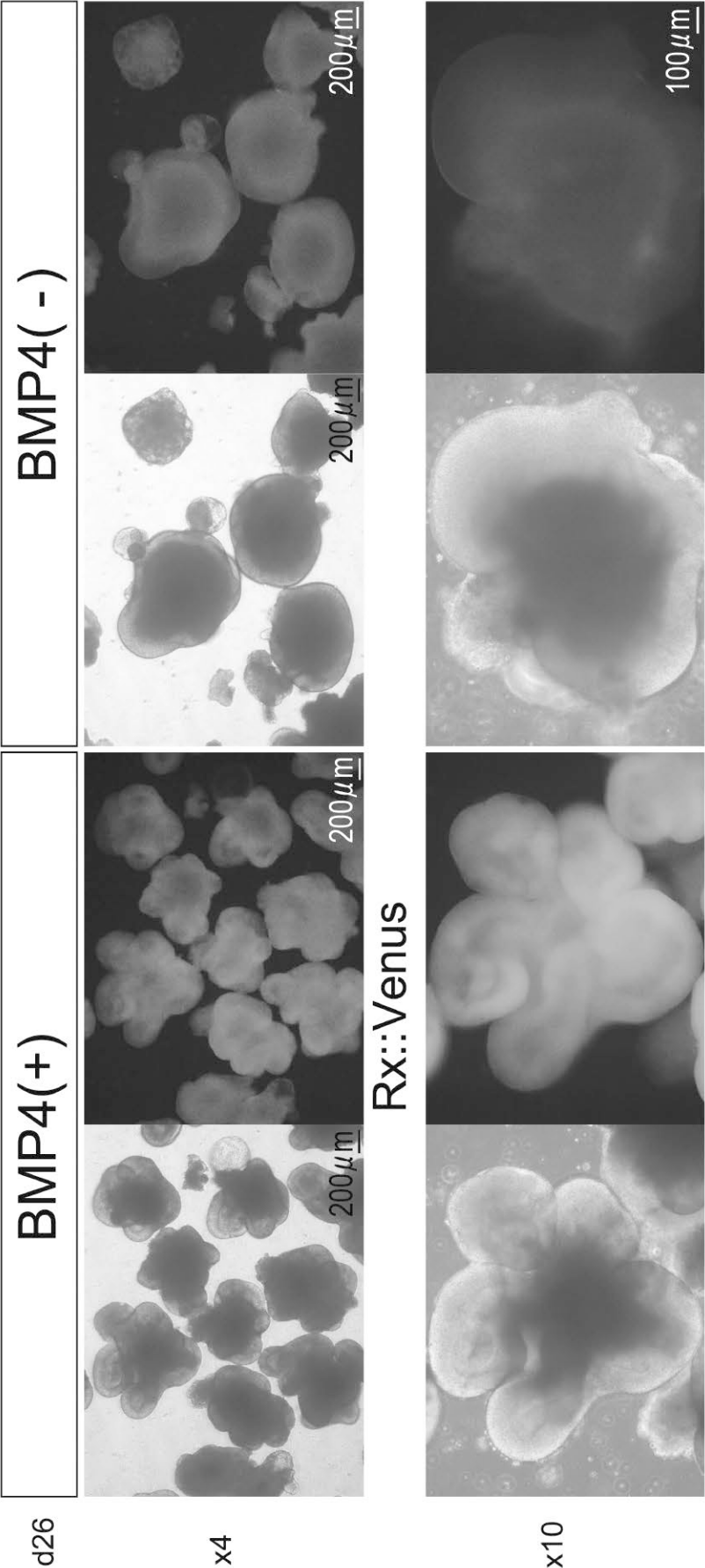


Fig.71

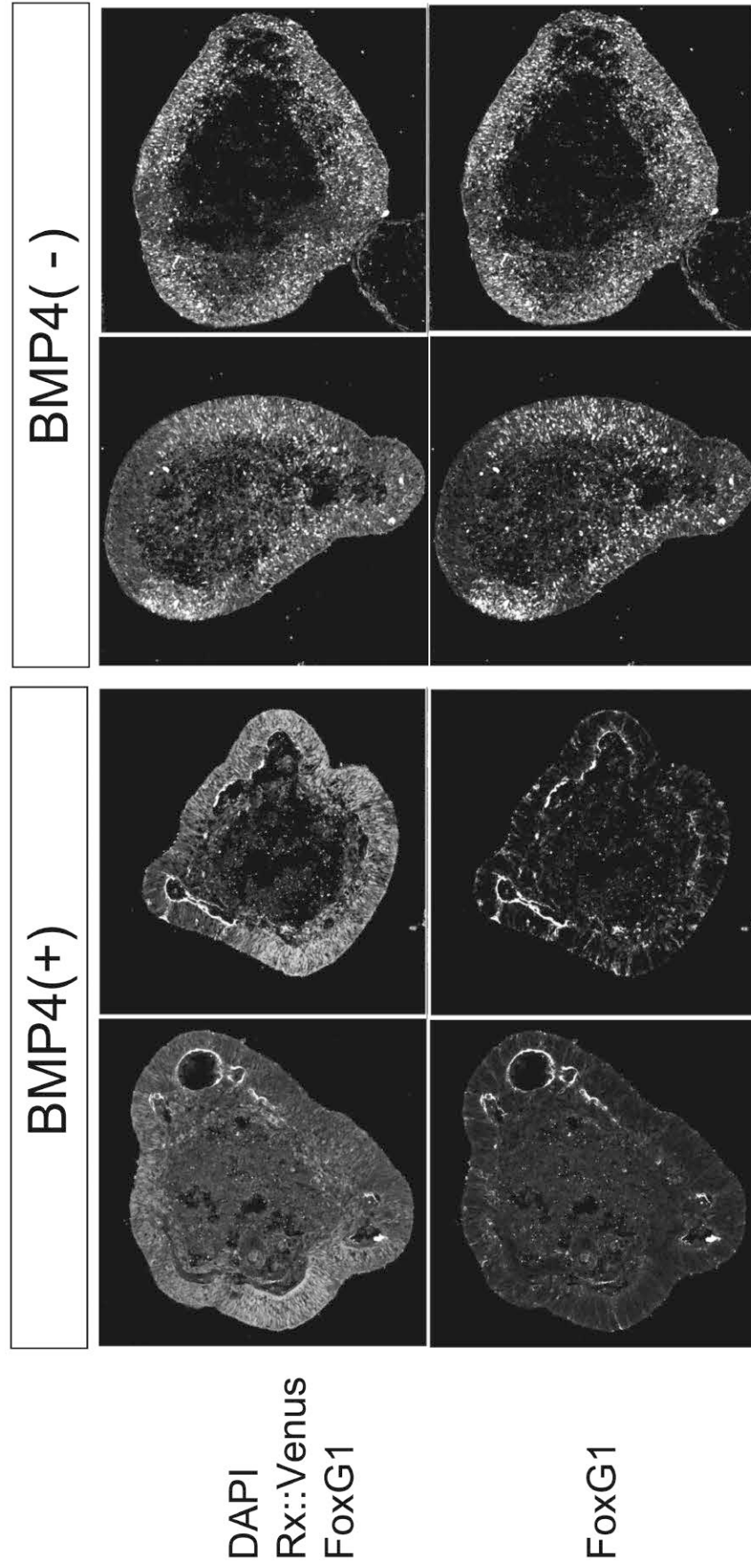


Fig.72

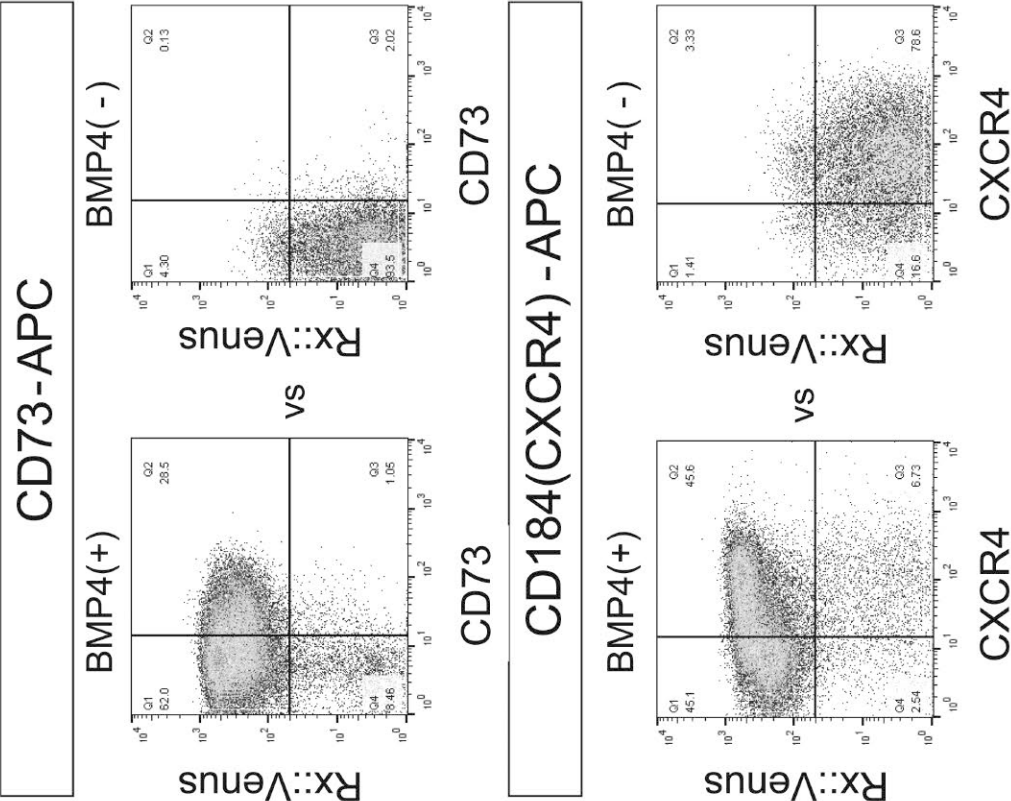
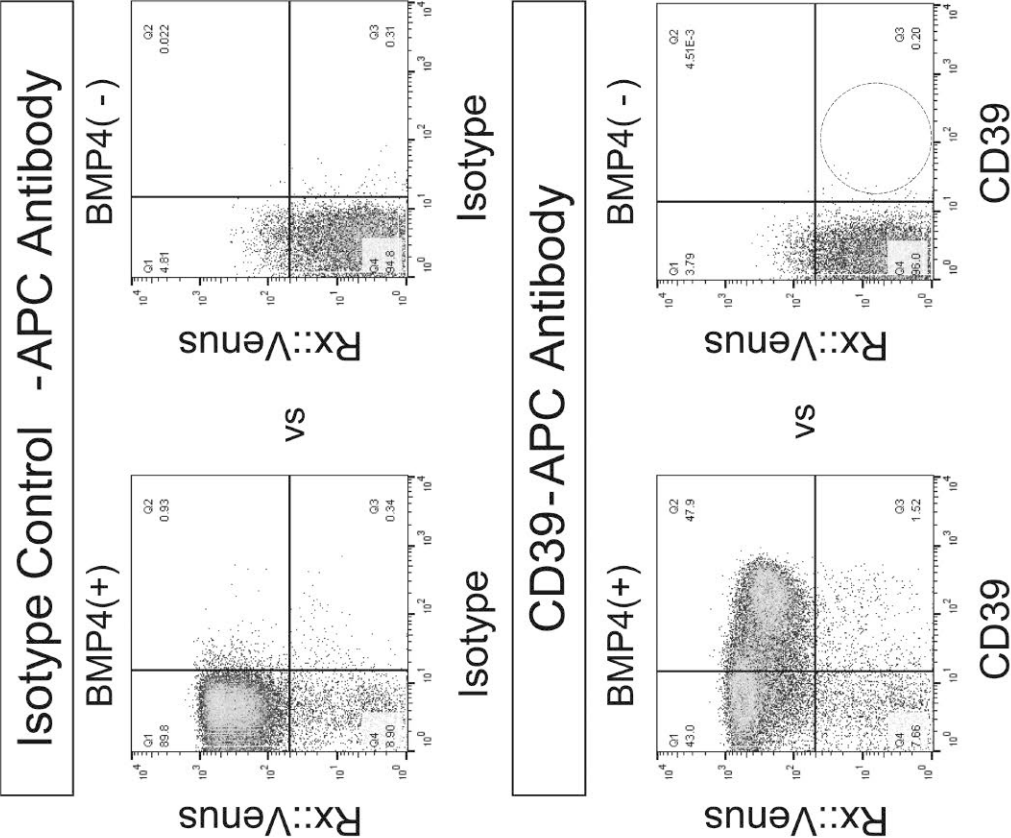


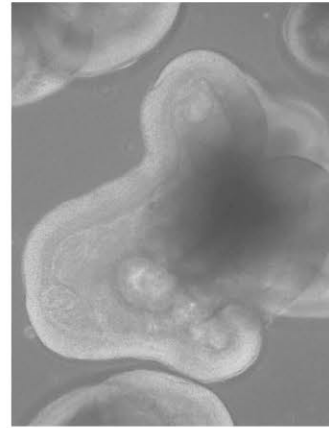
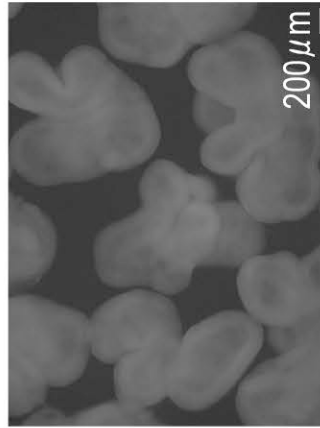
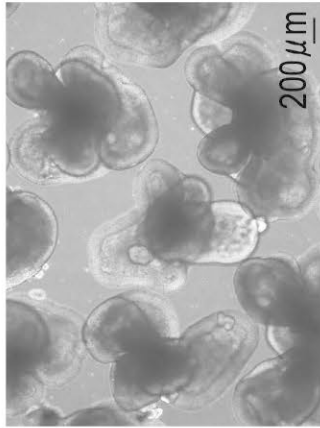
Fig.73

Bright Field
(x4 lens)

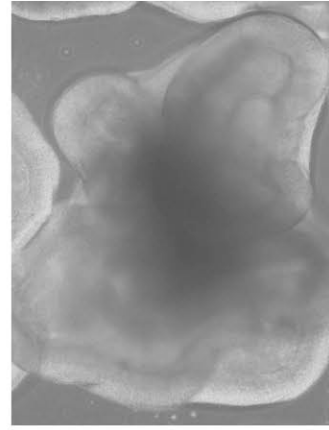
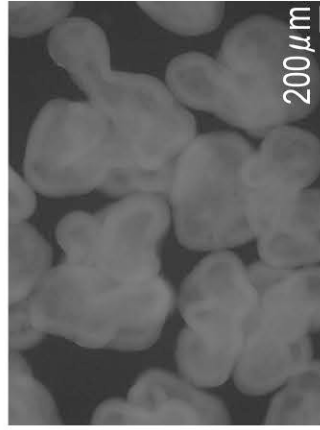
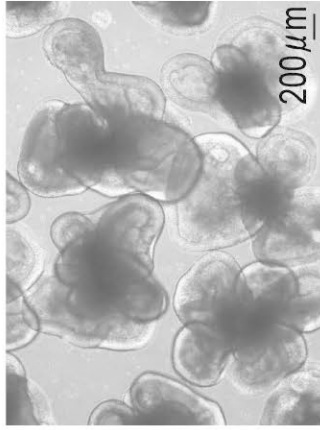
Rx::Venus

Bright Field
(x10 lens)

0nM



30nM



300nM

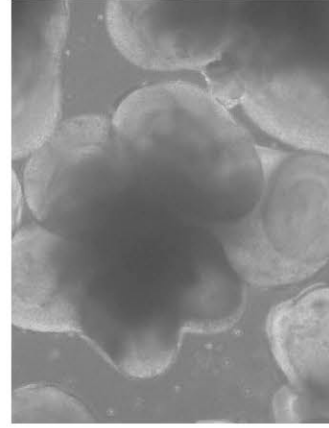
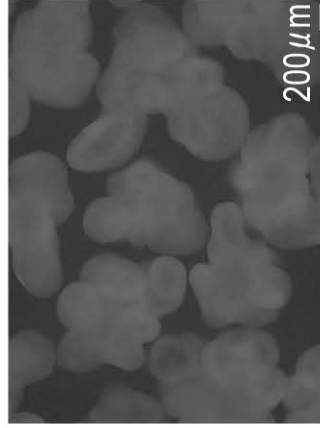
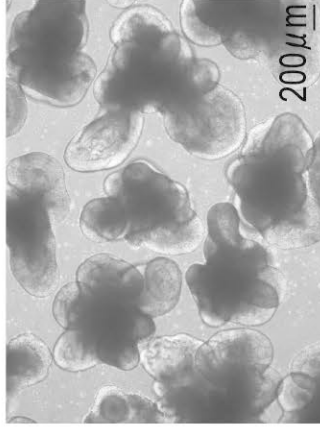
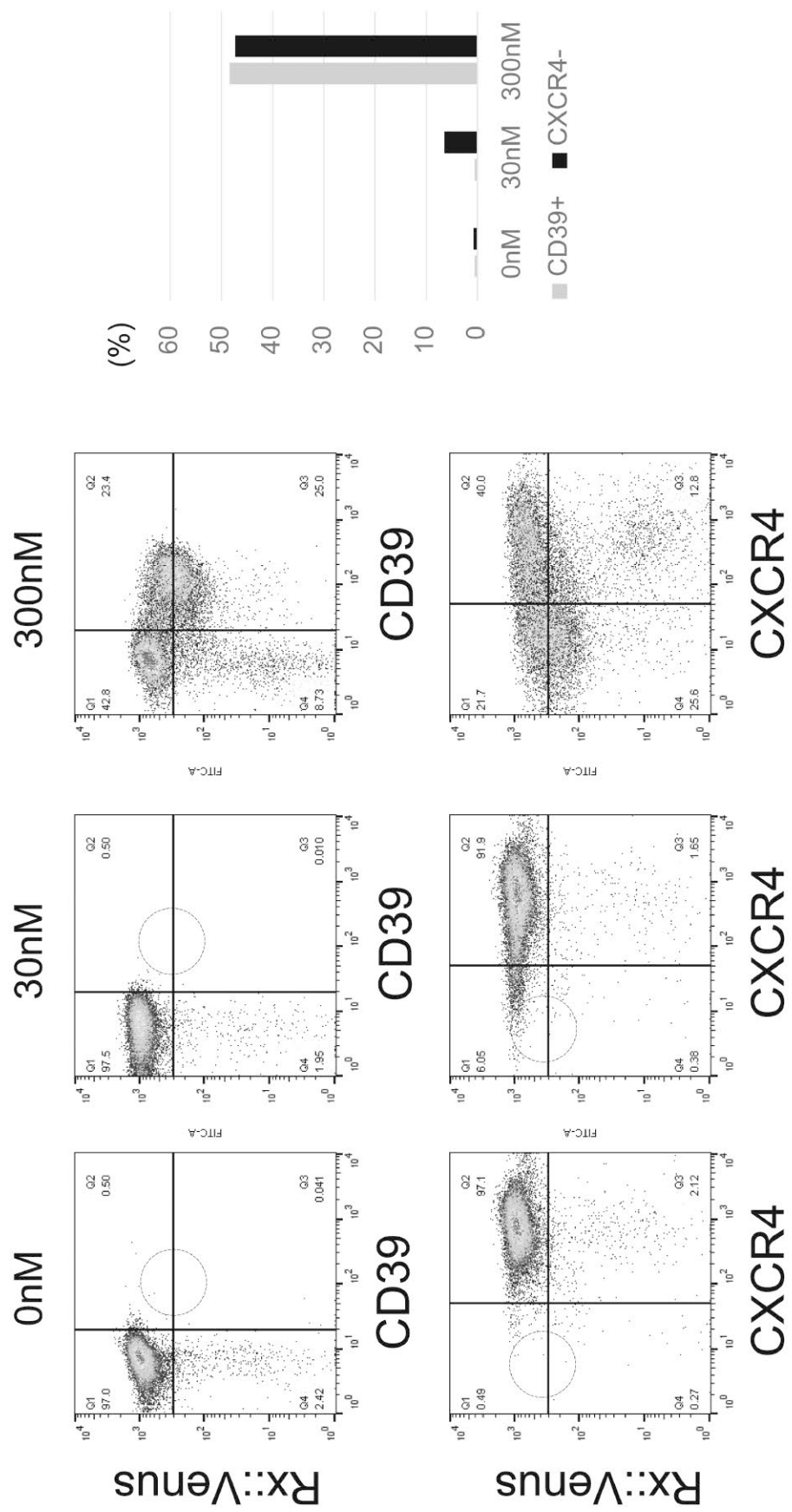


Fig.74



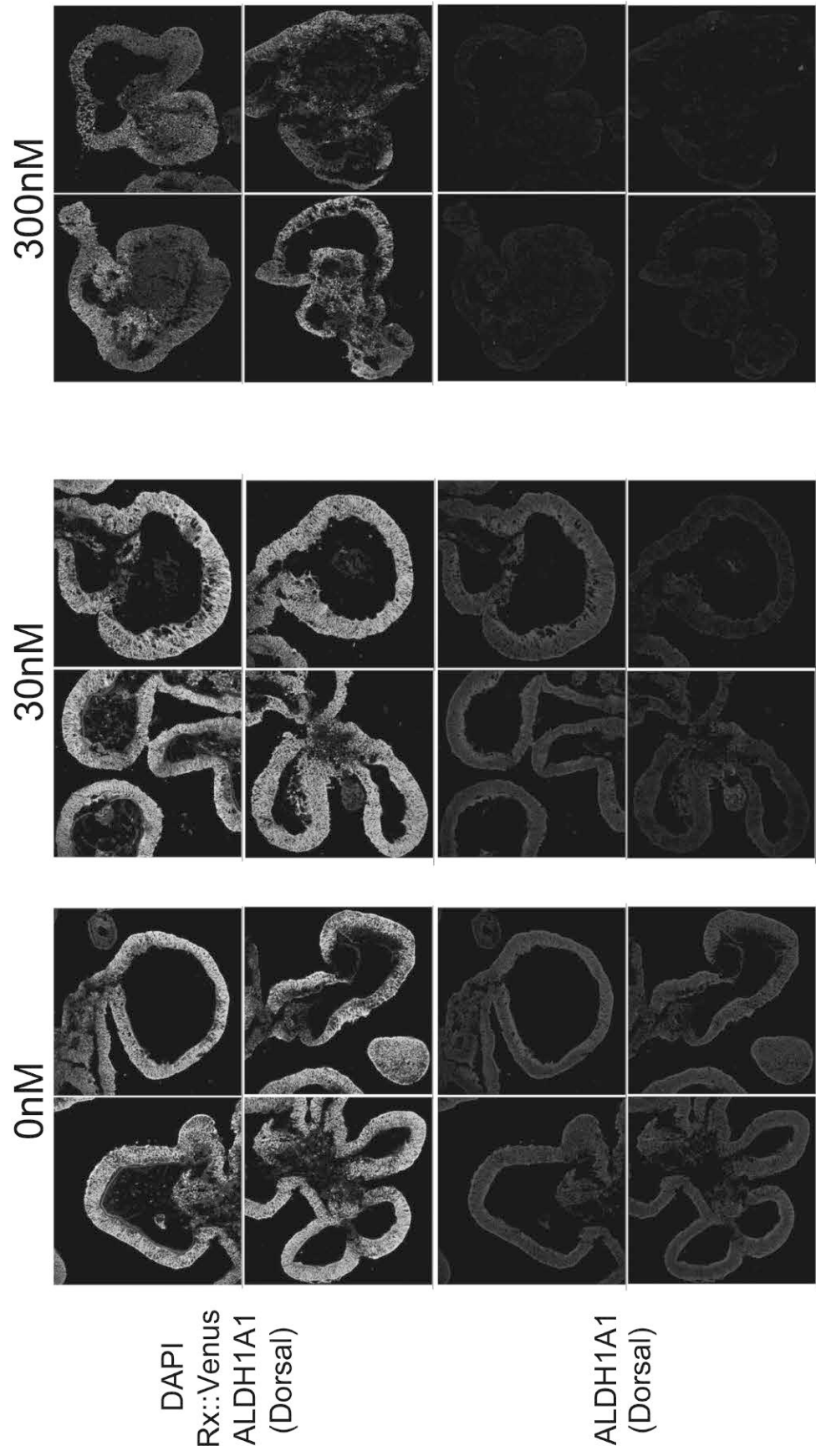


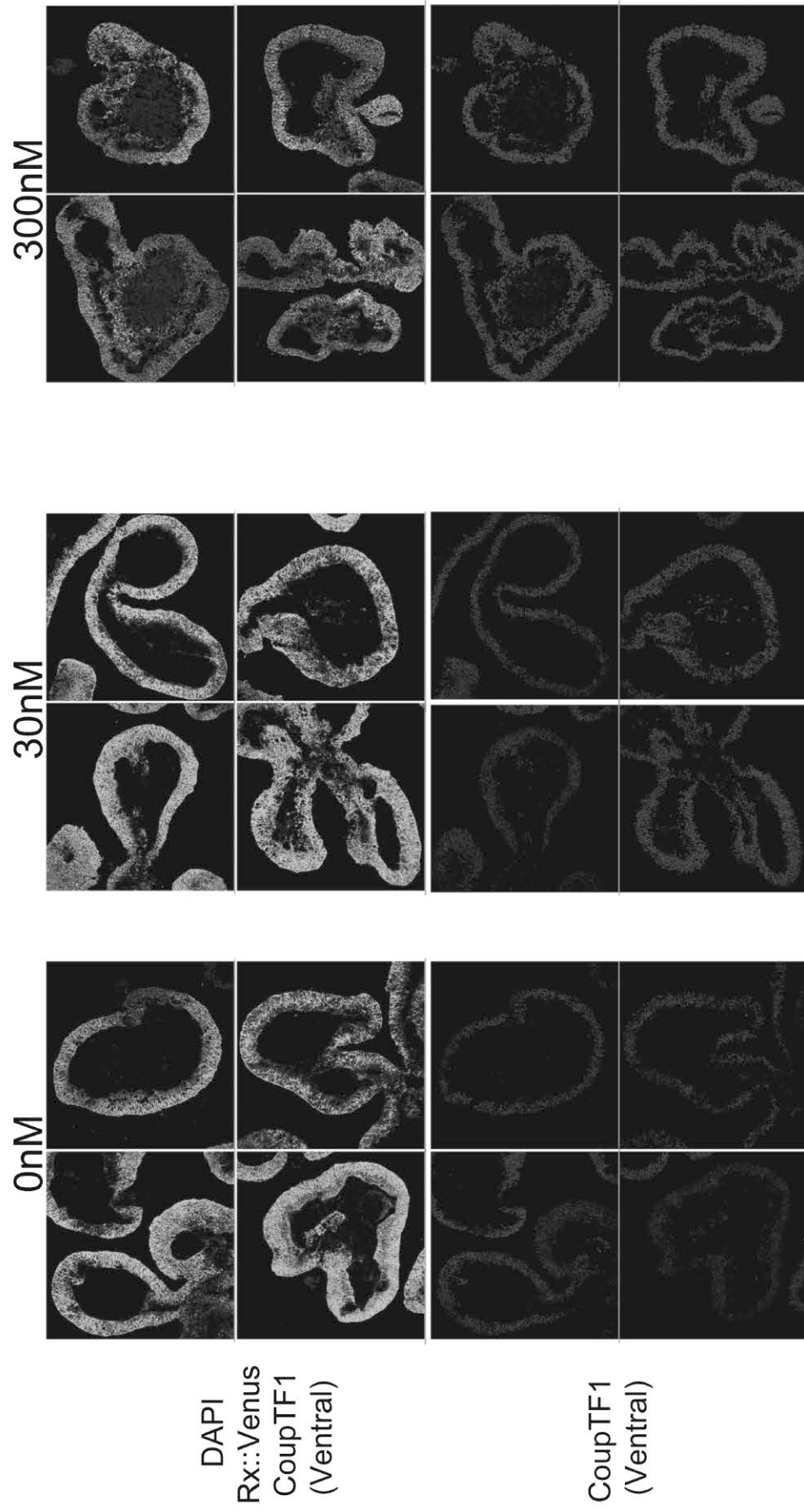
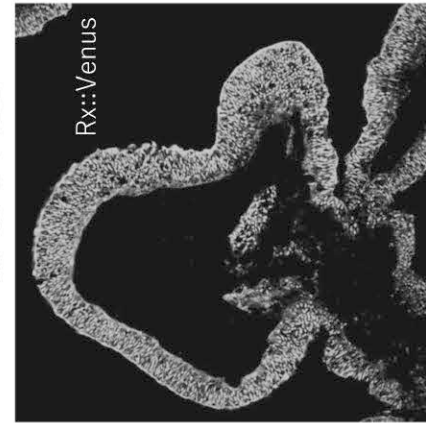
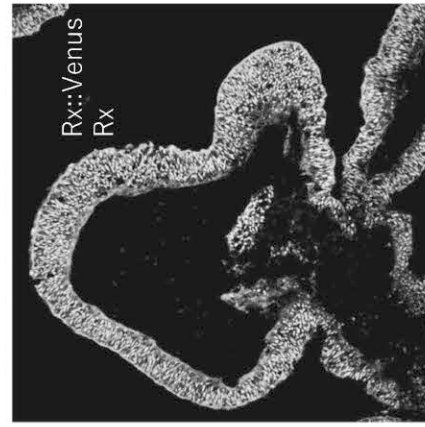
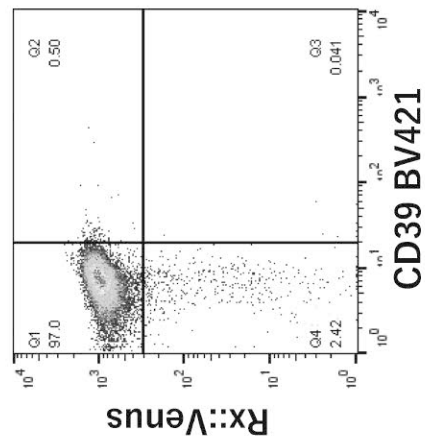
Fig. 76

Fig.77

0nM



300nM

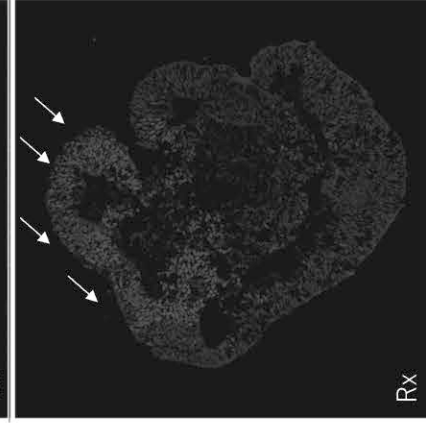
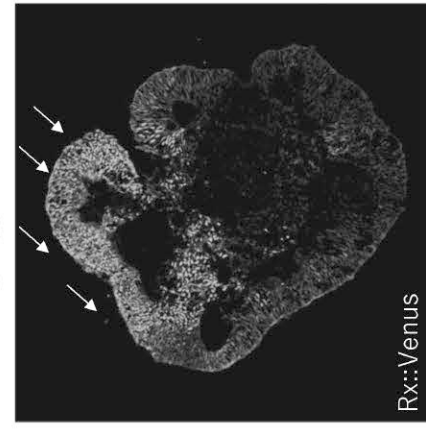
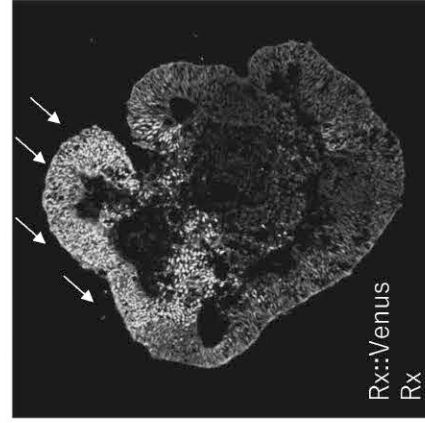
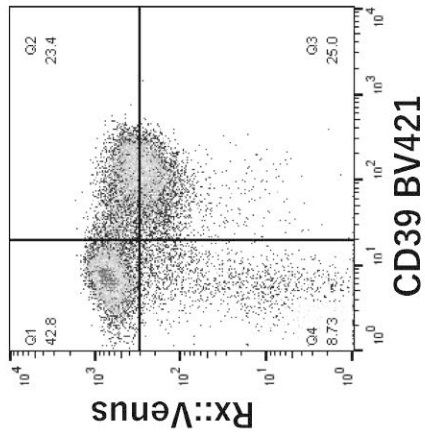
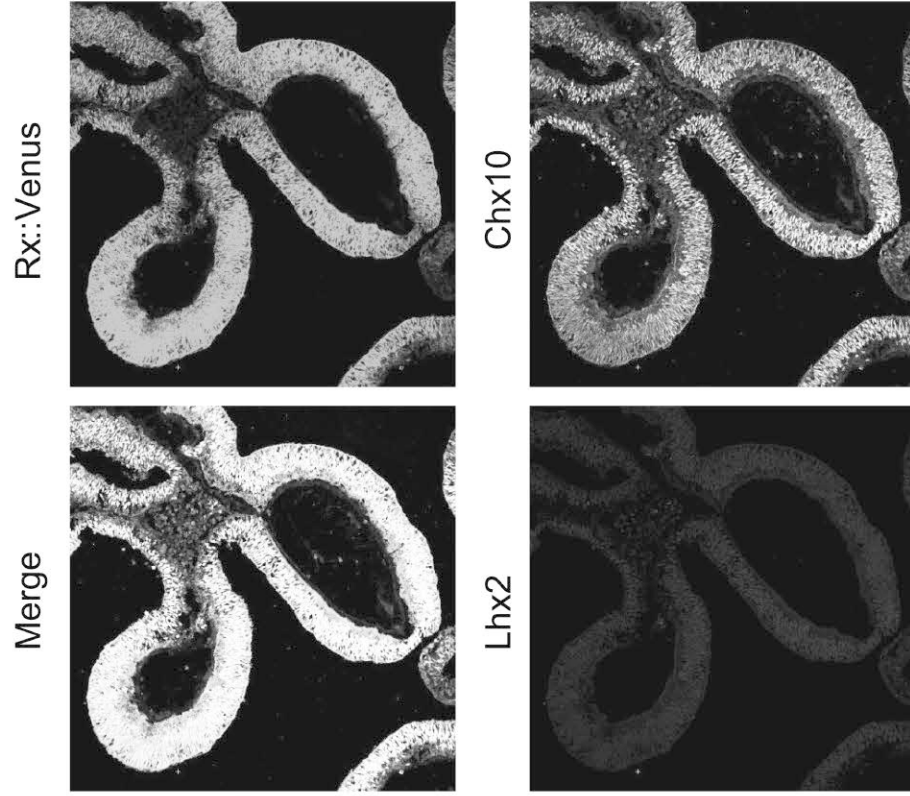


Fig.78

0nM



300nM

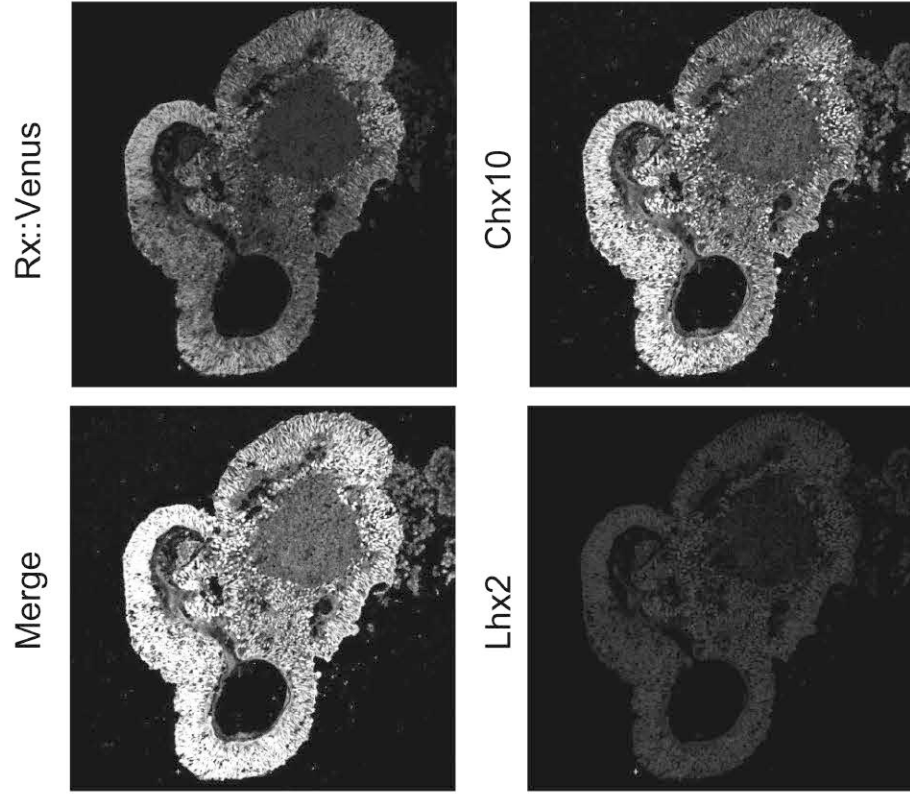
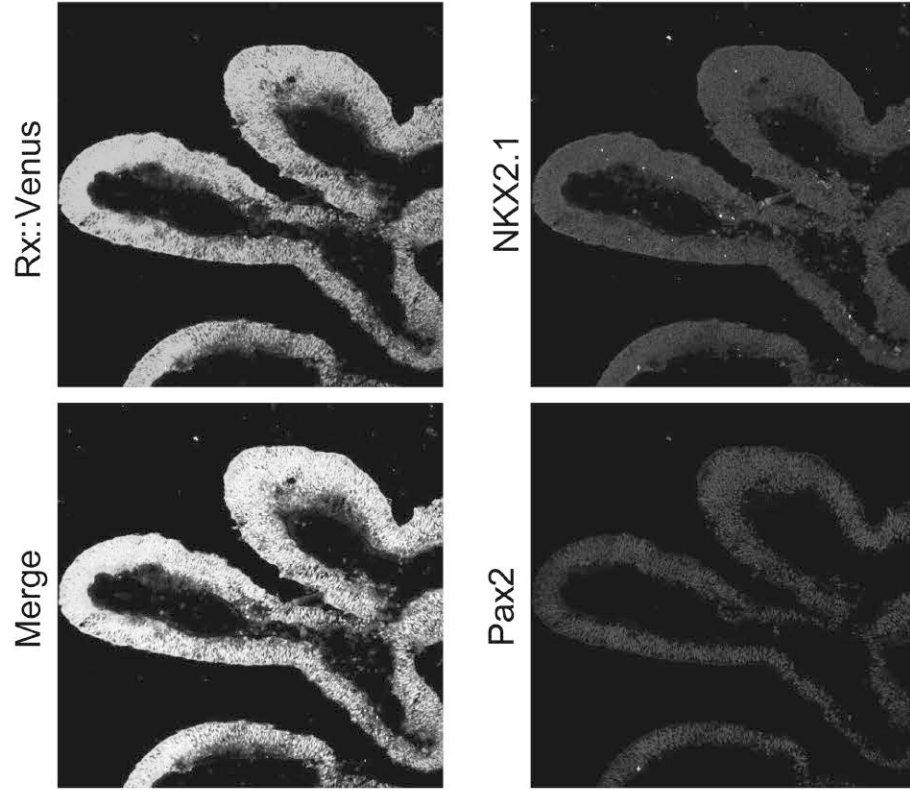


Fig.79

0nM



300nM

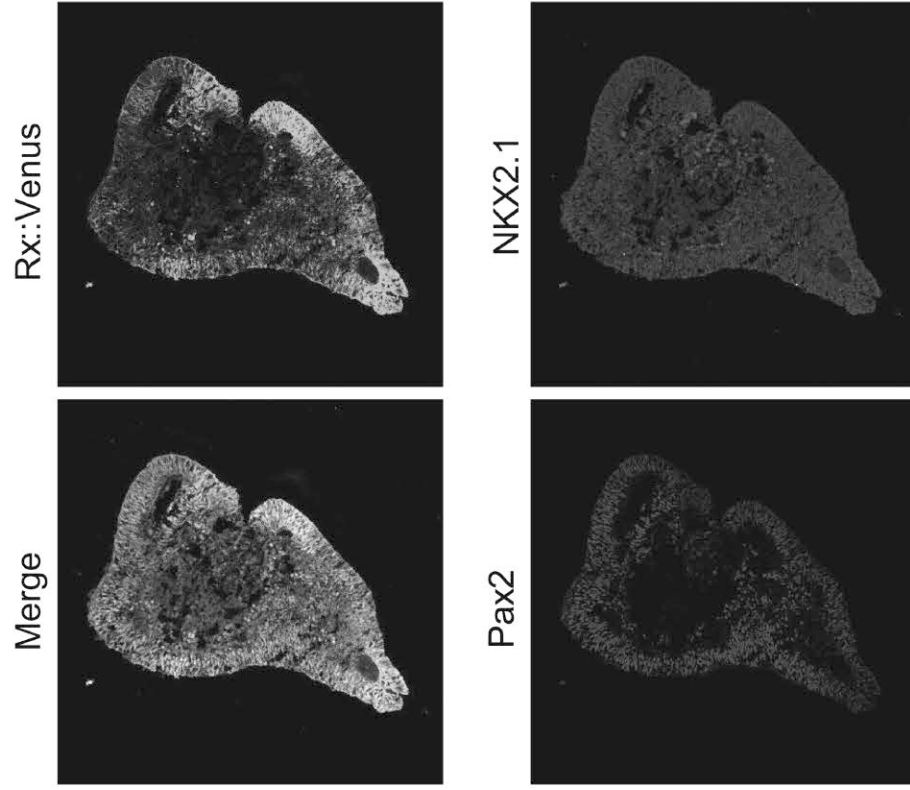


Fig.80

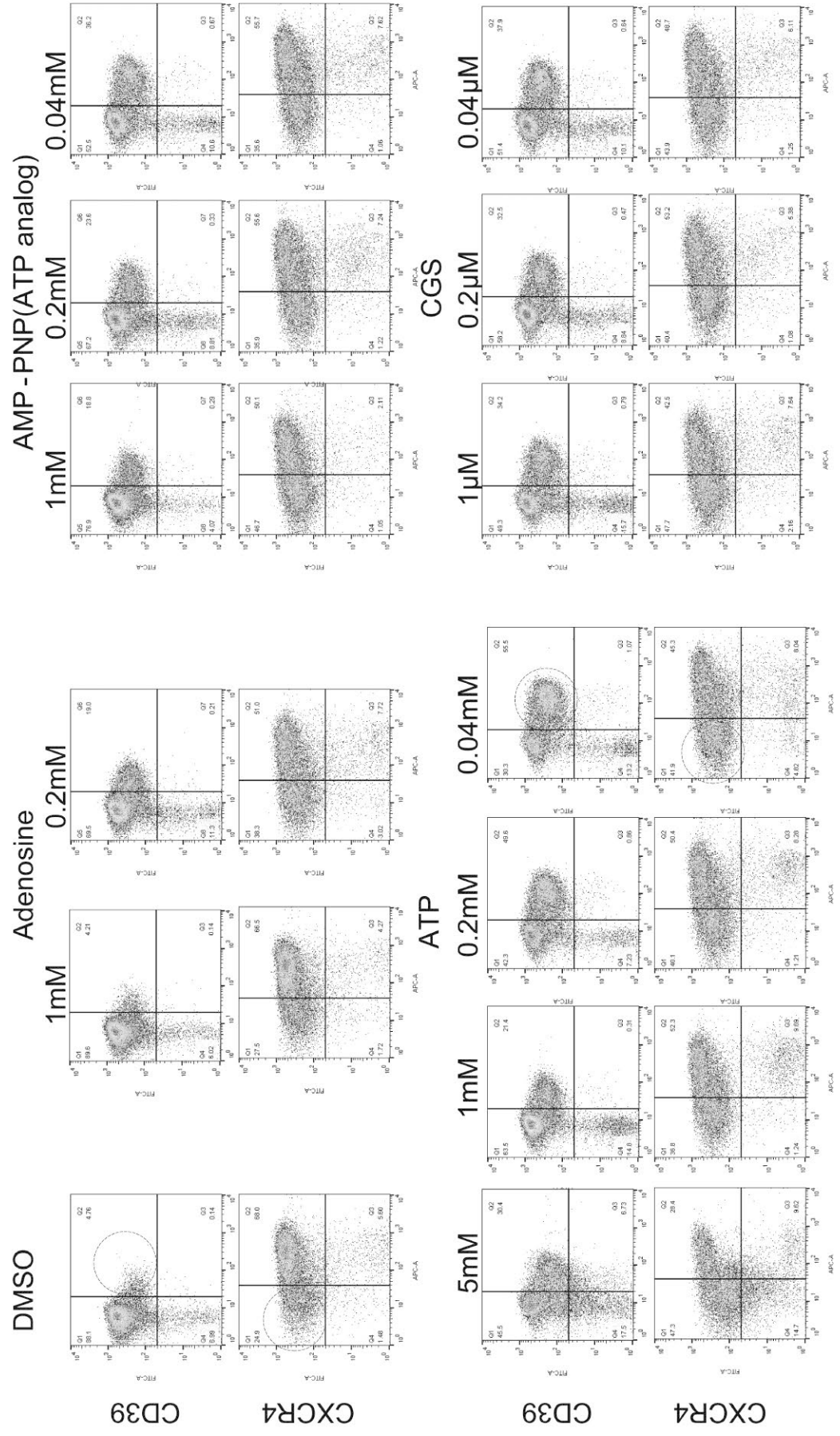


Fig.81

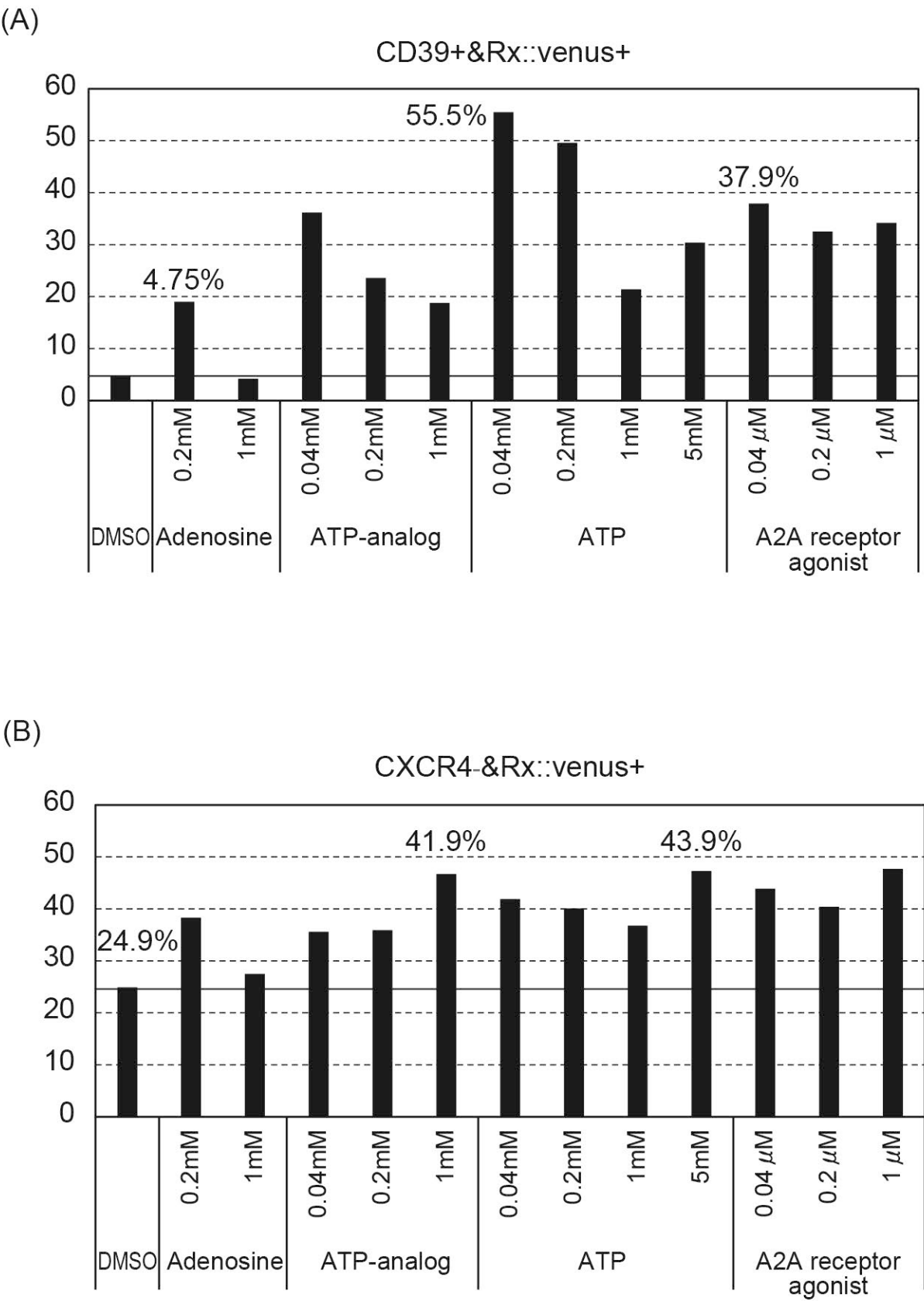


Fig.82

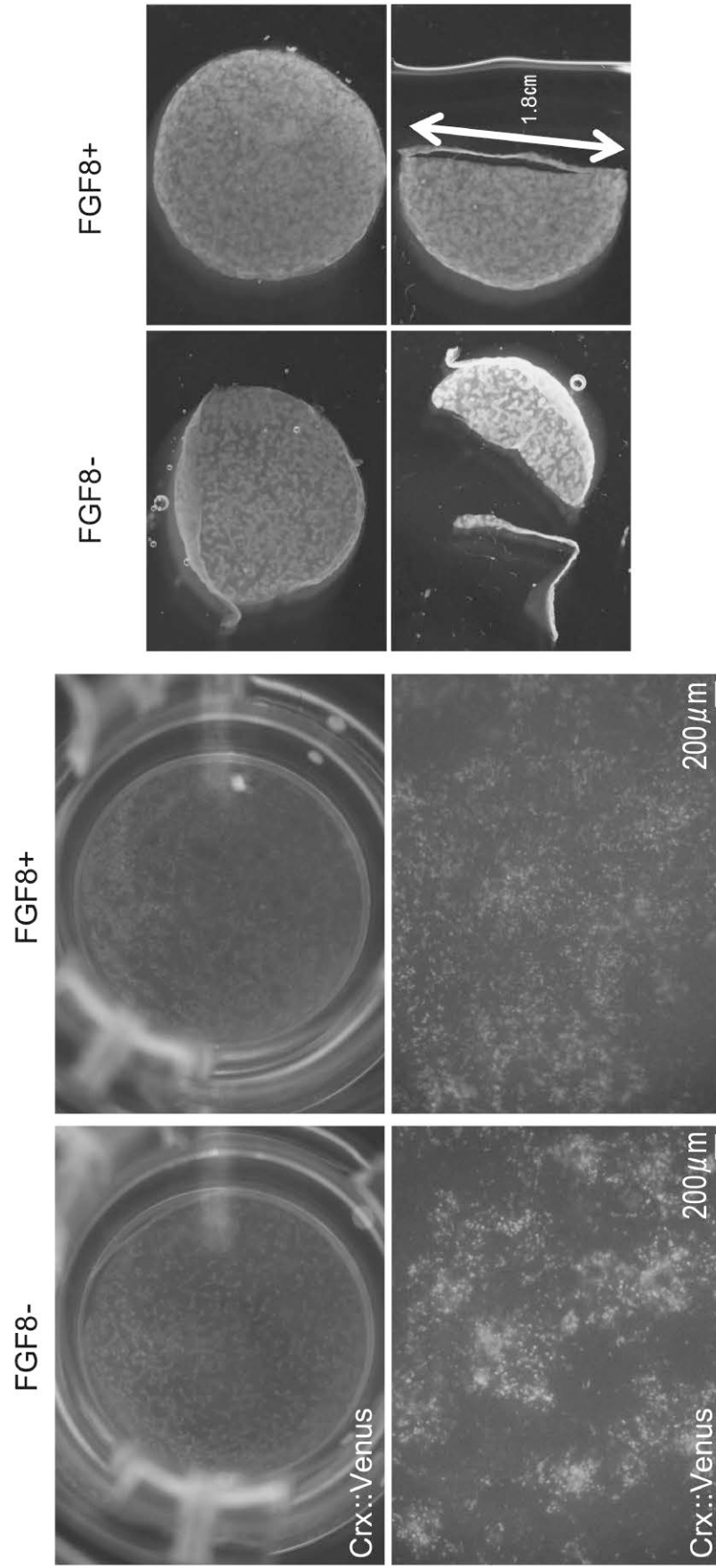


Fig.83

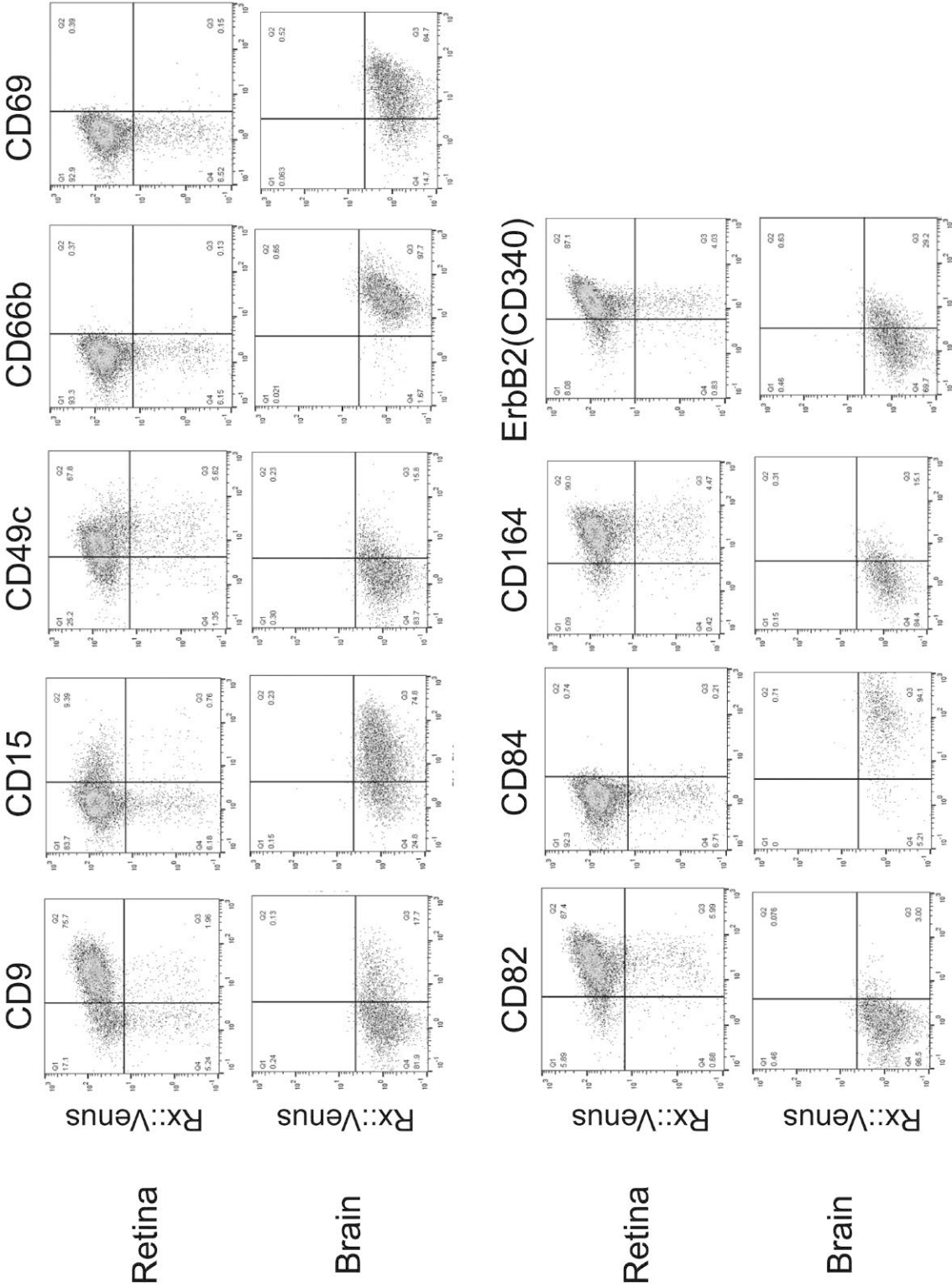


Fig.84

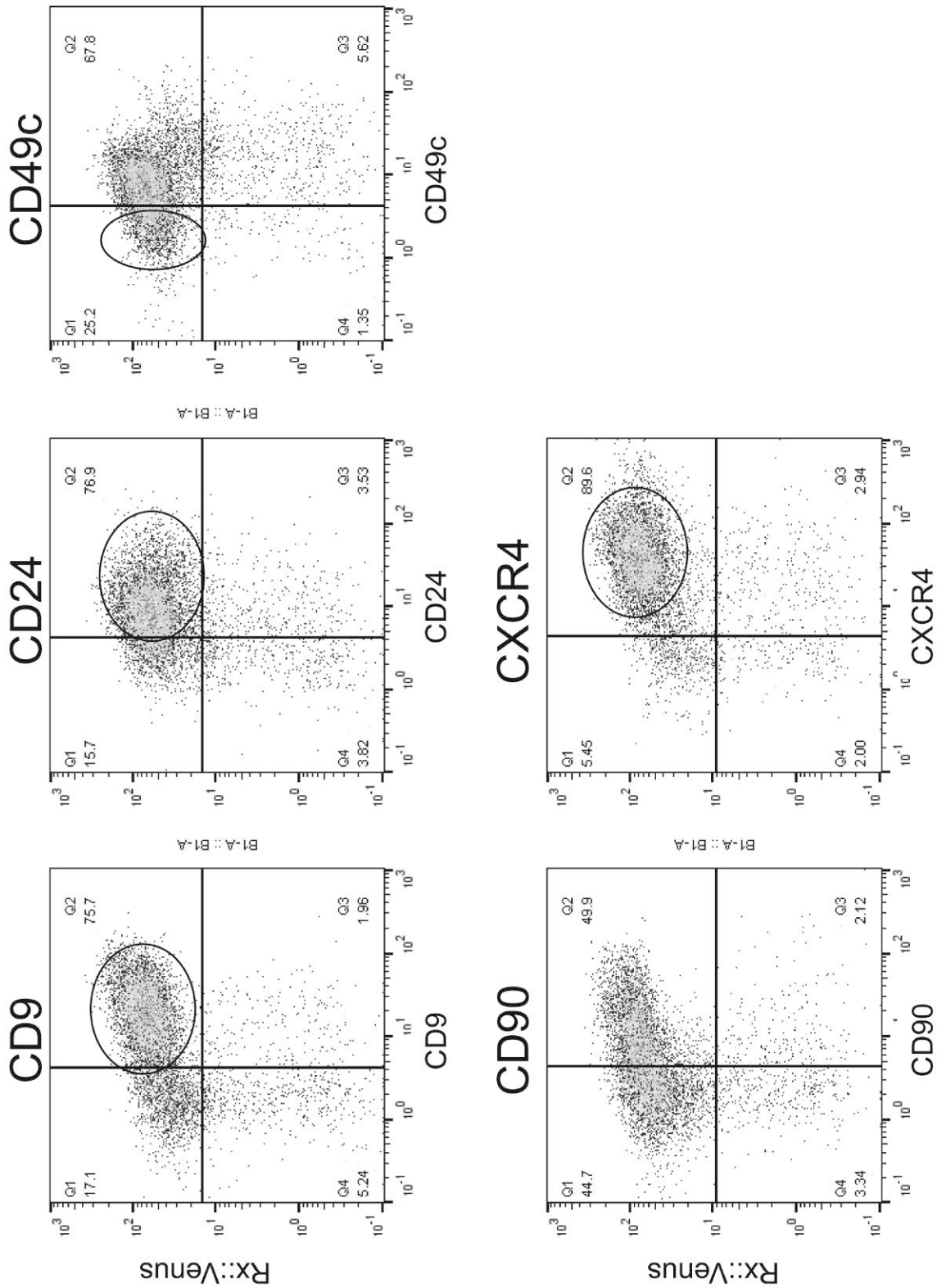


Fig.85

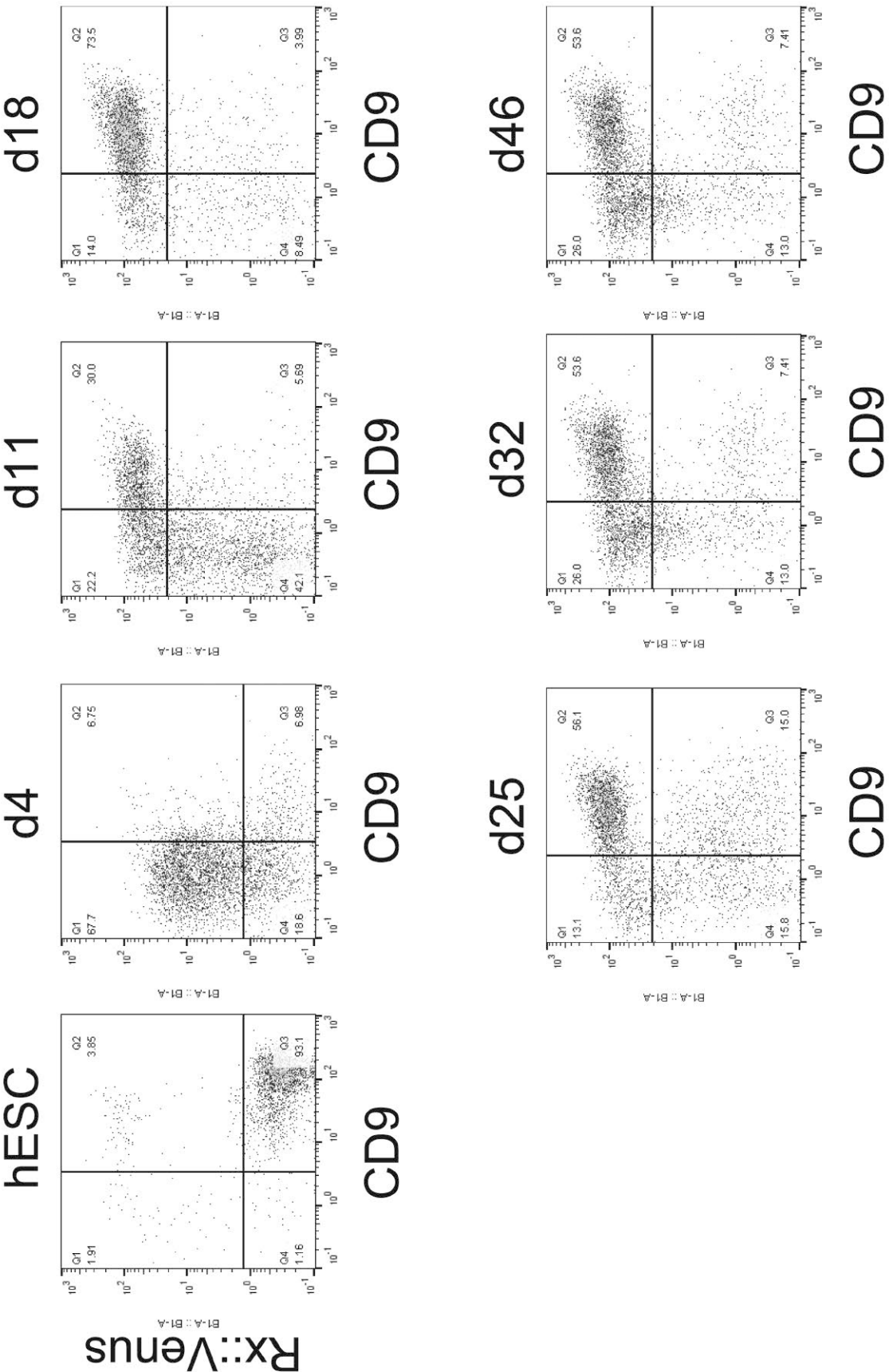


Fig.86

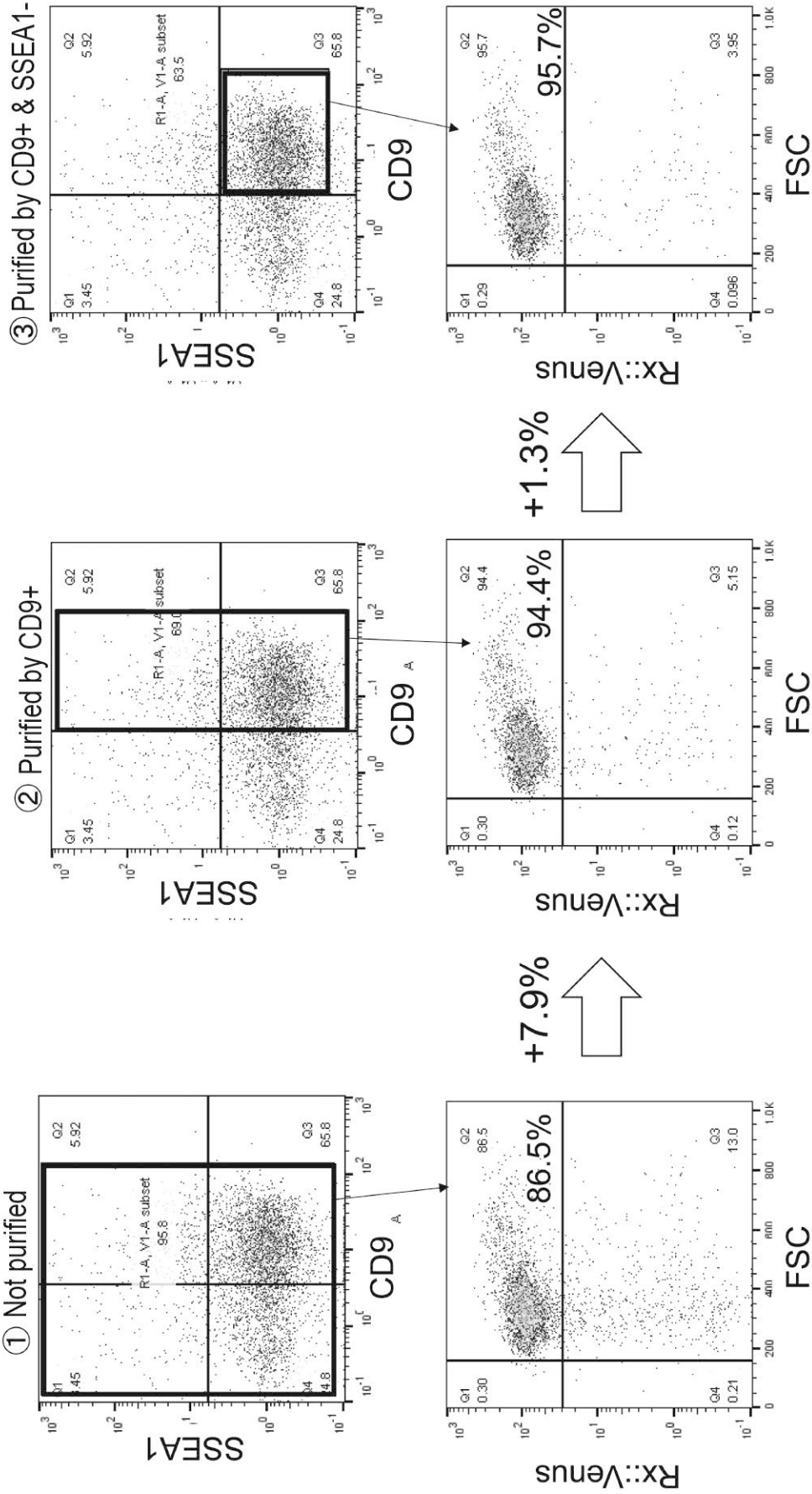
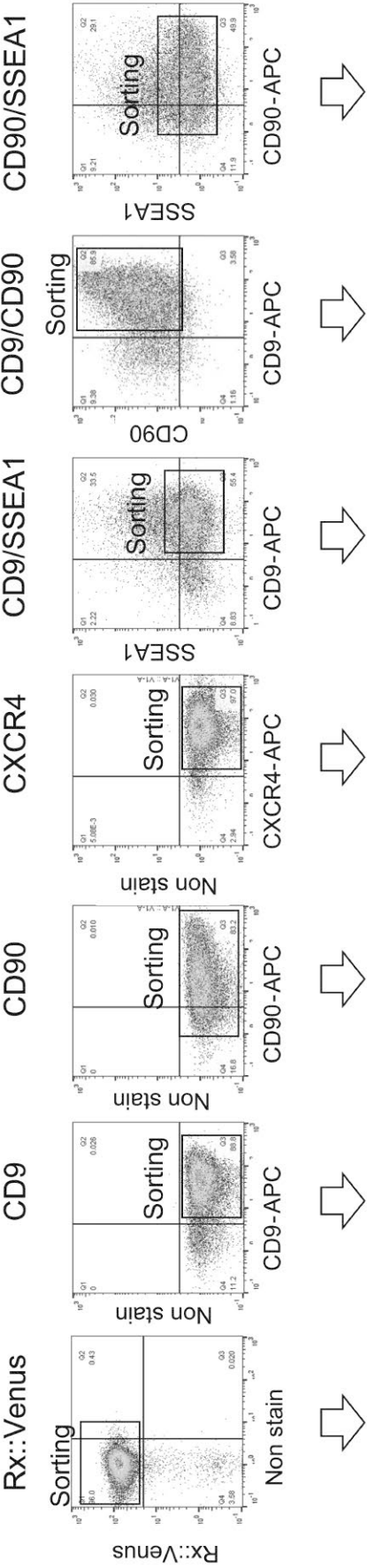


Fig.87

Before sorting



After sorting

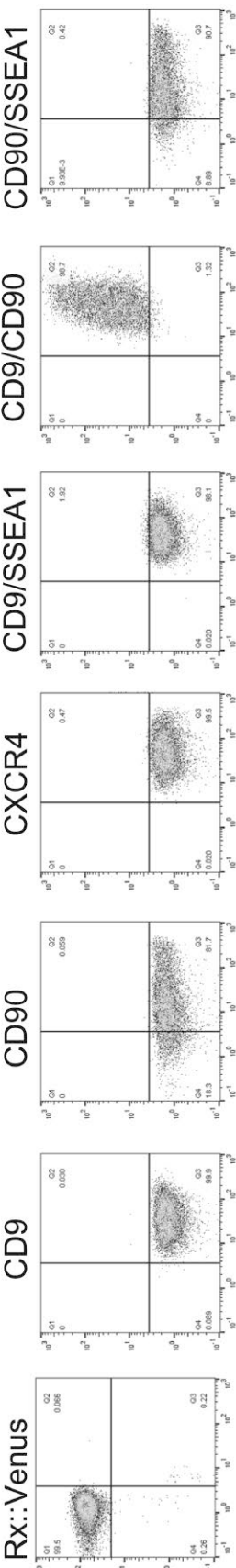


Fig.88

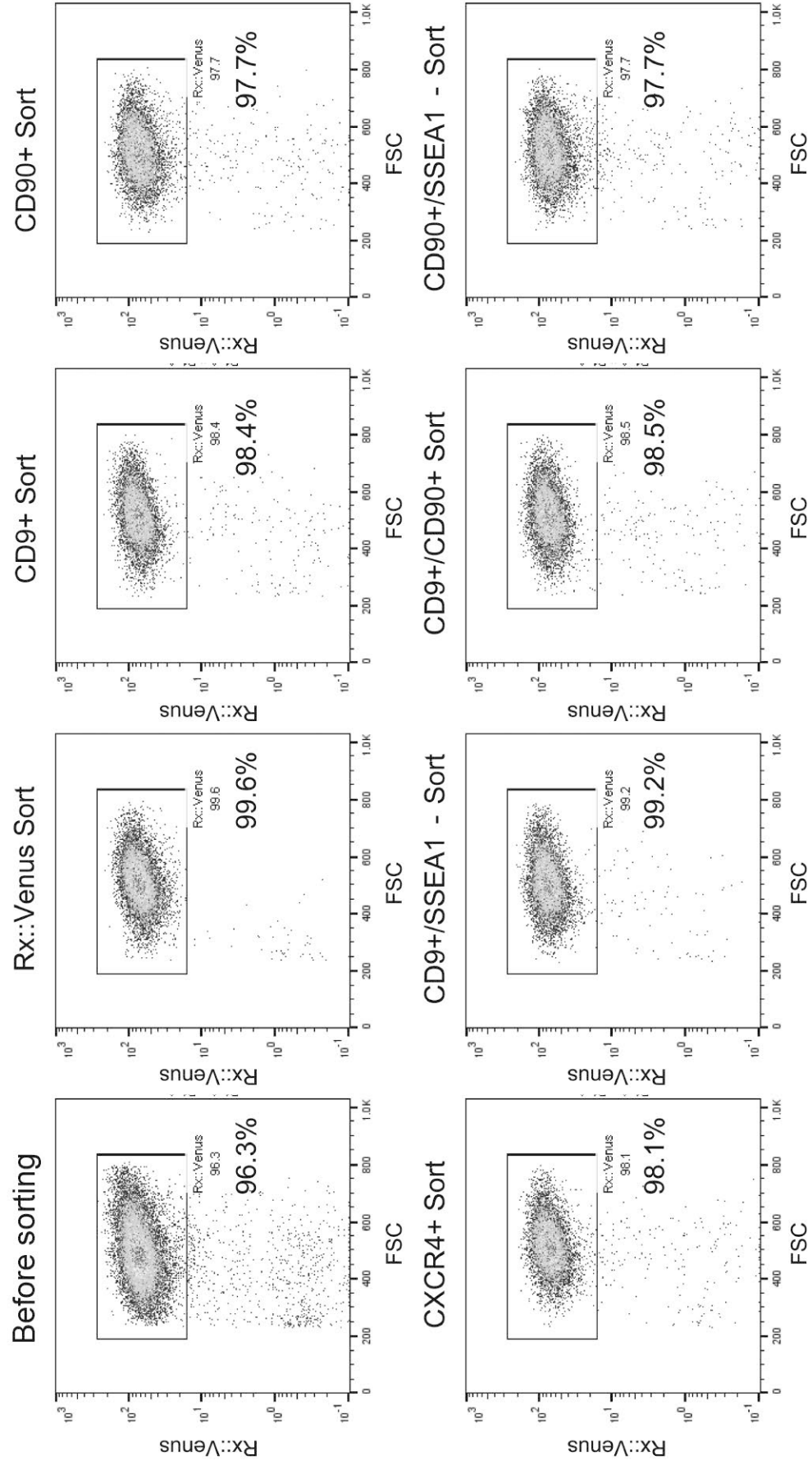


Fig.89

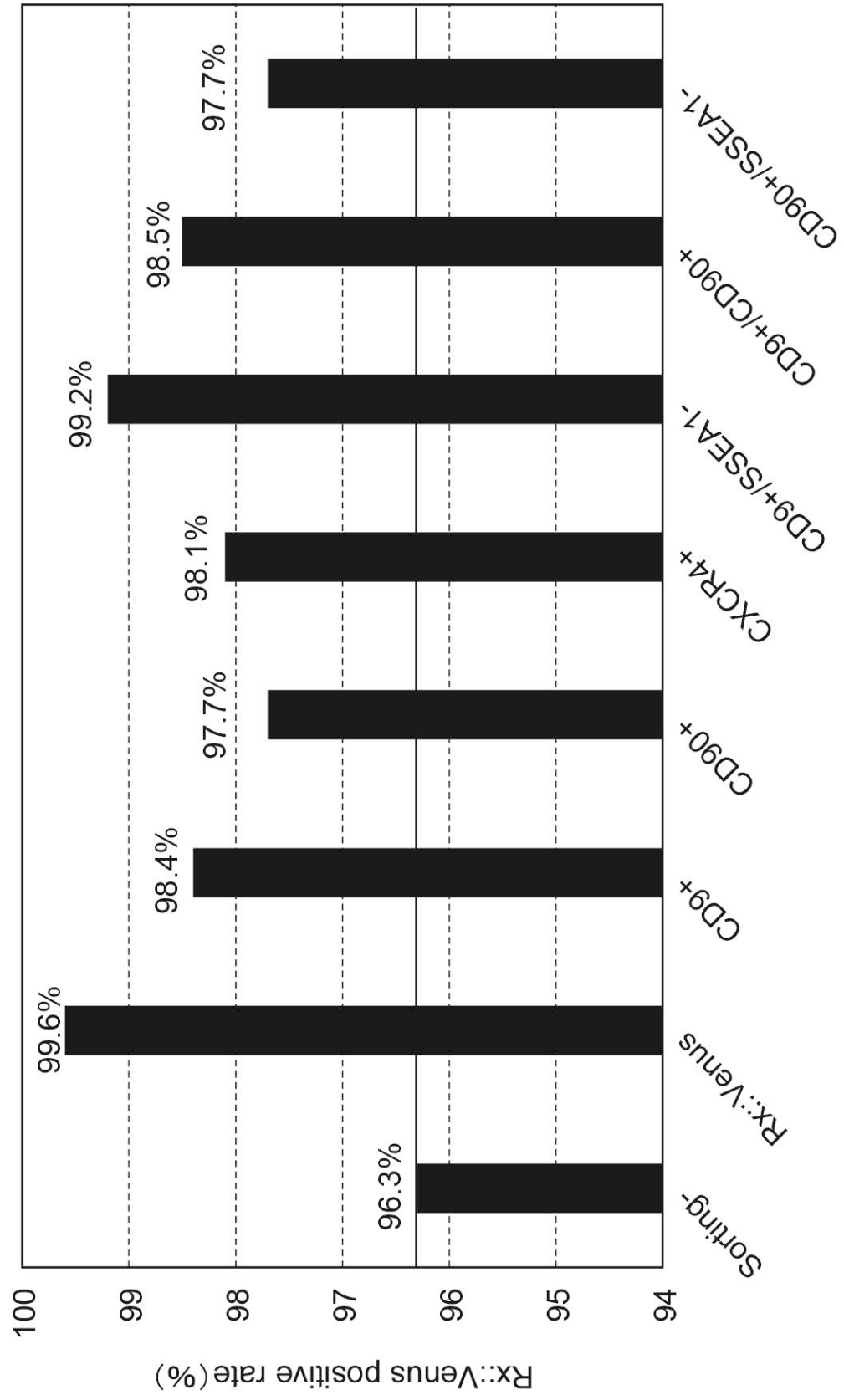


Fig.90

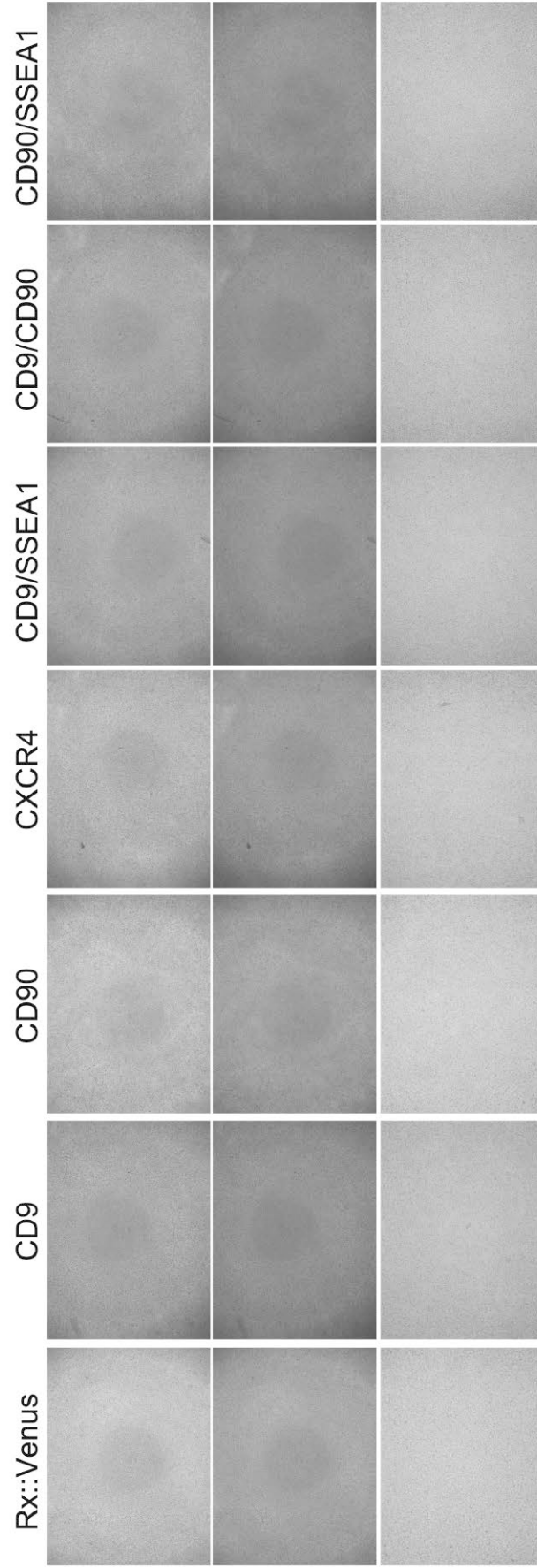


Fig.91

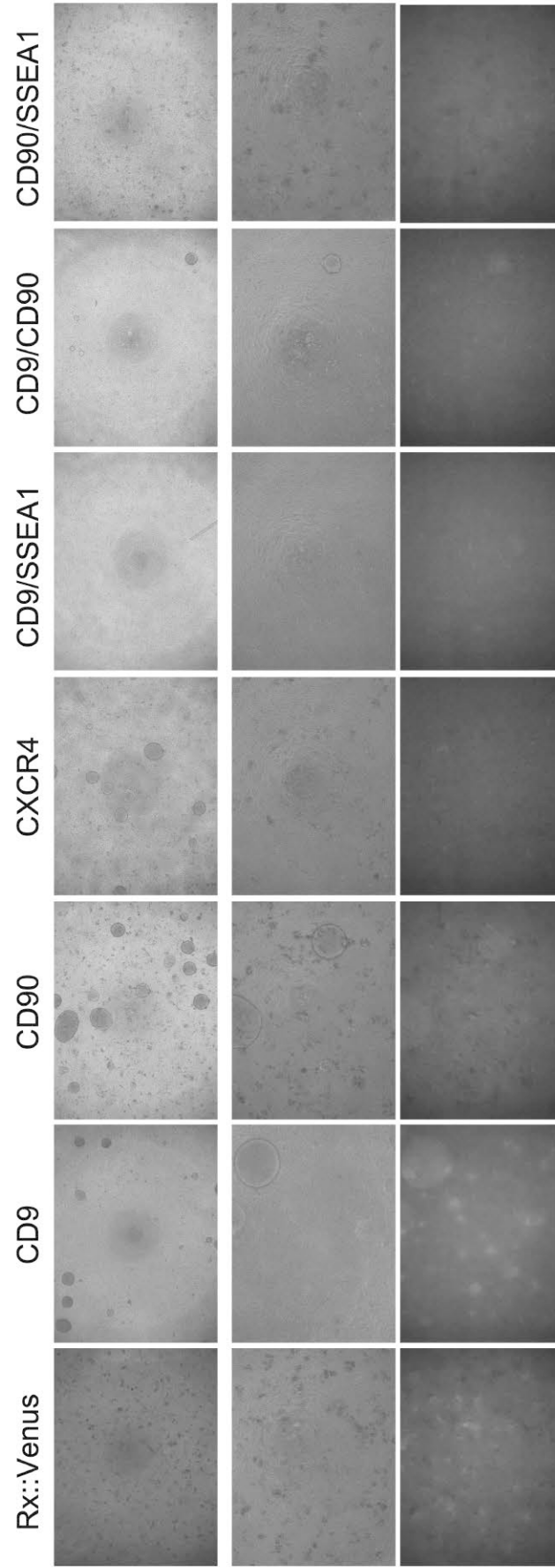


Fig.92

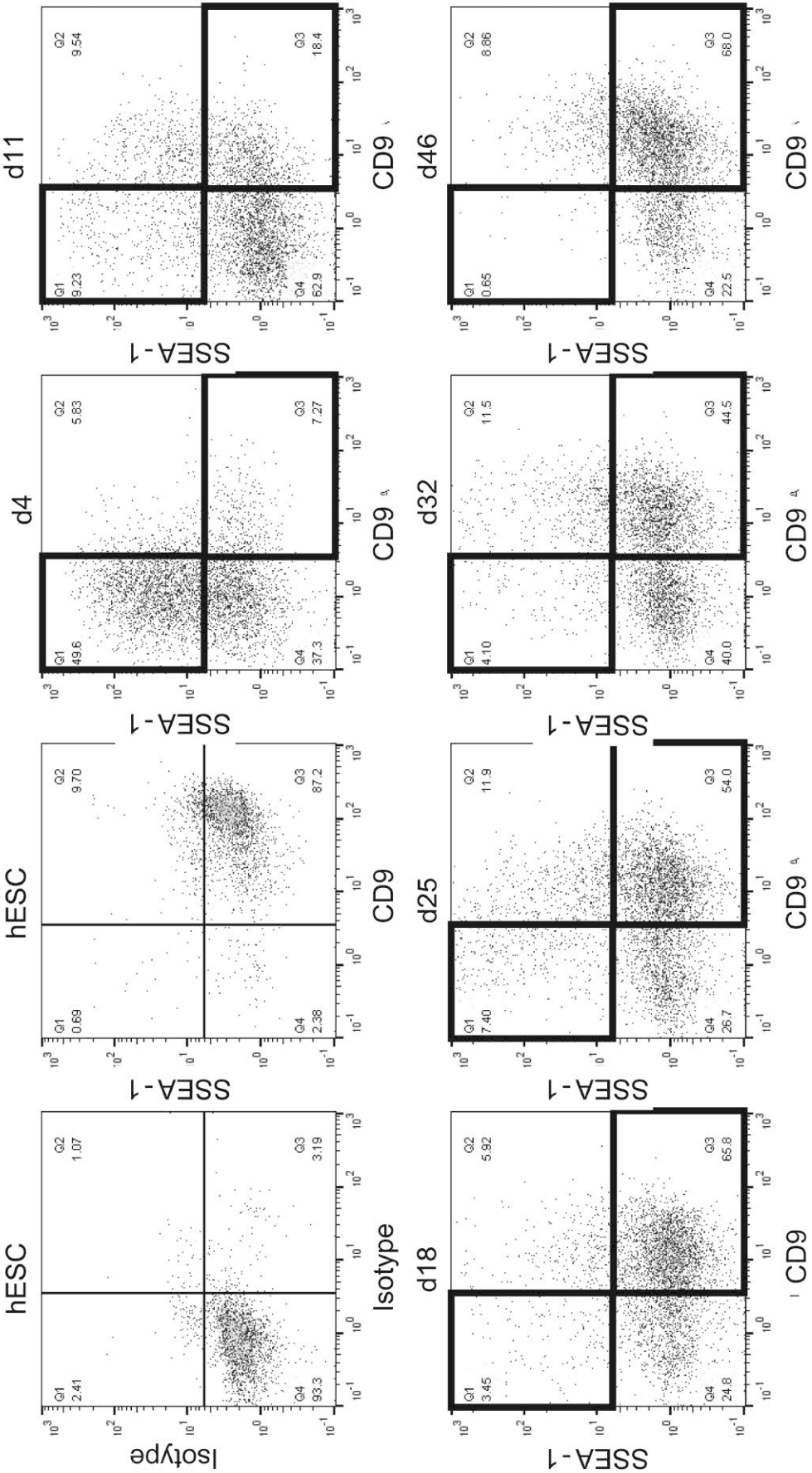


Fig.93

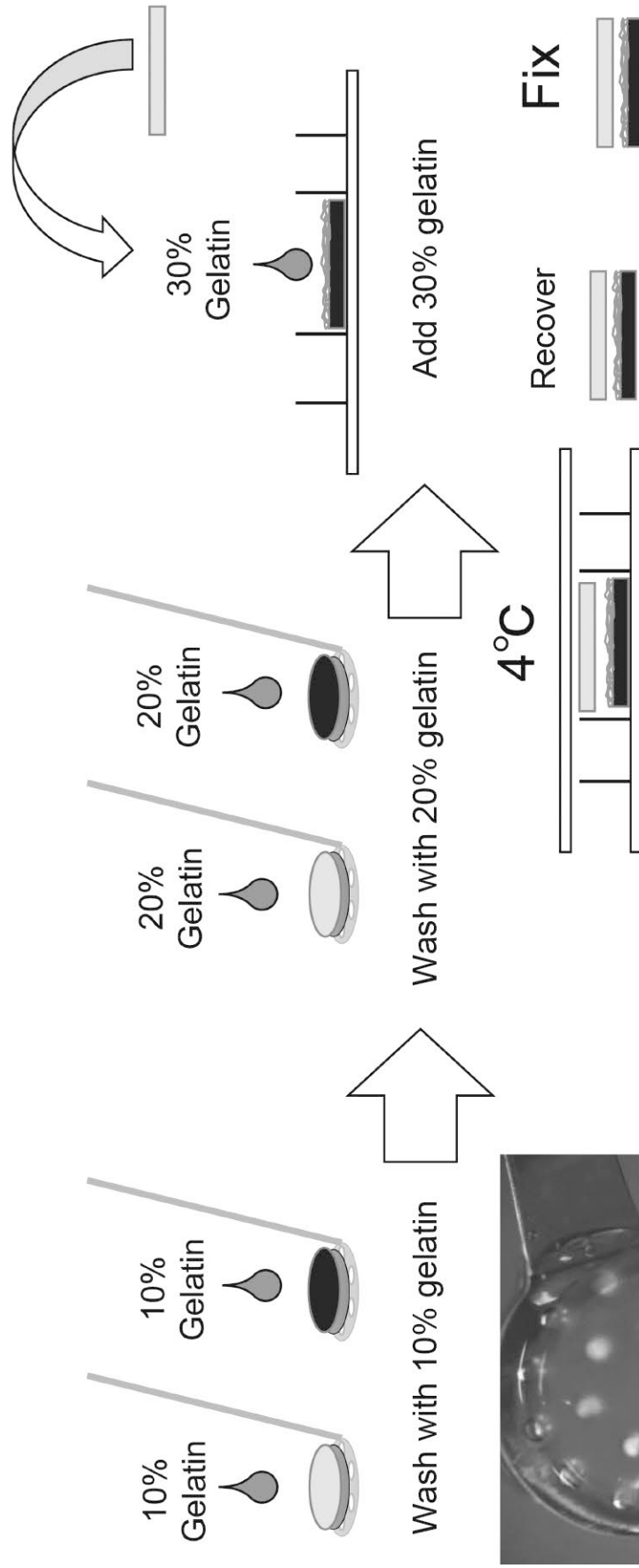


Fig.94

NR sheet used



RPE sheet used

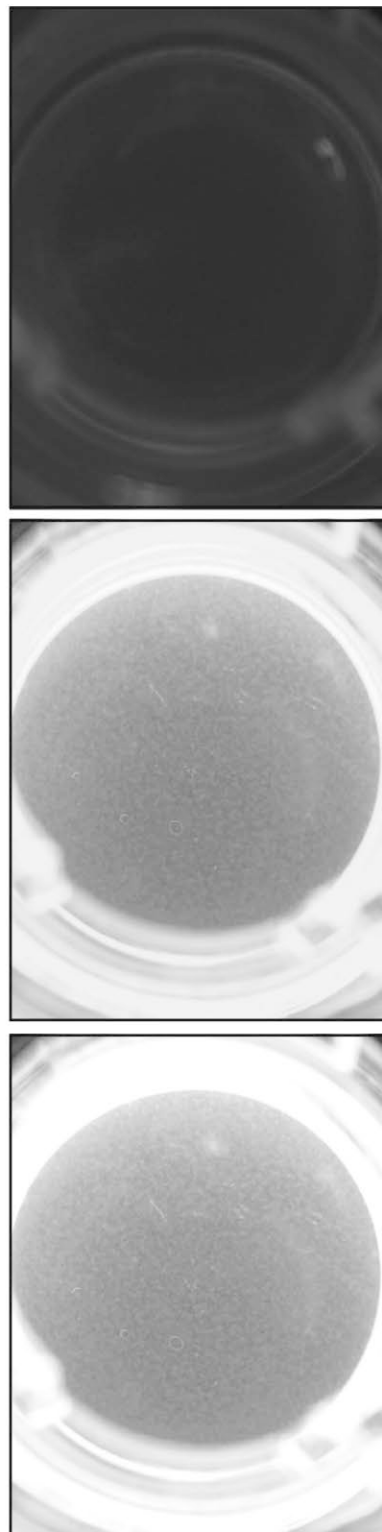


Fig.95

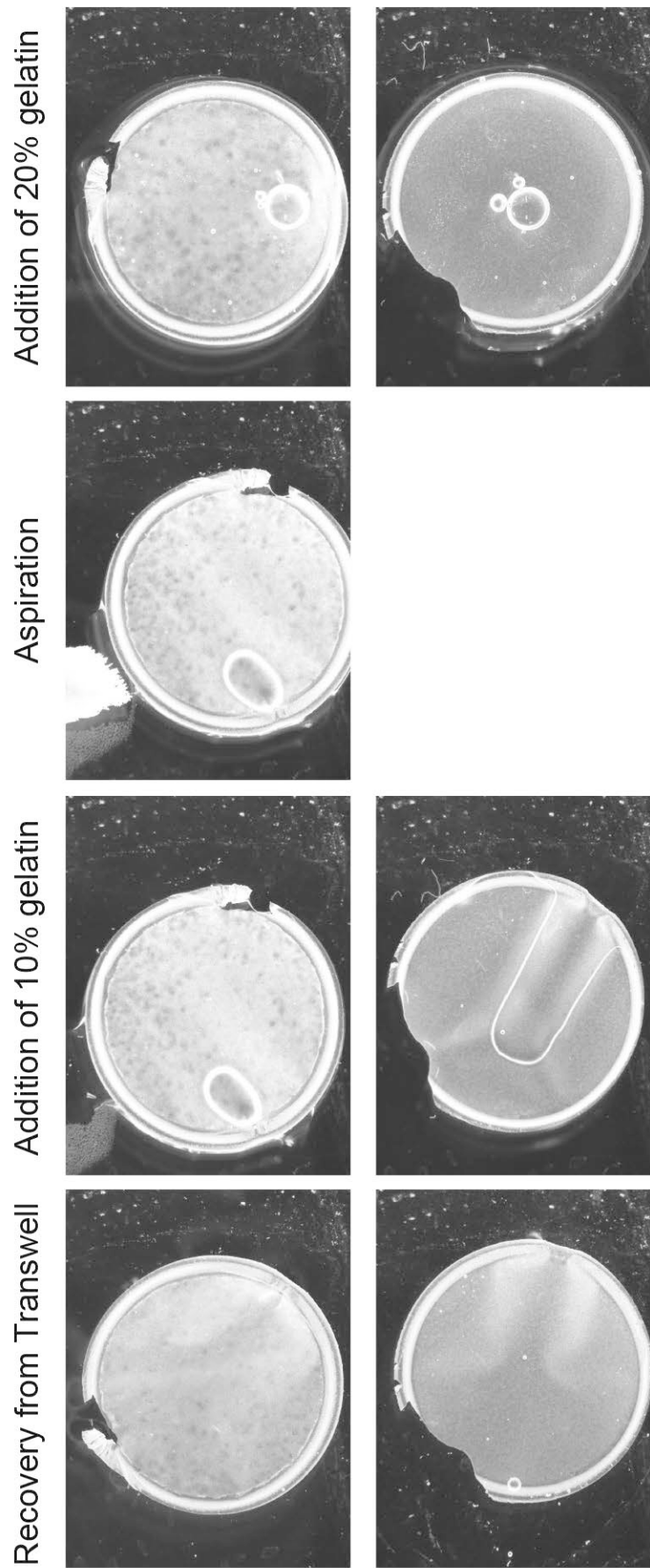
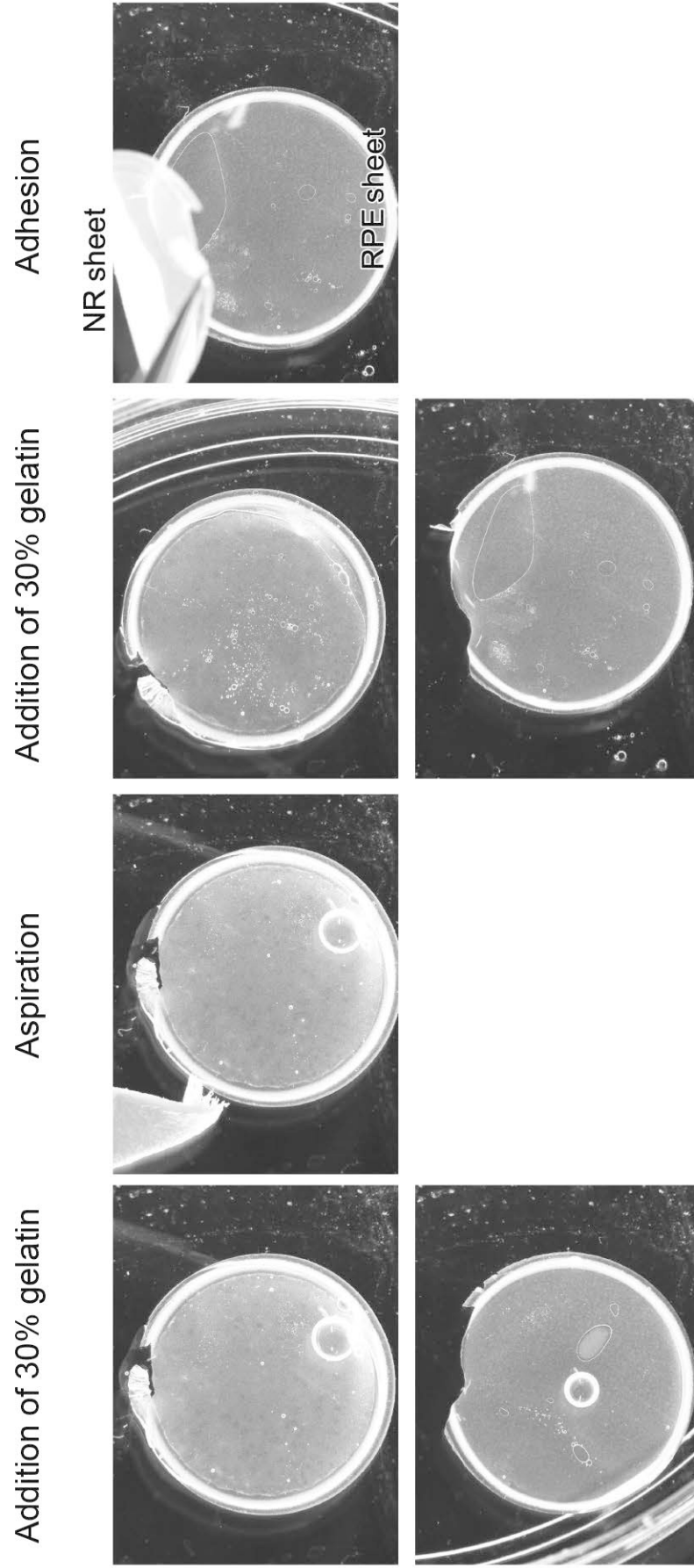


Fig.96



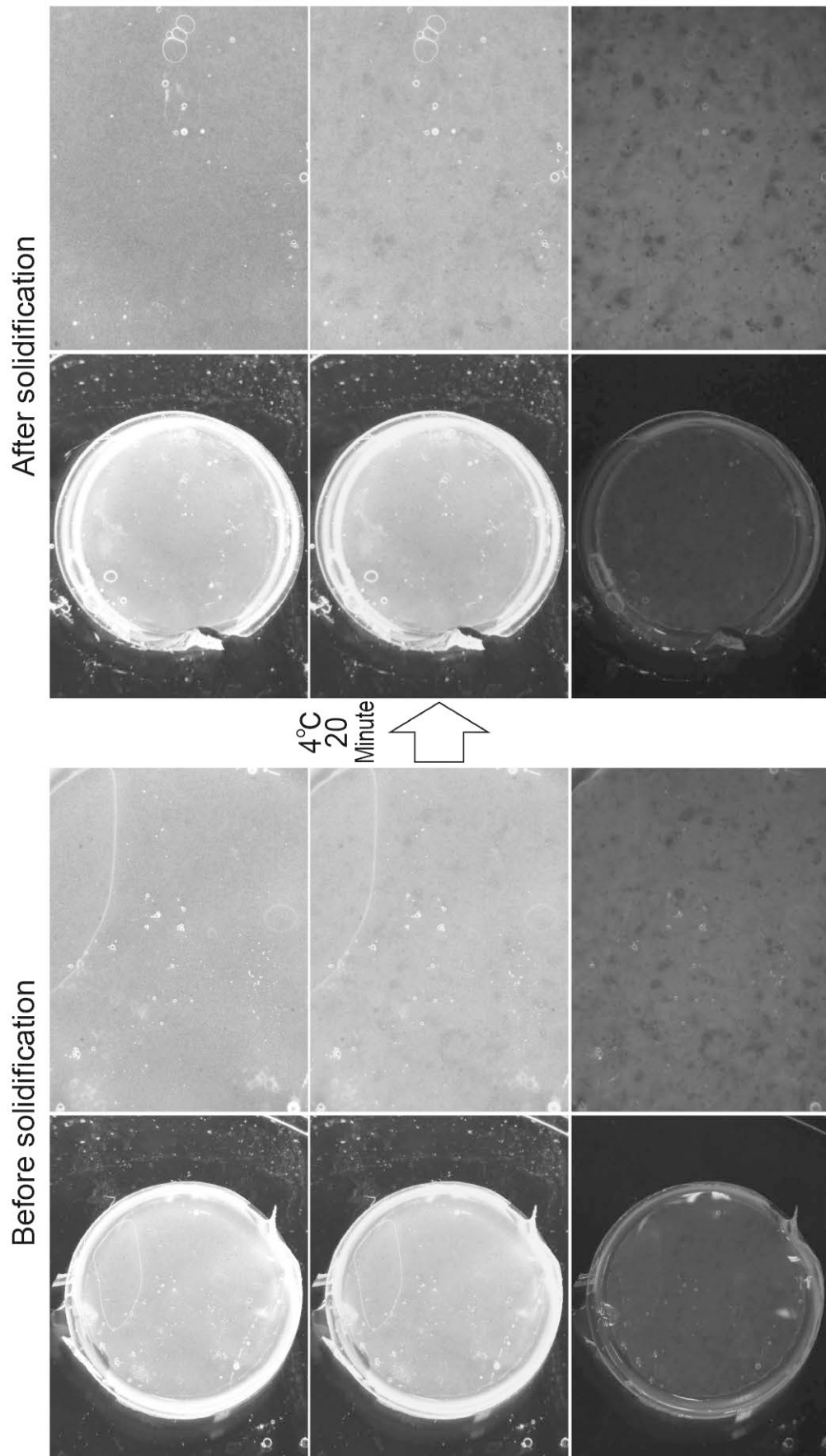


Fig.97

Fig.98

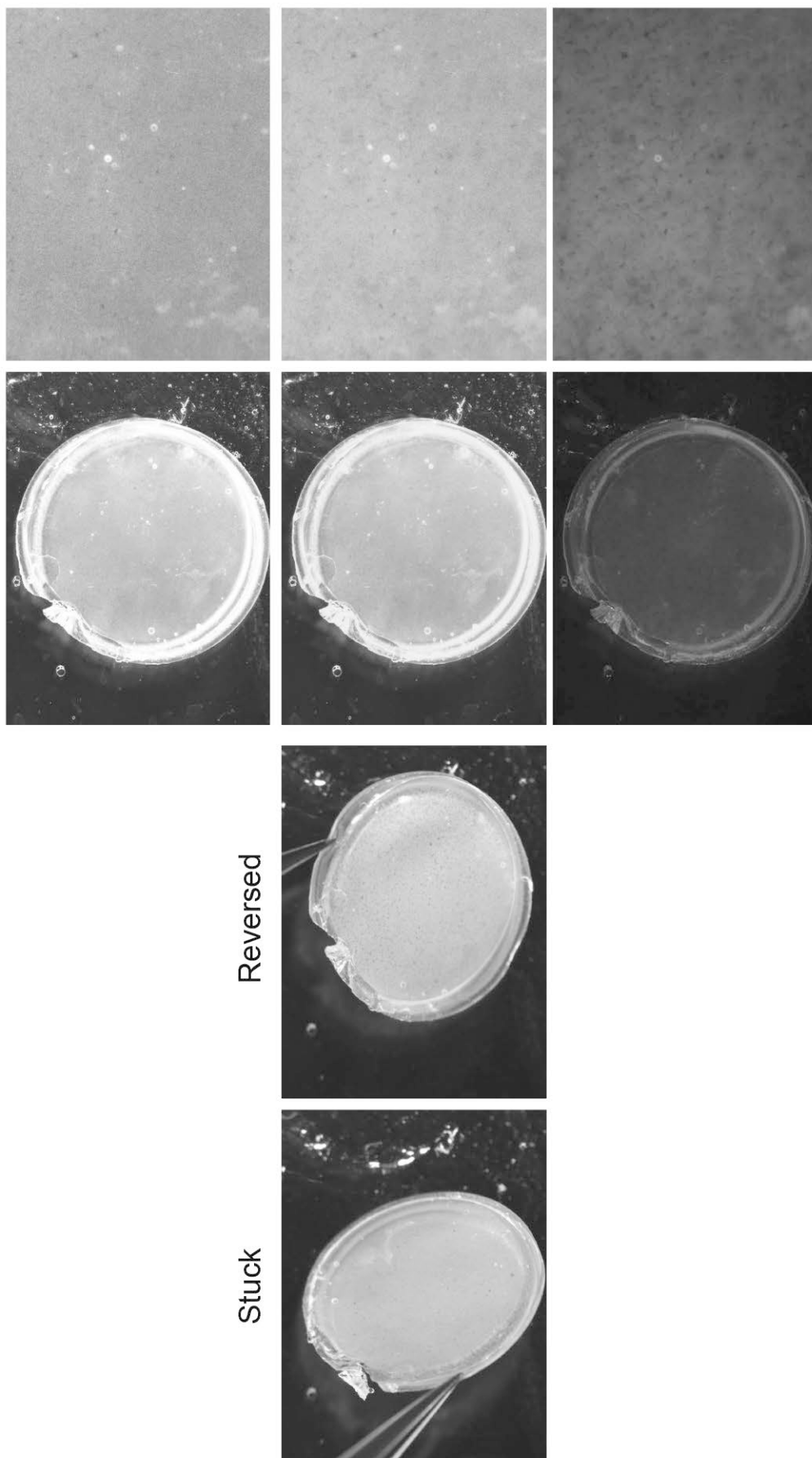


Fig.99

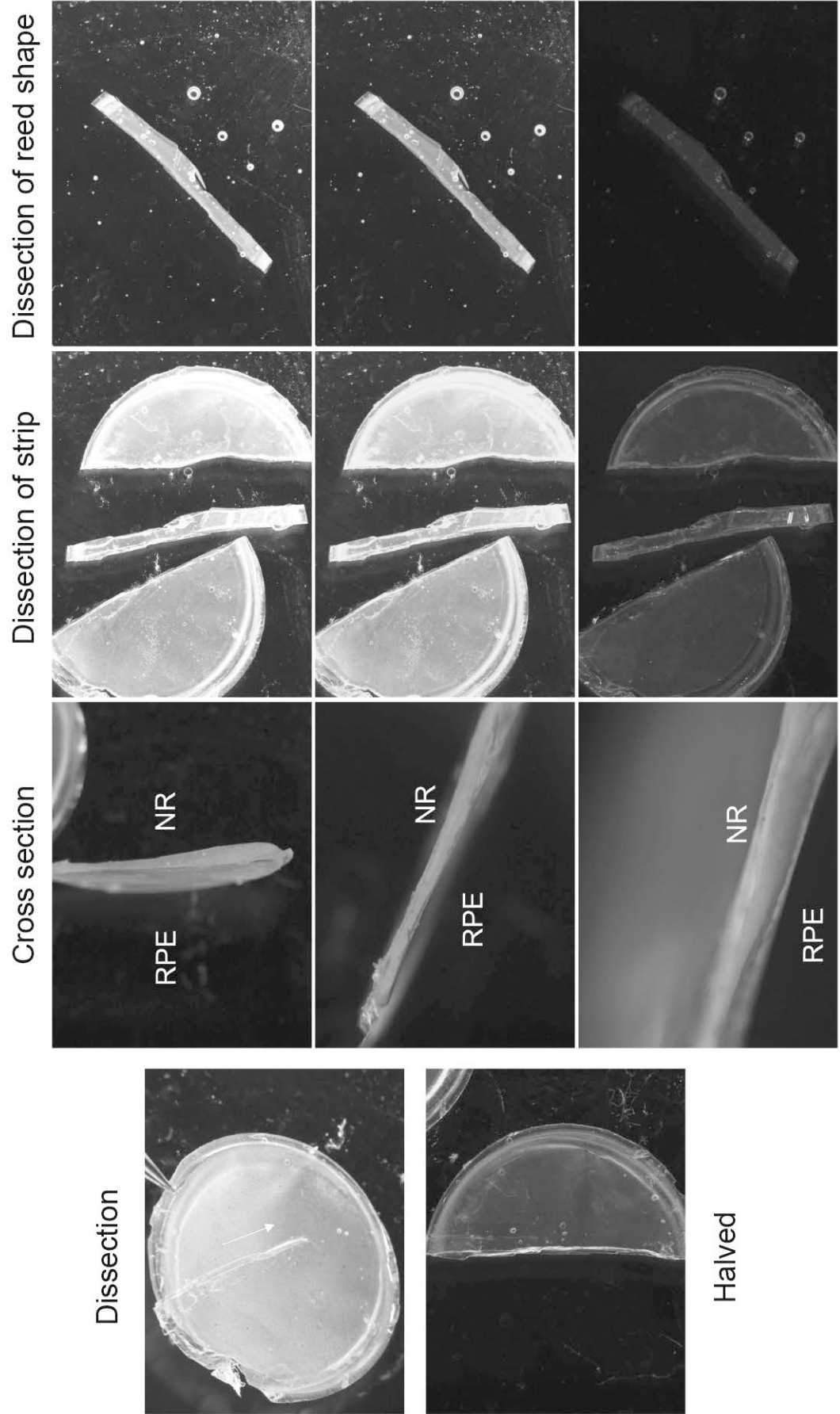


Fig.100

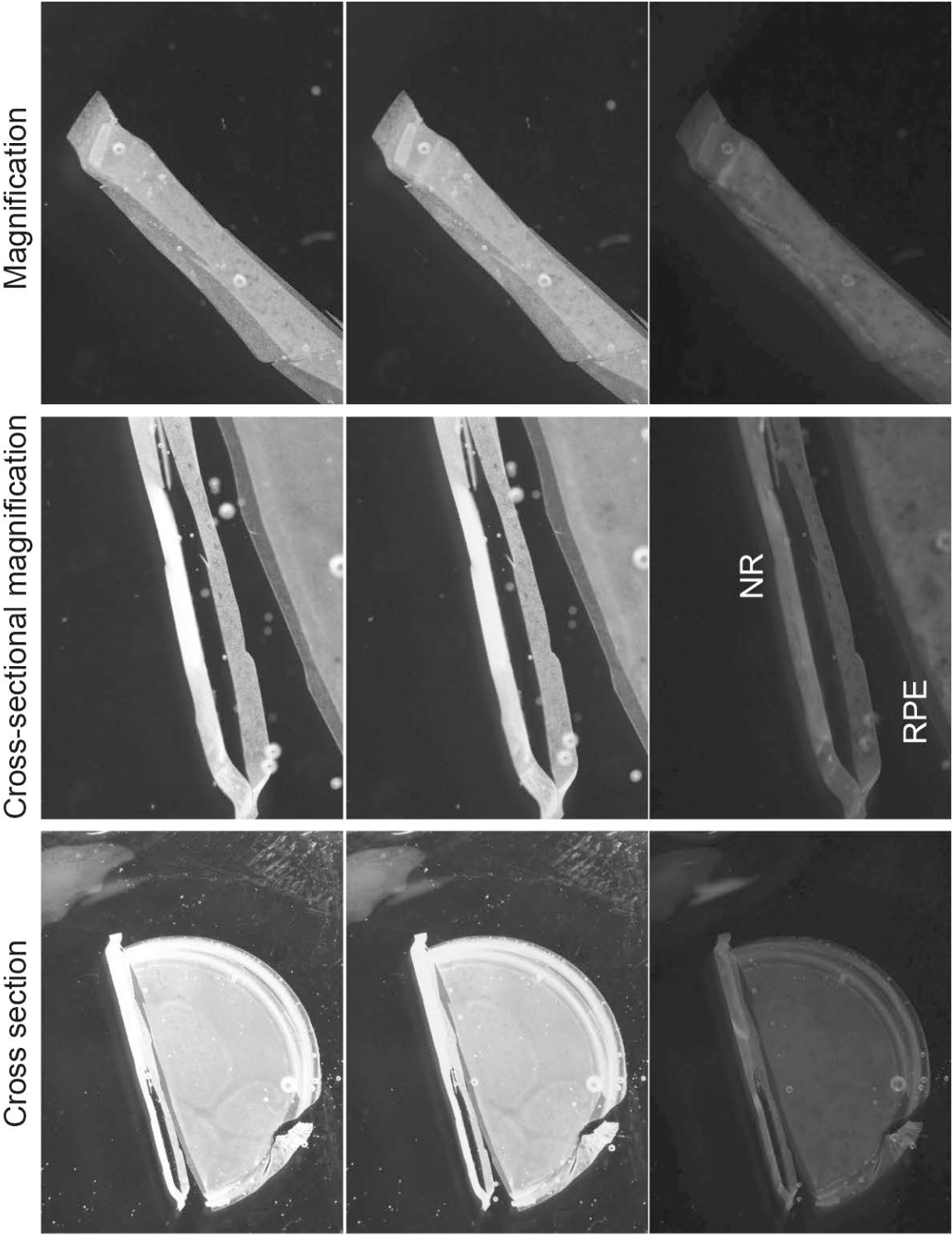
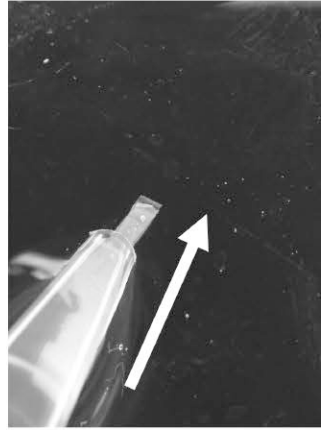
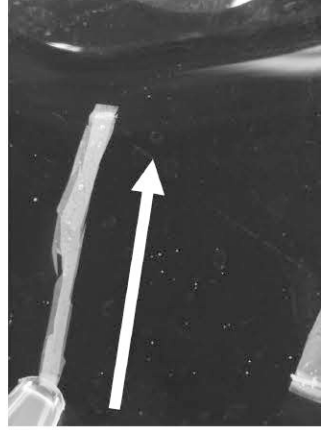


Fig.101

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Discharge



Aspiration

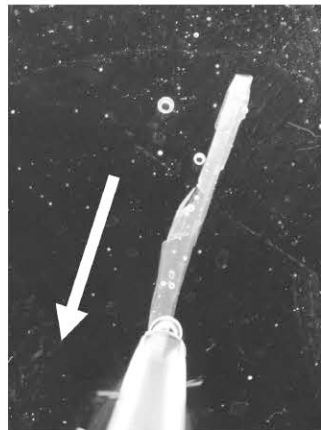
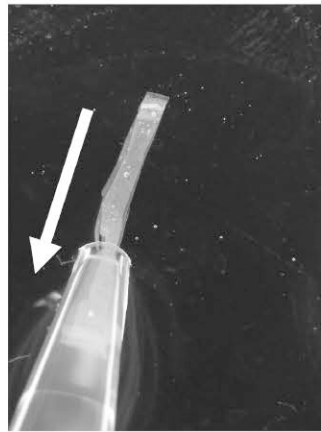


Fig.102

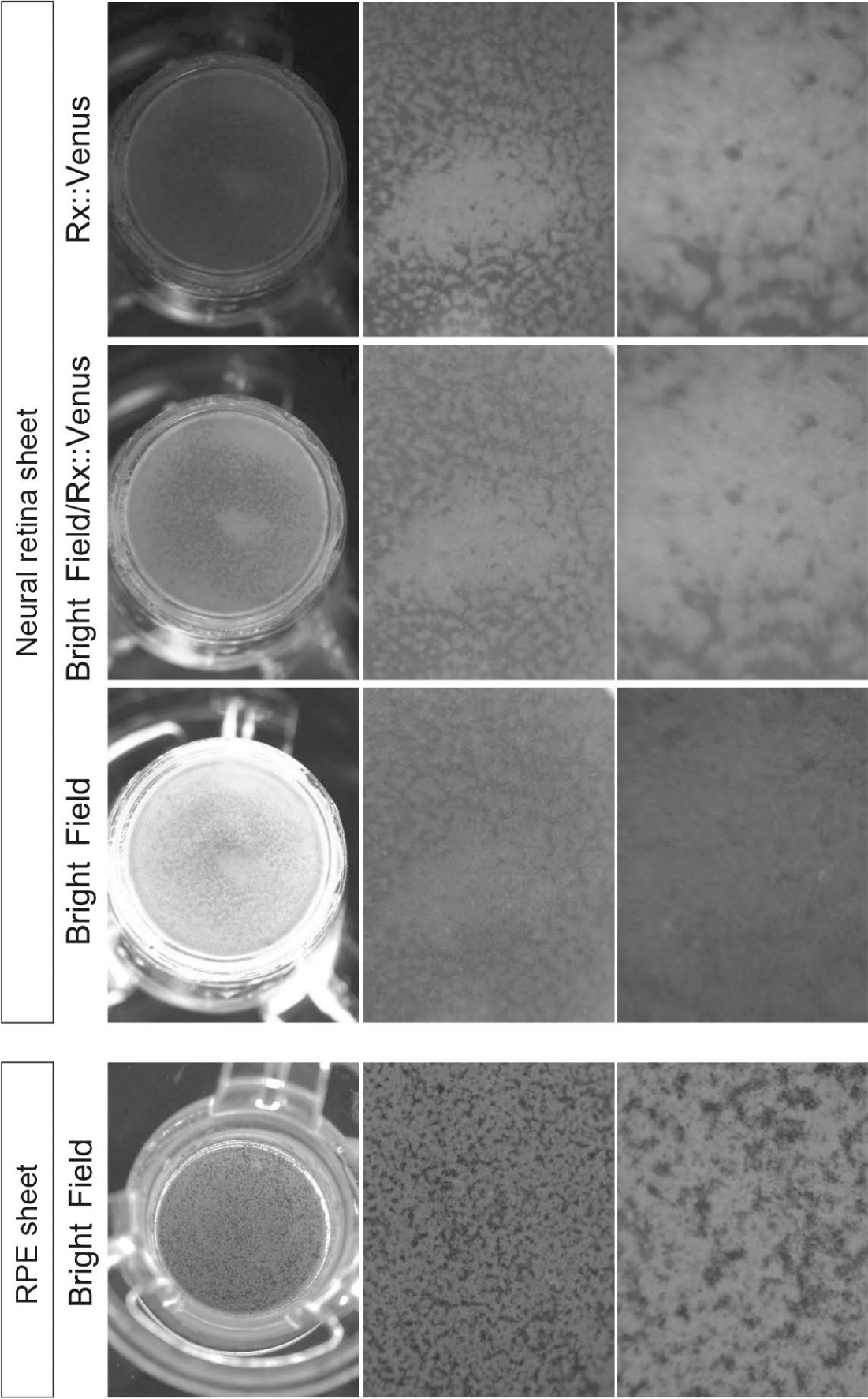


Fig.103

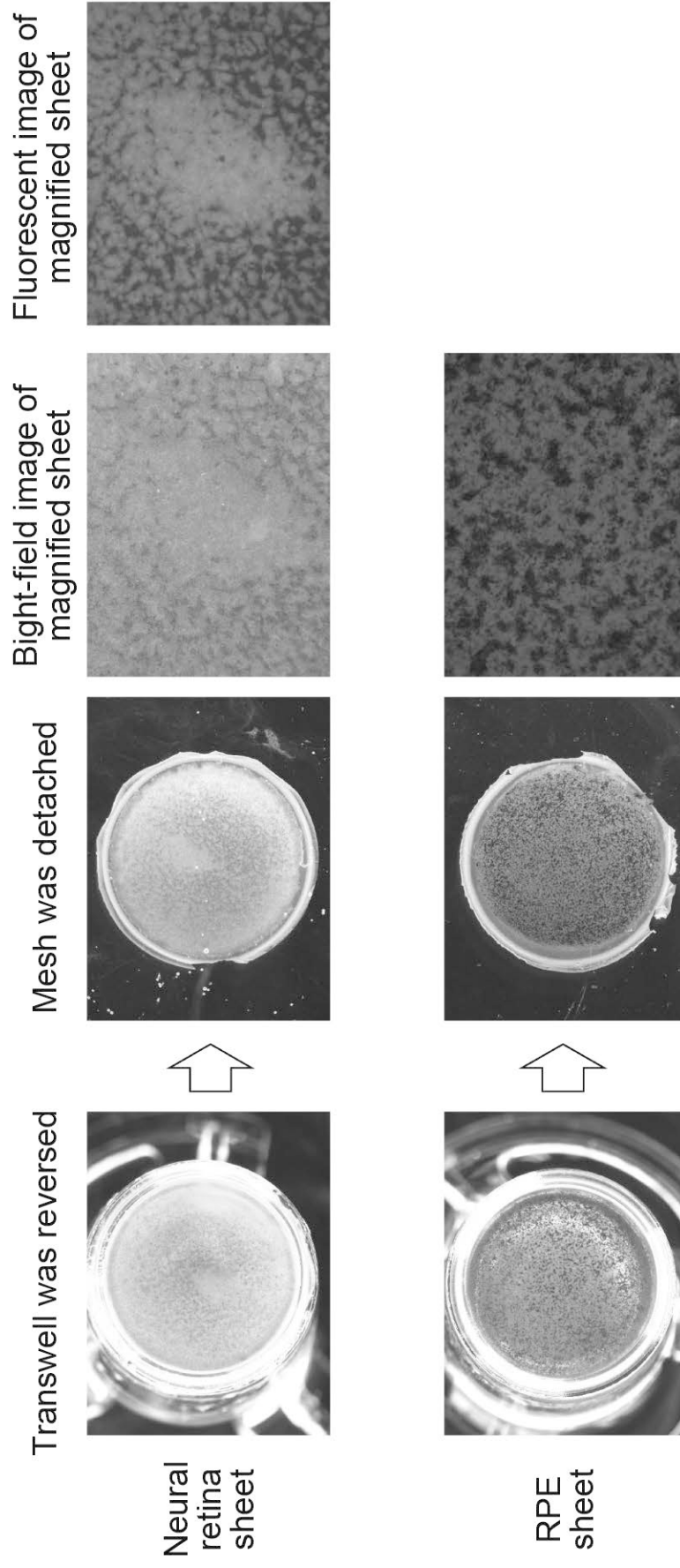


Fig.104

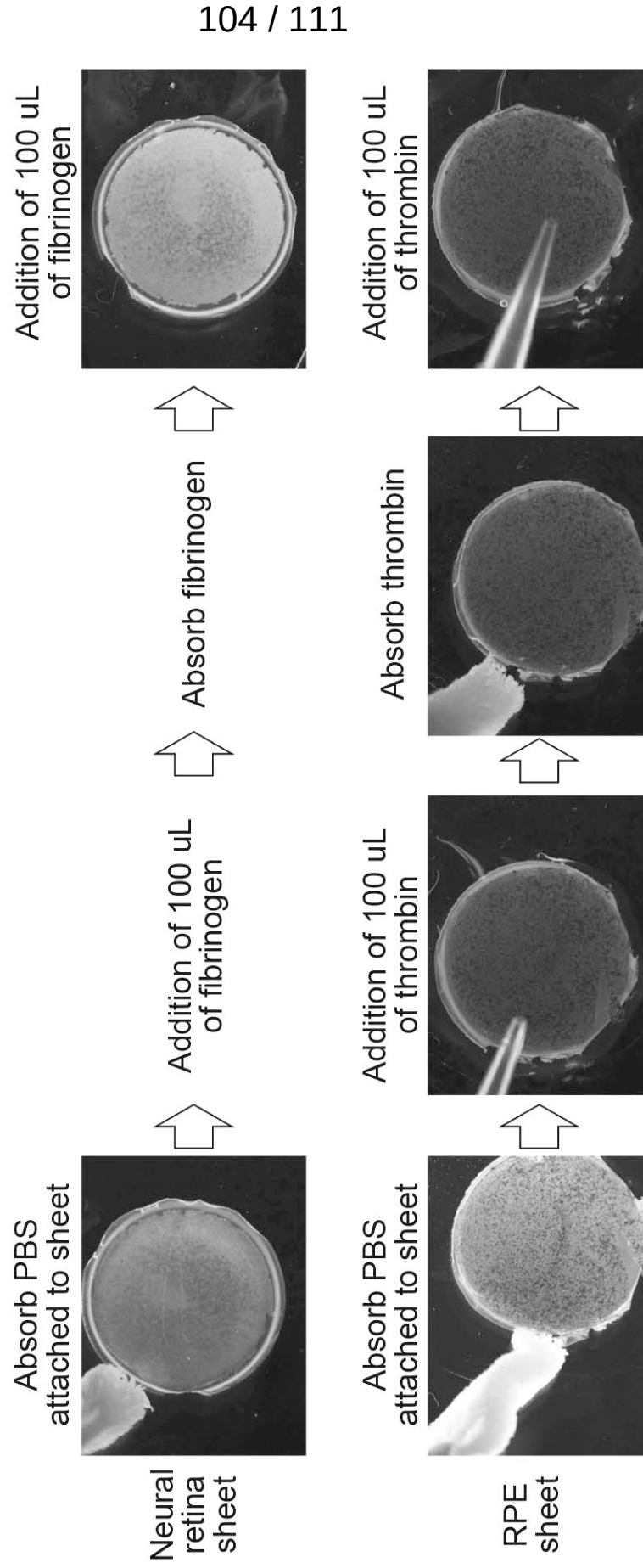


Fig.105

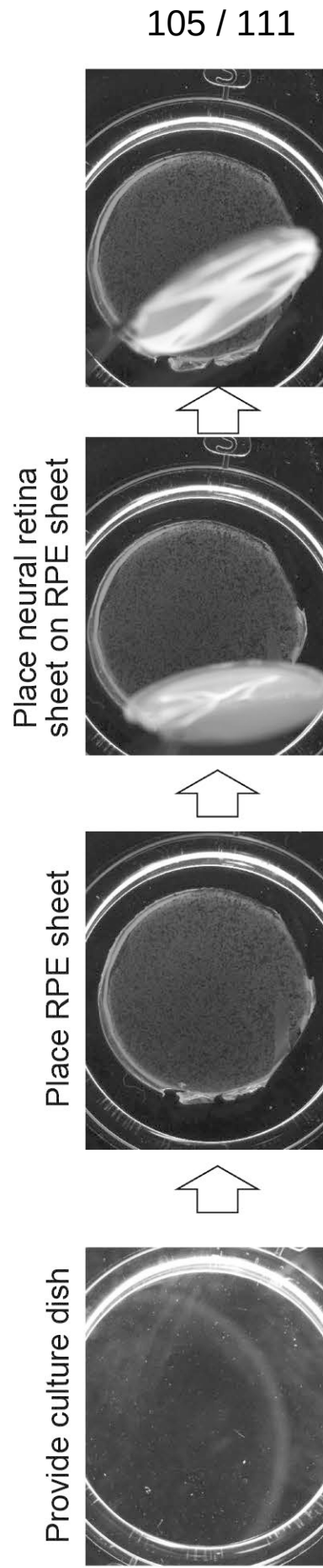


Fig.106

After neural retina sheet and RPE sheet are contacted and incubated for 5 minutes

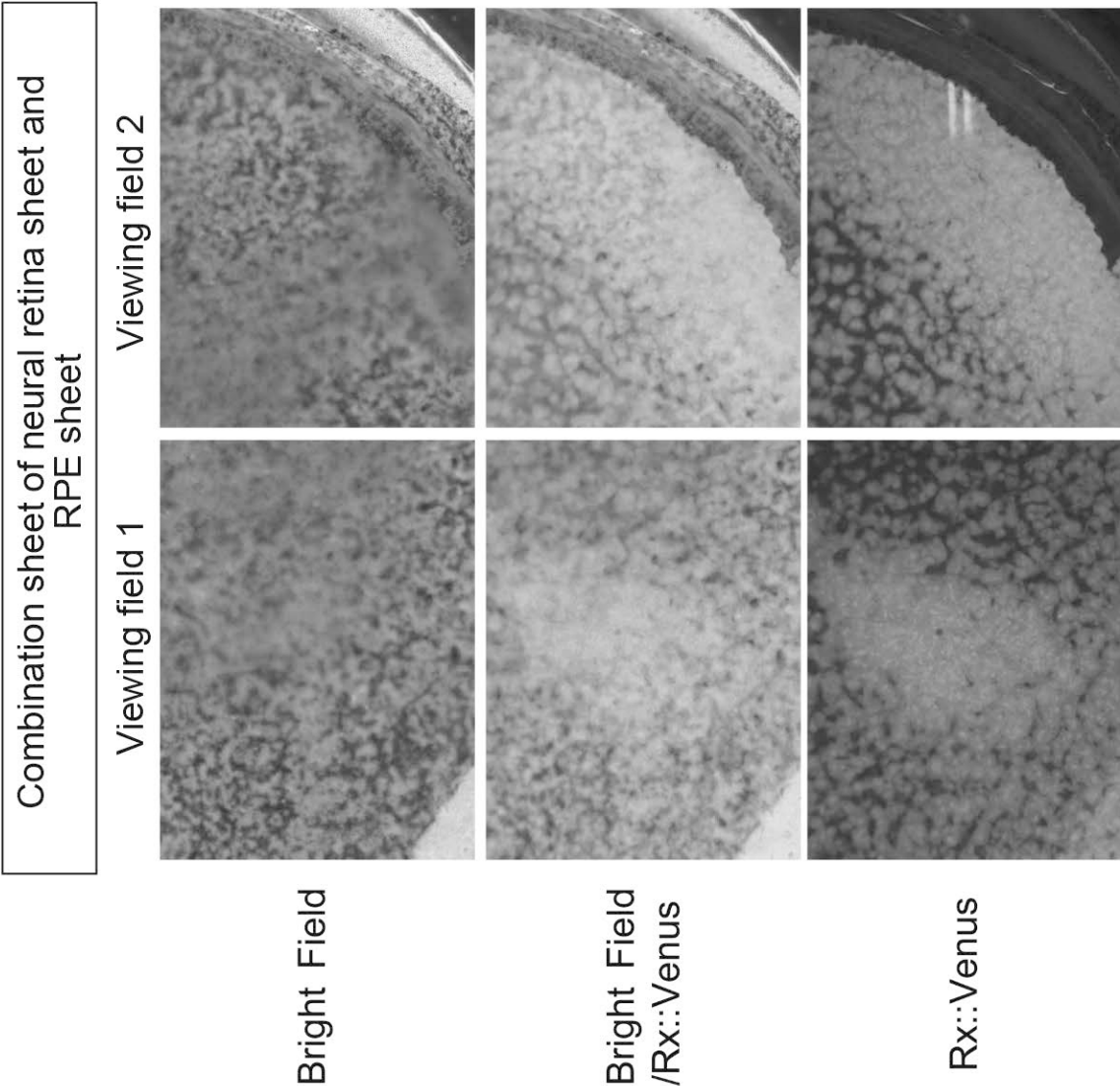
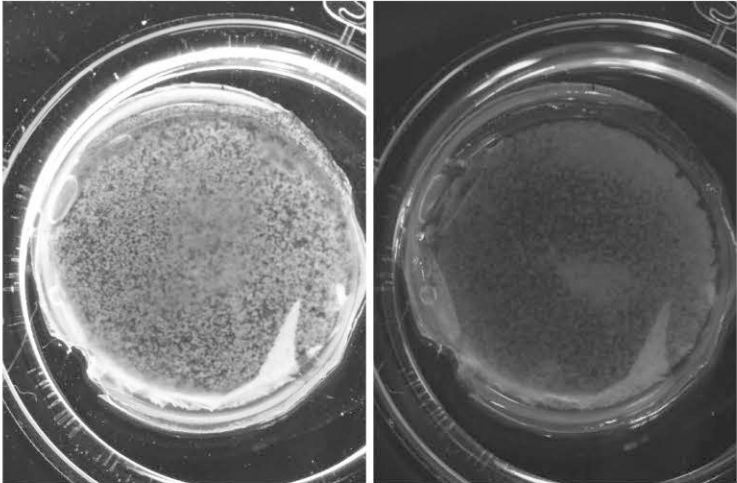


Fig.107

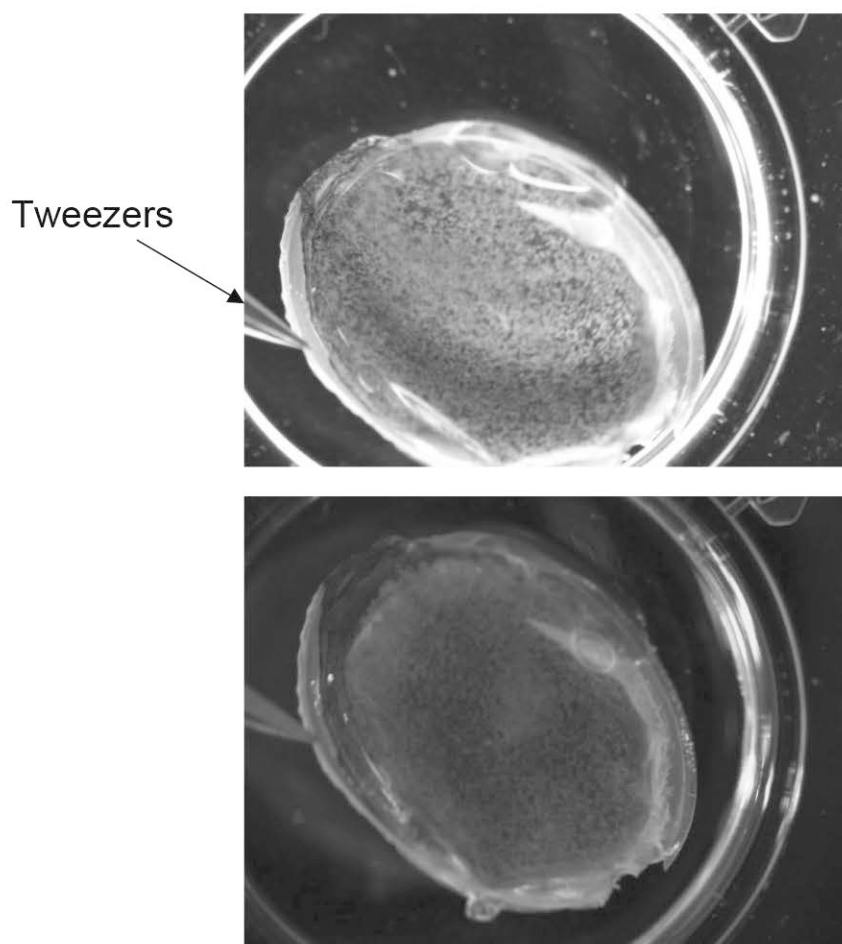


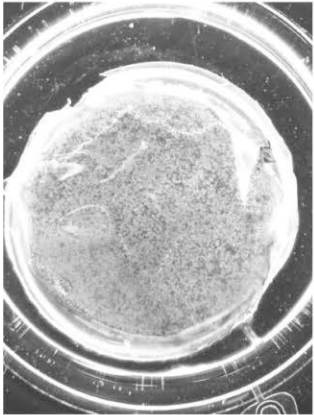
Fig.108

Reversed

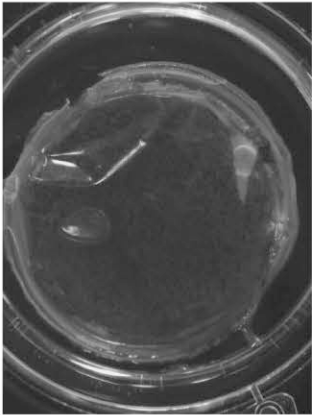
Combination sheet of
neural retina located
in lower part and
RPE located in
upper part

Combination sheet of neural retina sheet and RPE sheet

Viewing field 1 Viewing field 2 Viewing field 3



Bright Field



Rx::Venus

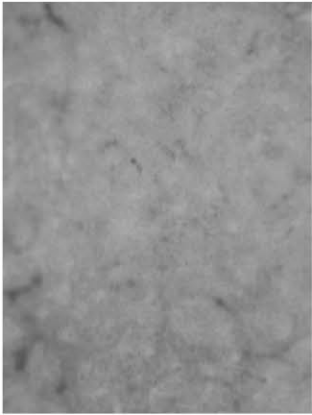
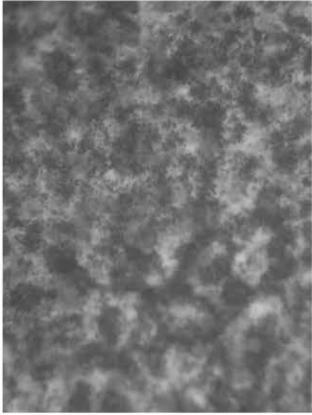
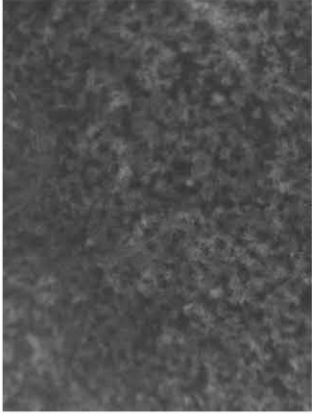
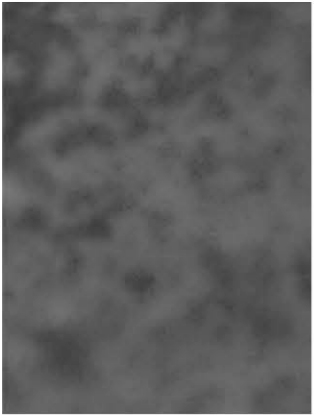
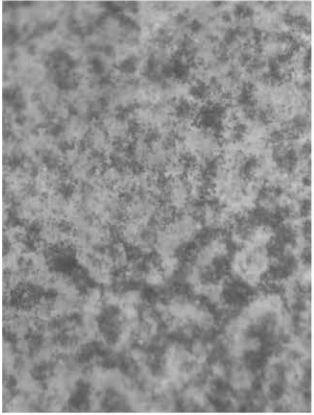
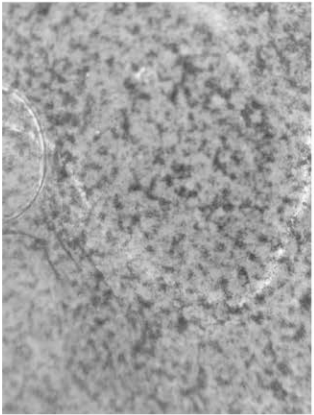


Fig.109

Detach mesh from RPE

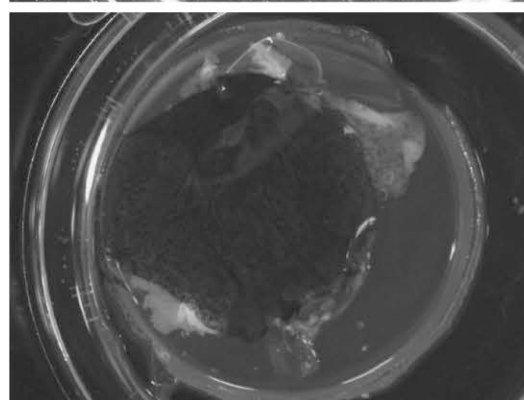
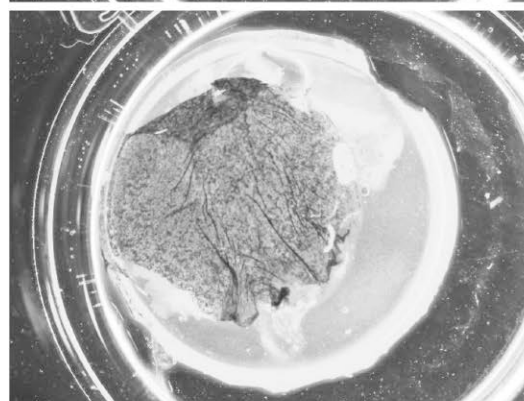
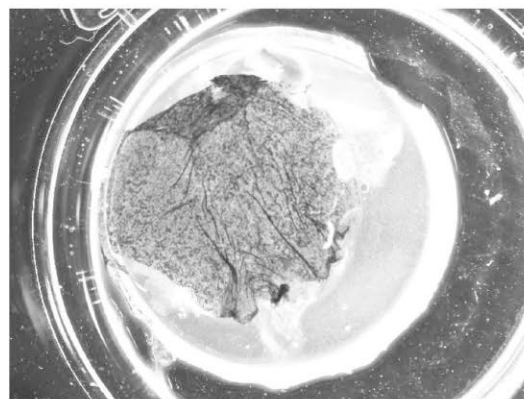


Fig.110

Study on ejection of gelatin using only CellShifter (sandwich between glass slides)

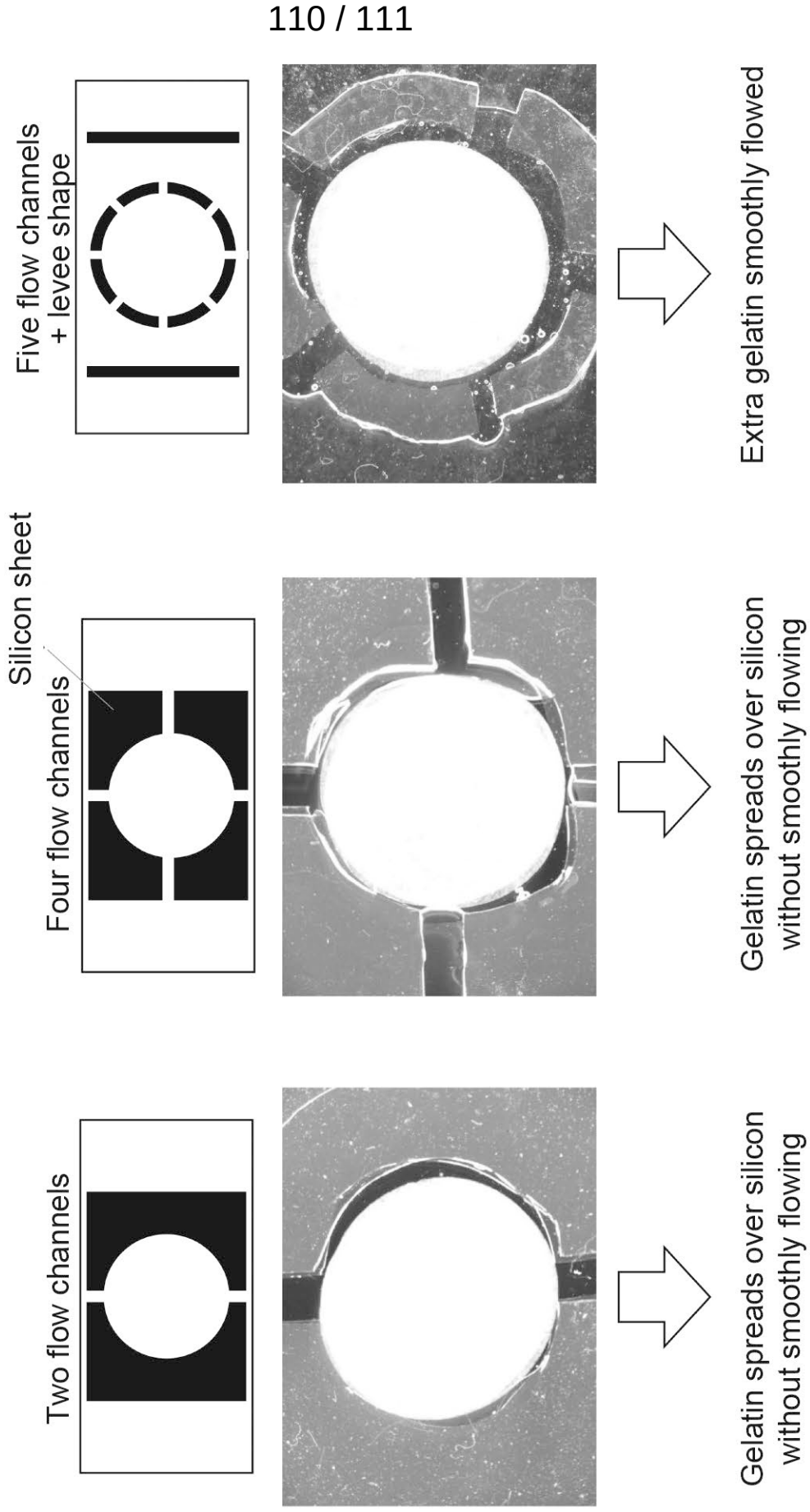


Fig.111

