Fig.1

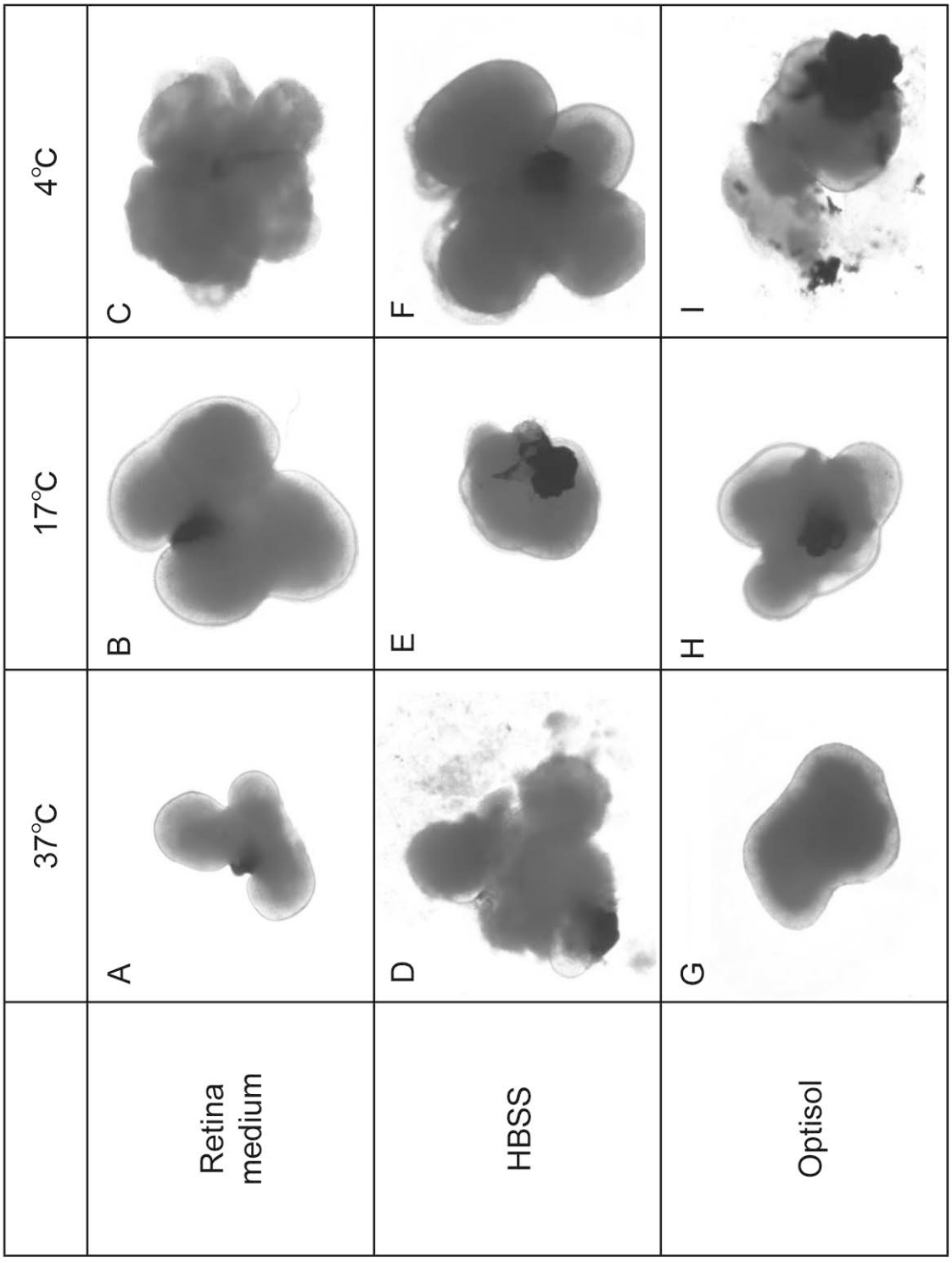


Fig.2

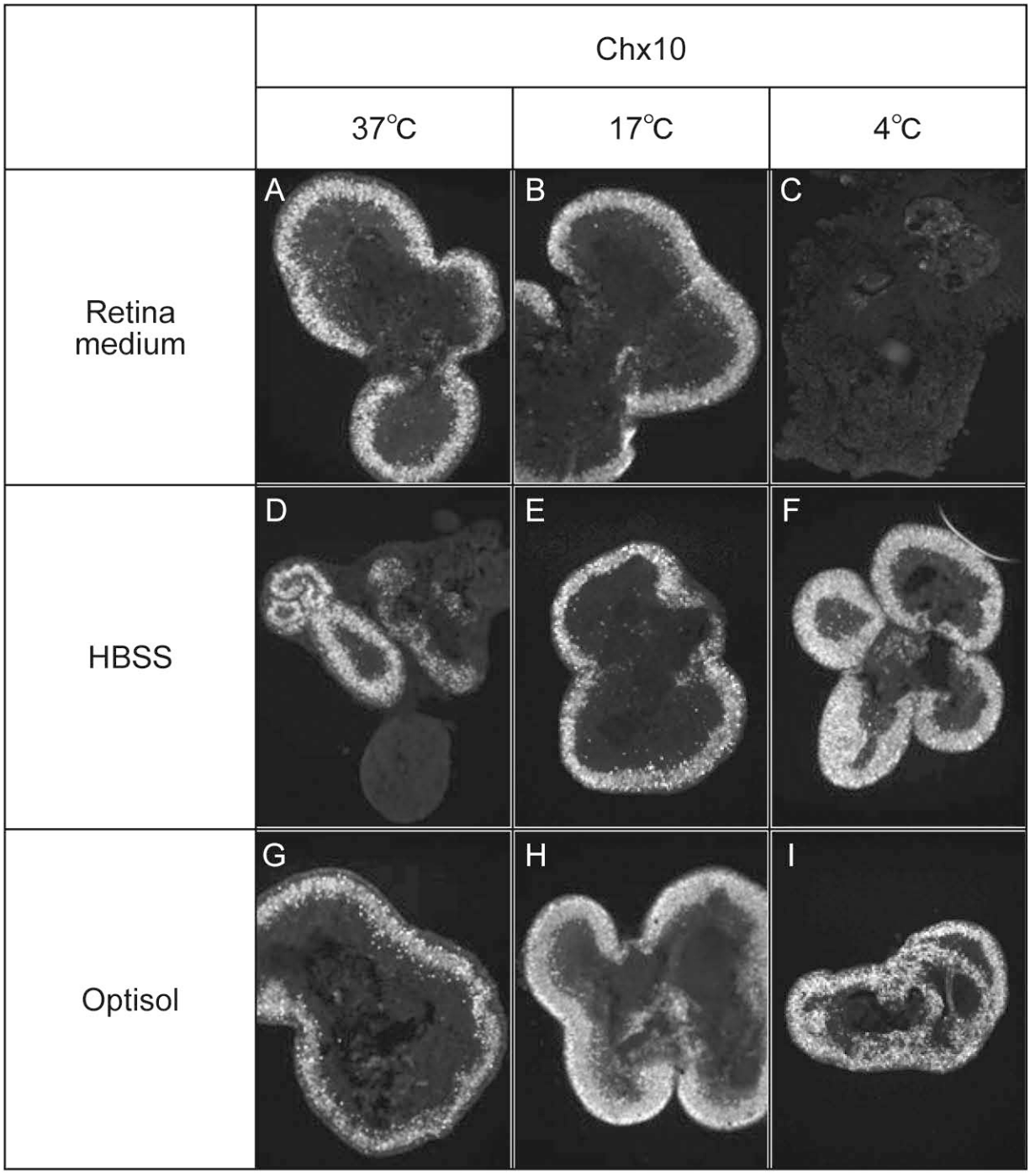


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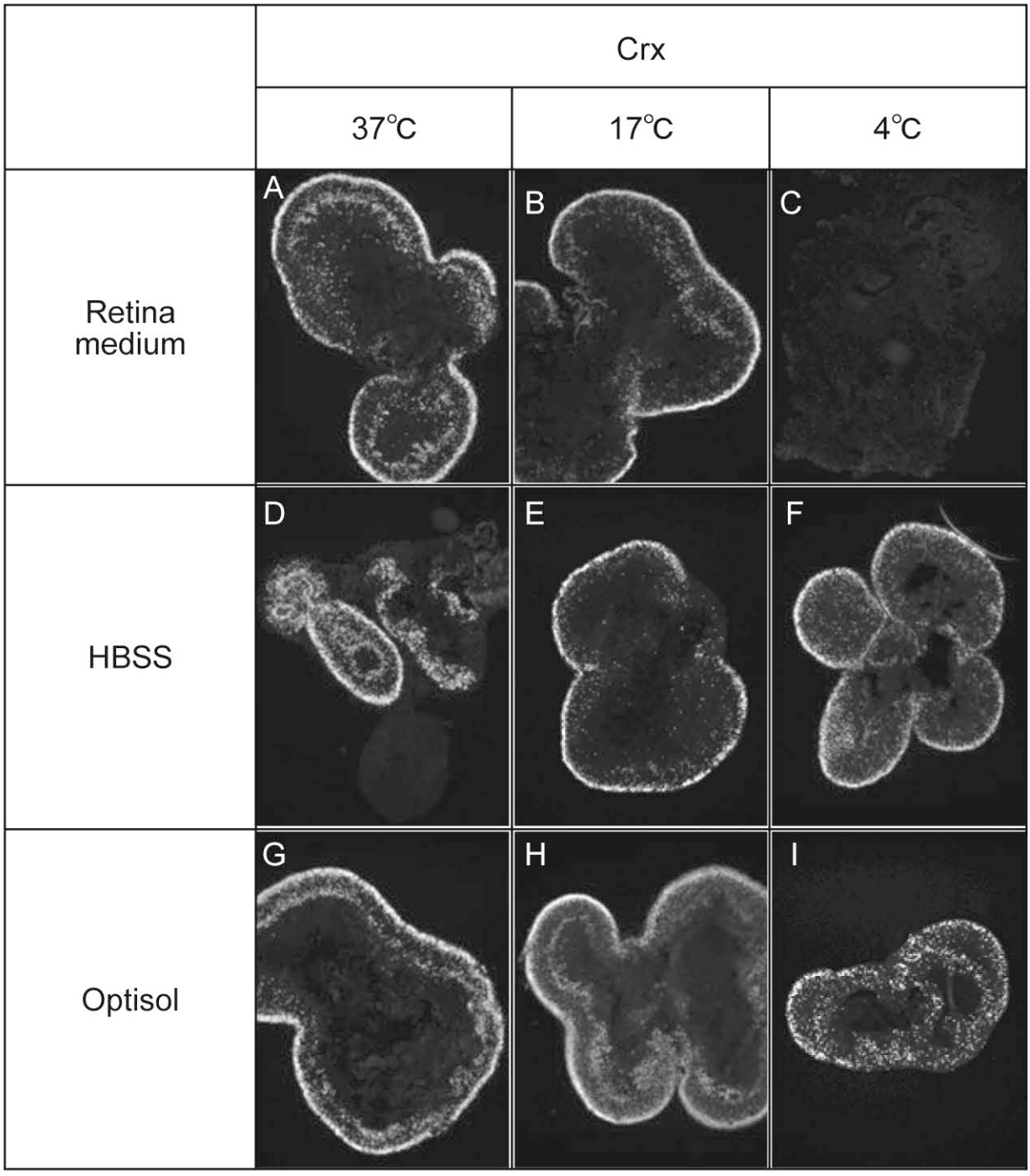


Fig.4

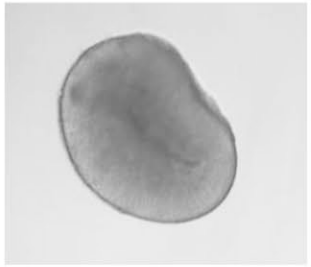
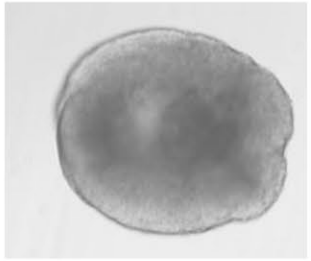
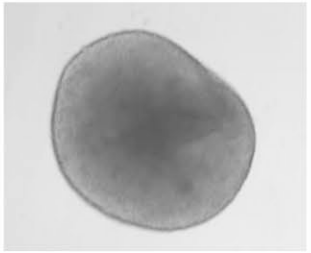
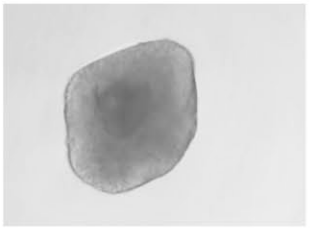
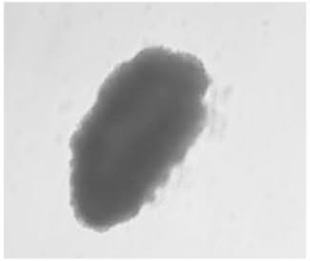
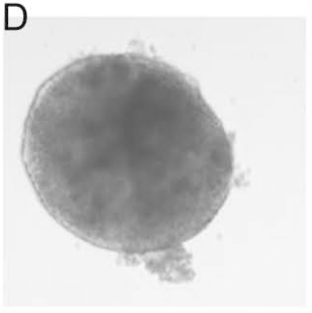
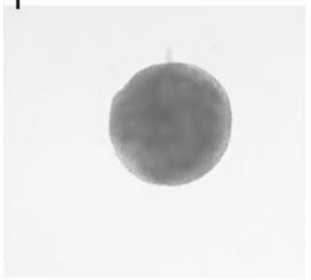
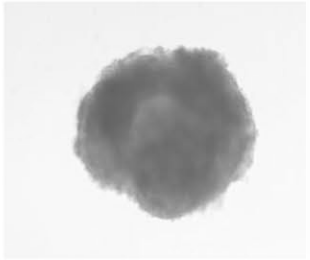
	Medium B	HBSS	Optisol	UW
37°C	A 			
17°C	B 	C 	E 	G 
4°C		D 	F 	H 

Fig.5

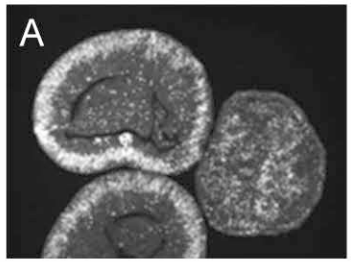
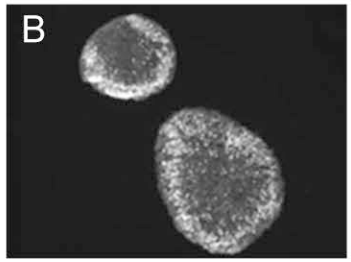
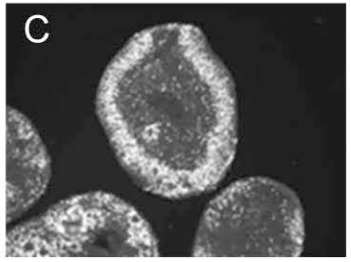
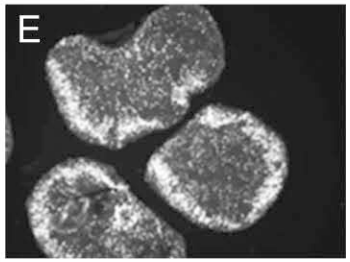
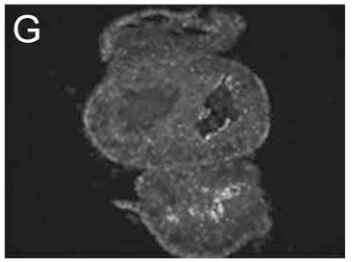
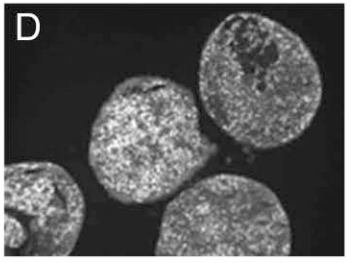
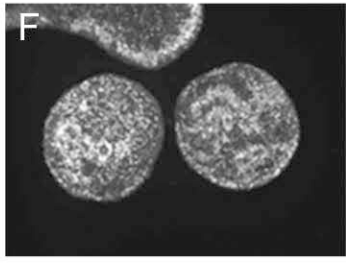
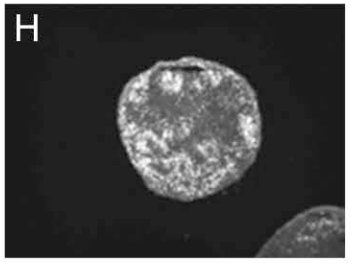
	Chx10			
	Medium B	HBSS	Optisol	UW
37℃				
17℃				
4℃				

Fig.6

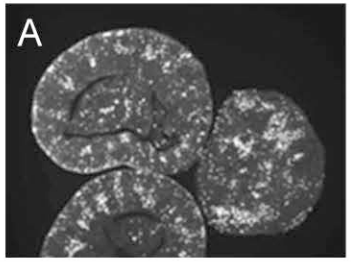
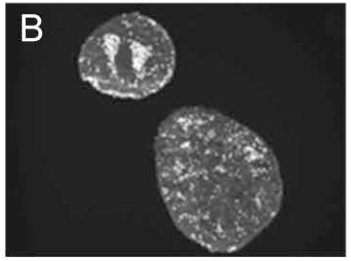
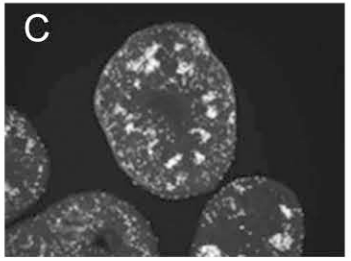
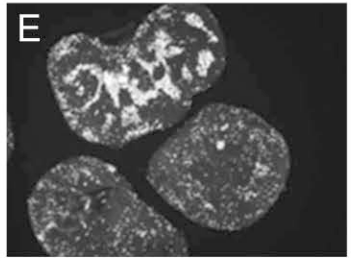
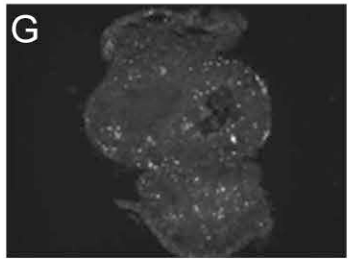
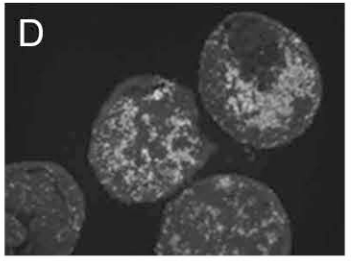
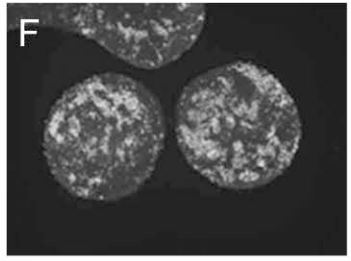
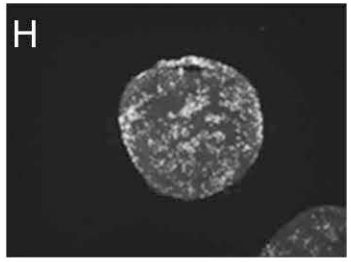
	Crx			
	Medium B	HBSS	Optisol	UW
37℃				
17℃				
4℃				

Fig.7

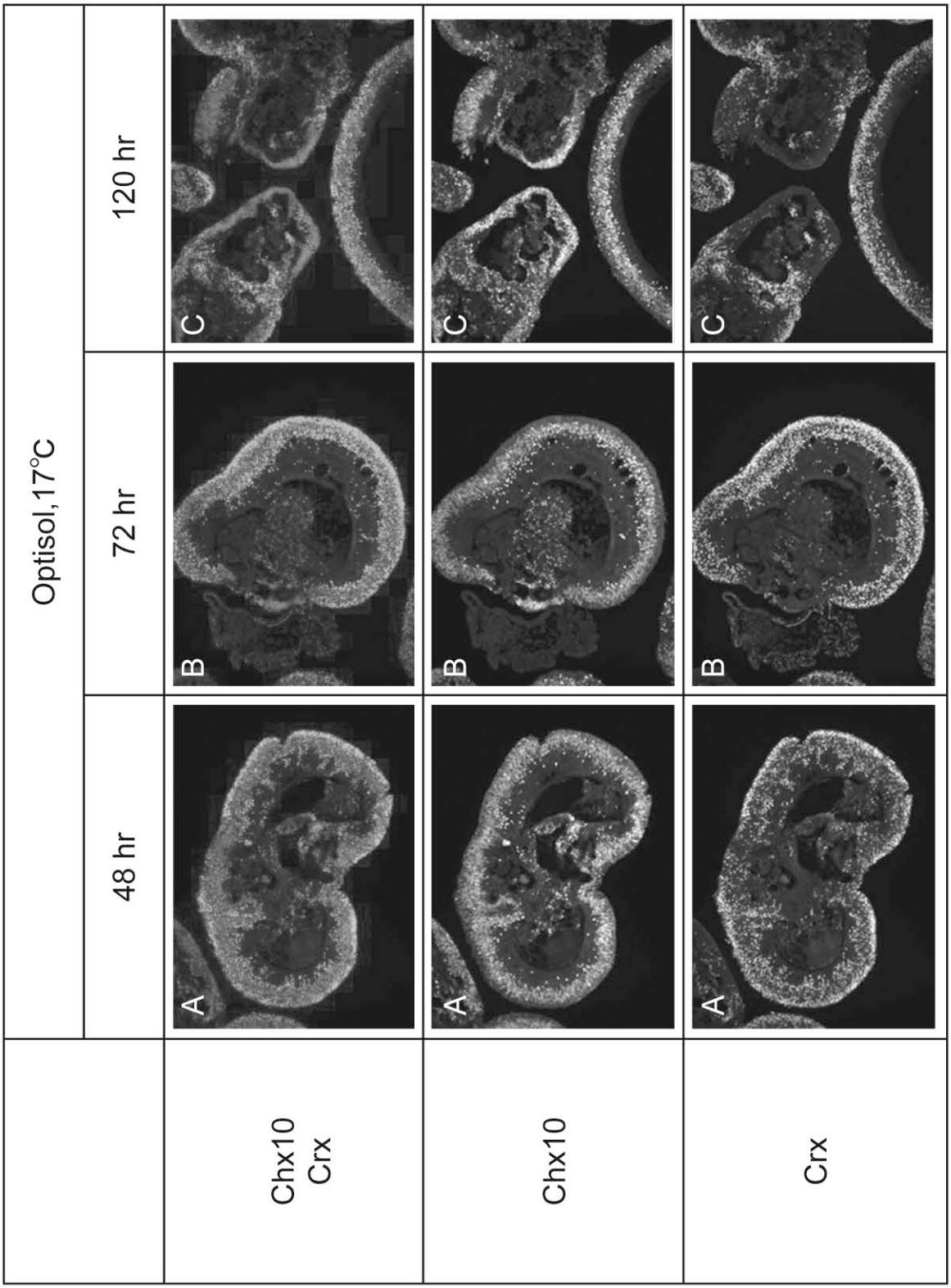


Fig.8

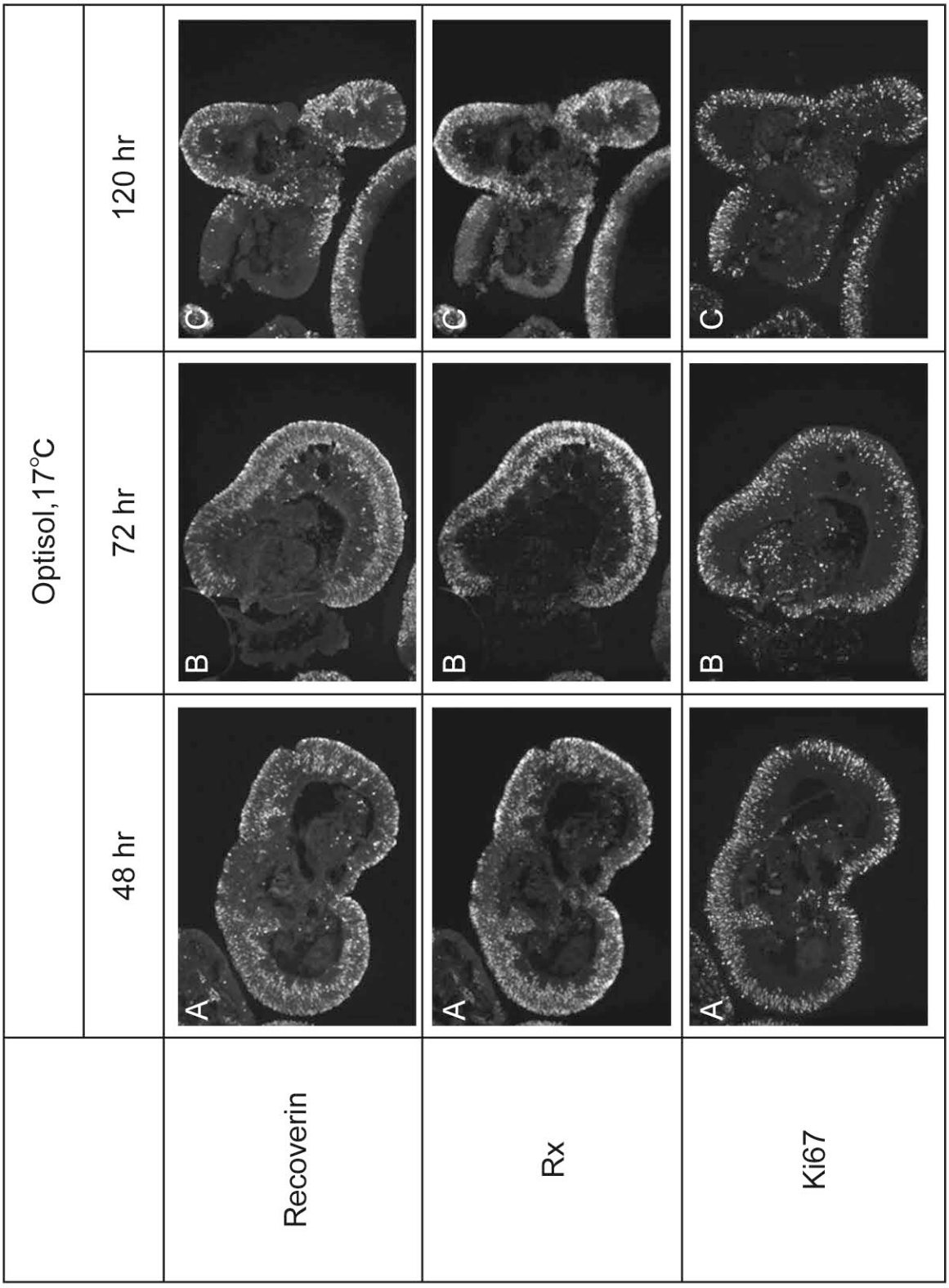


Fig.9

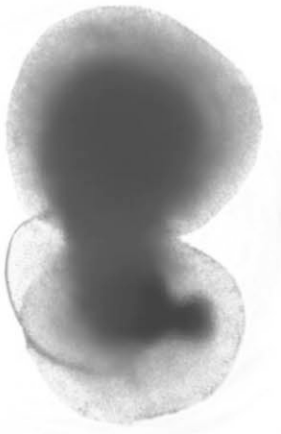
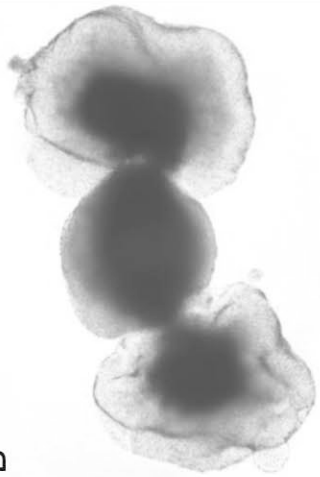
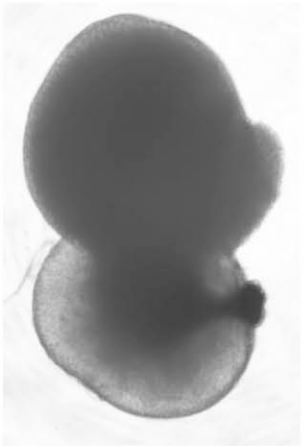
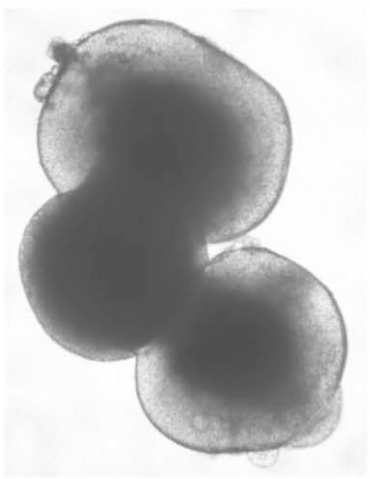
	5% CO_2	Atmosphere CO_2
Immediately after completion of preservation (bright field)	A 	B 
After recovery culture (bright field)		

Fig.10

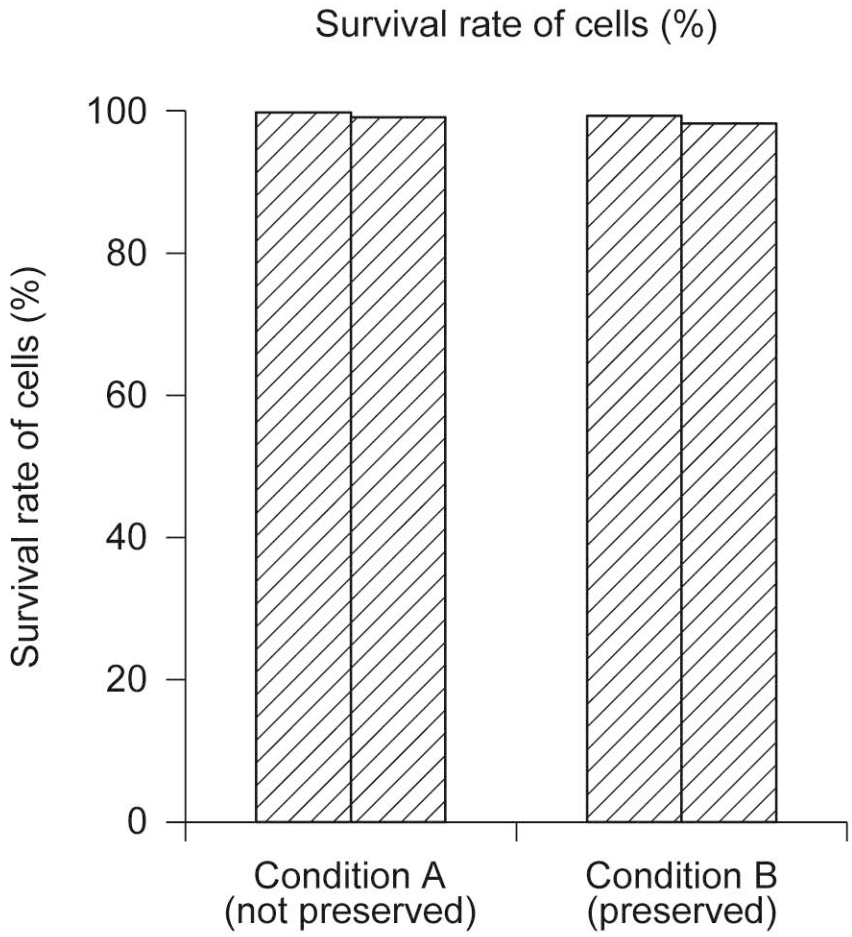

Survival rate of cells (%)
Survival rate of cells (%)
100
80
60
40
20
0
Condition A
(not preserved)
Condition B
(preserved)

Fig.11

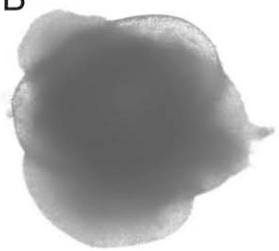
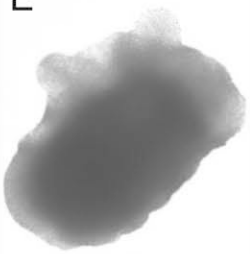
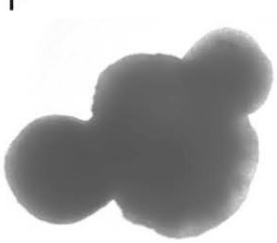
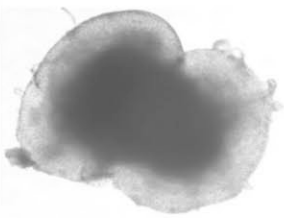
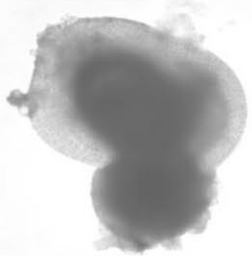
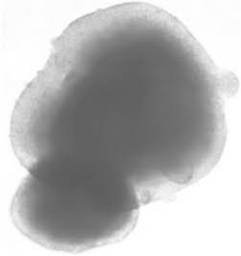
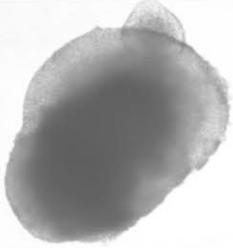
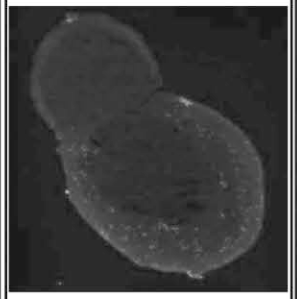
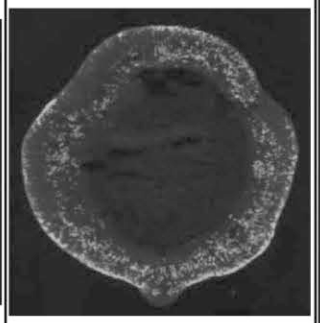
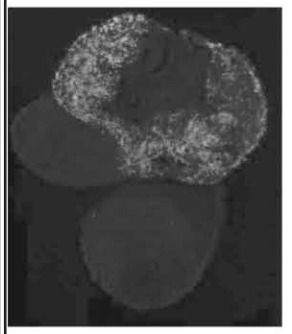
	4℃	8℃	17℃	30℃	37℃
Immediately after completion of preservation (bright field)	B 	C 	D 	E 	F 
After recovery culture (bright field)					
After recovery culture (Crx)					

Fig.12

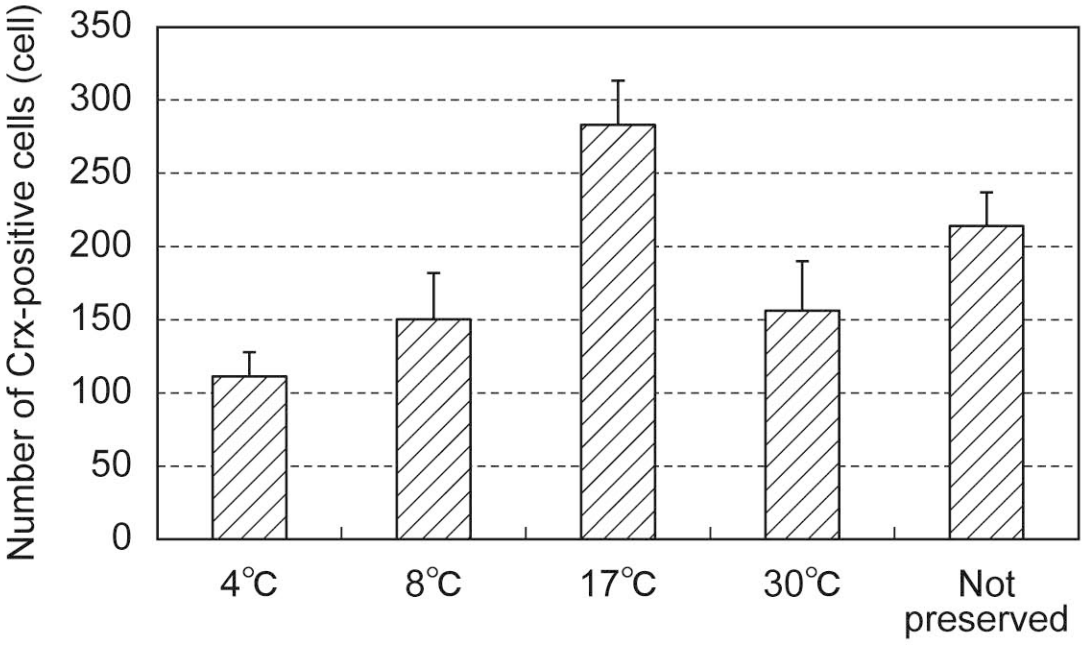

Number of Crx-positive cells (cell)
350
300
250
200
150
100
50
0
4℃
8℃
17℃
30℃
Not preserved

Fig.13

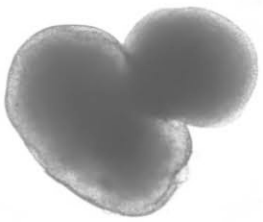
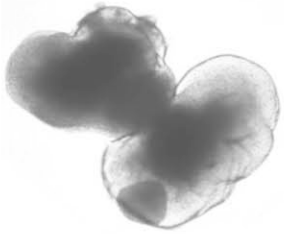
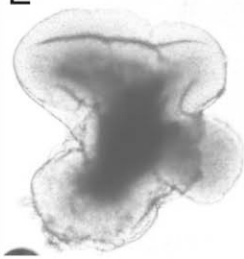
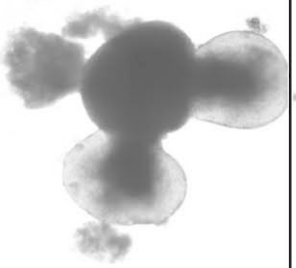
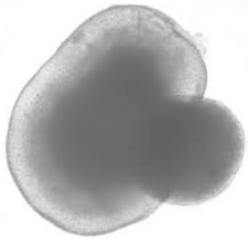
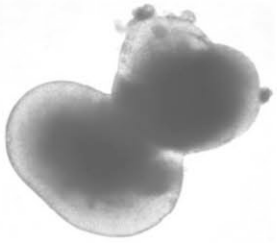
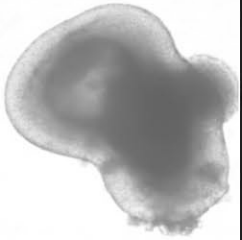
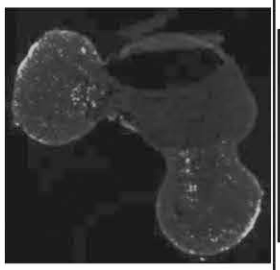
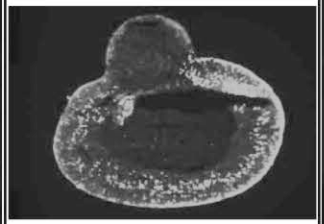
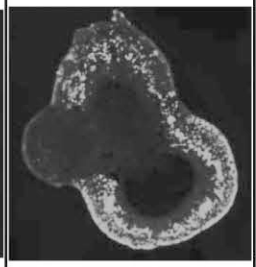
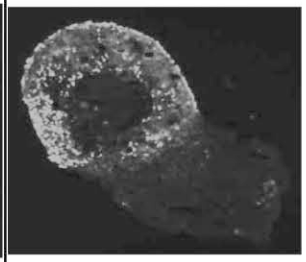
	4℃	12℃	17℃	22℃	37℃
Immediately after completion of preservation (bright field)	B 	C 	D 	E 	F 
After recovery culture (bright field)					
After recovery culture (Crx)					

Fig.14

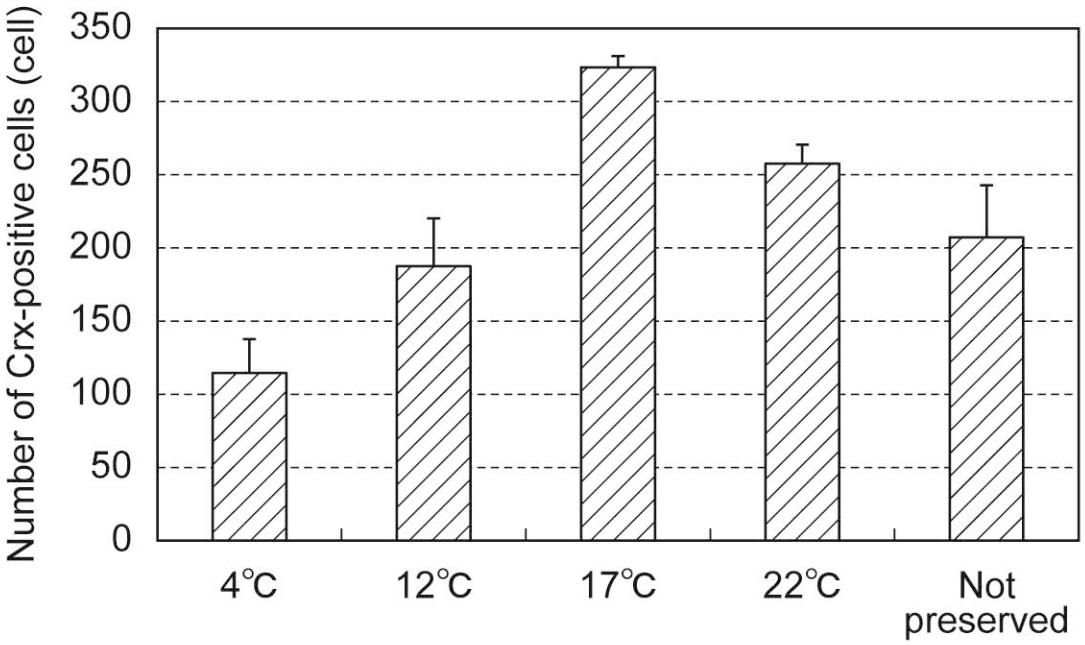

Number of Crx-positive cells (cell)
350
300
250
200
150
100
50
0
4°C
12°C
17°C
22°C
Not preserved

Fig.15

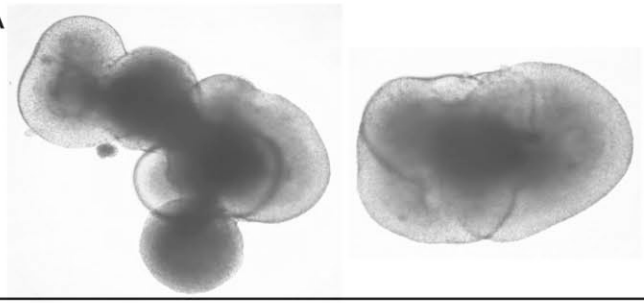
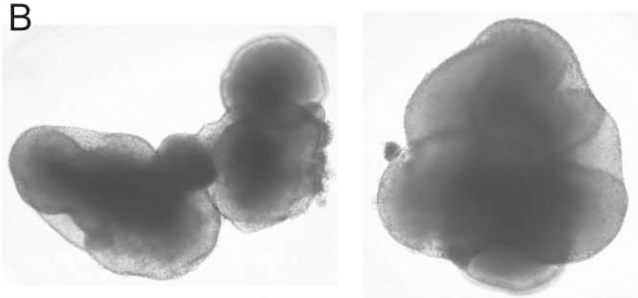
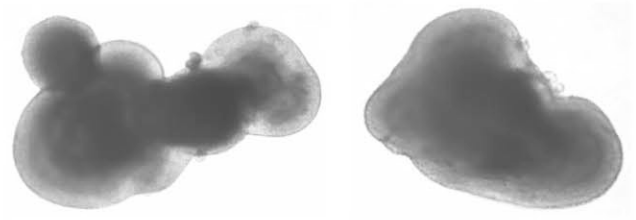
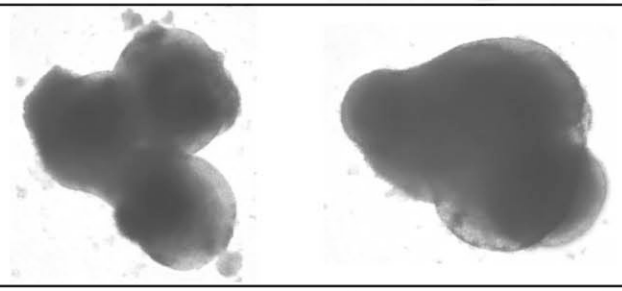
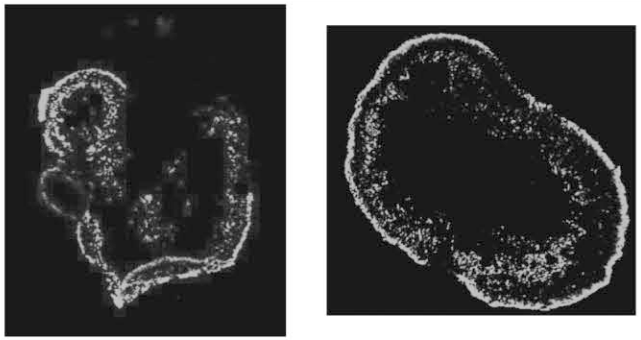
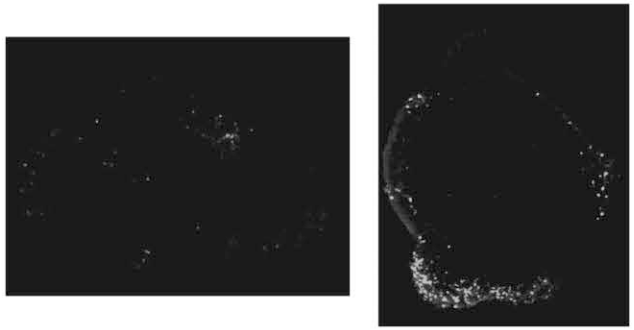
	Optisol	
	Control	High potassium ion
Immediately after completion of preservation (bright field)	A 	B 
After recovery culture (bright field)		
After recovery culture (Crx)		

Fig.16

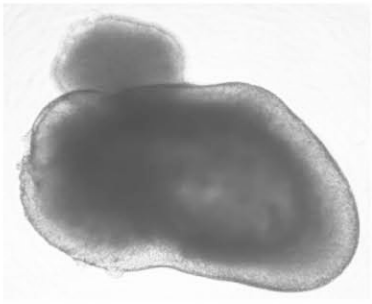
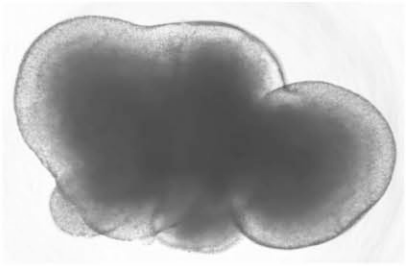
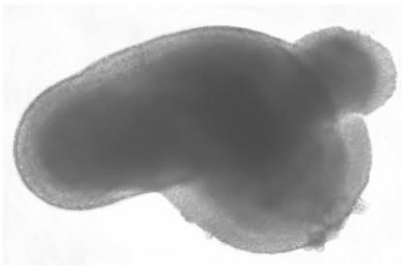
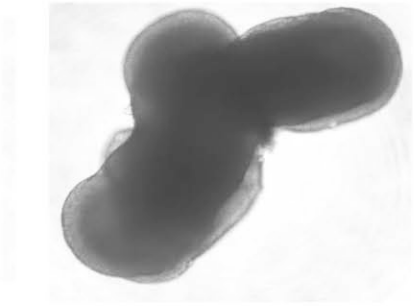
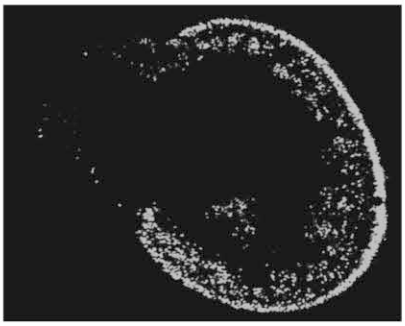
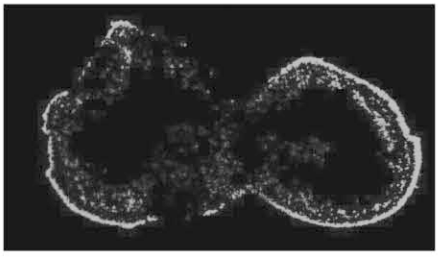
	DMEM	
	−Pyruvate	+Pyruvate
Immediately after completion of preservation (bright field)	A 	B 
After recovery culture (bright field)		
After recovery culture (Crx)		

Fig.17

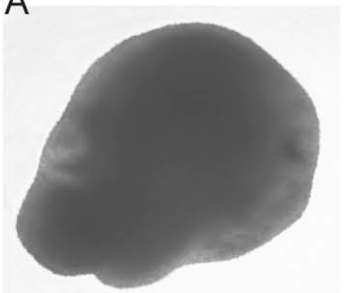
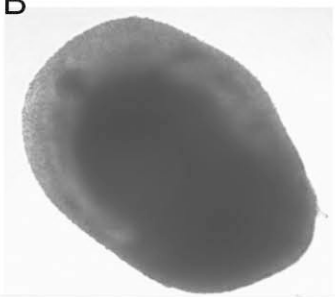
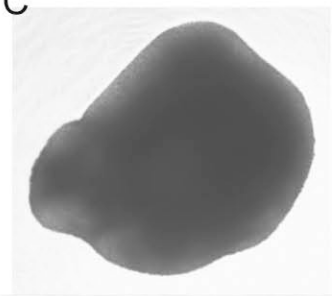
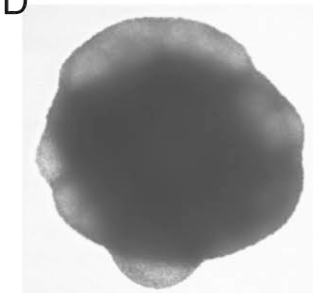
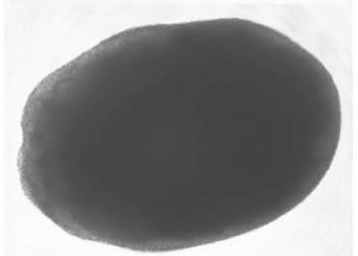
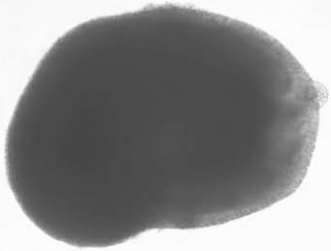
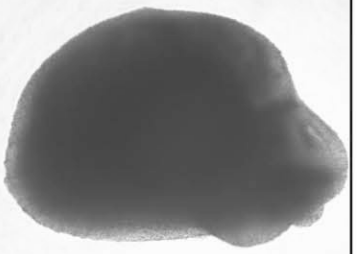
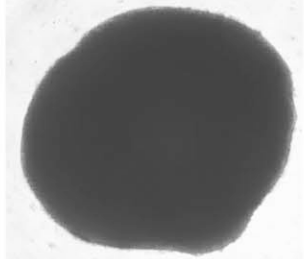
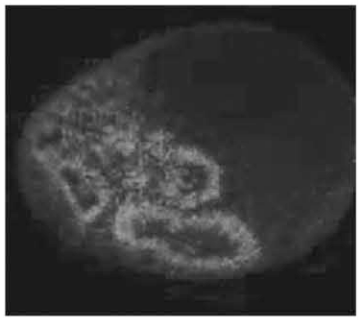
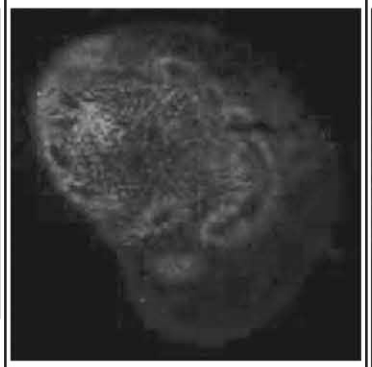
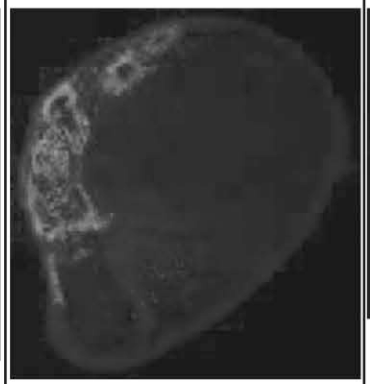
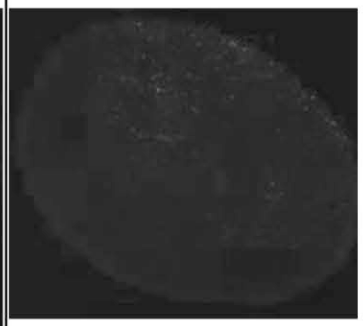
	Control (not preserved)	Optisol	HBSS	UW
Immediately after completion of preservation (bright field)	A 	B 	C 	D 
After recovery culture (bright field)				
After recovery culture (Rx/Otx2)				

Fig.18

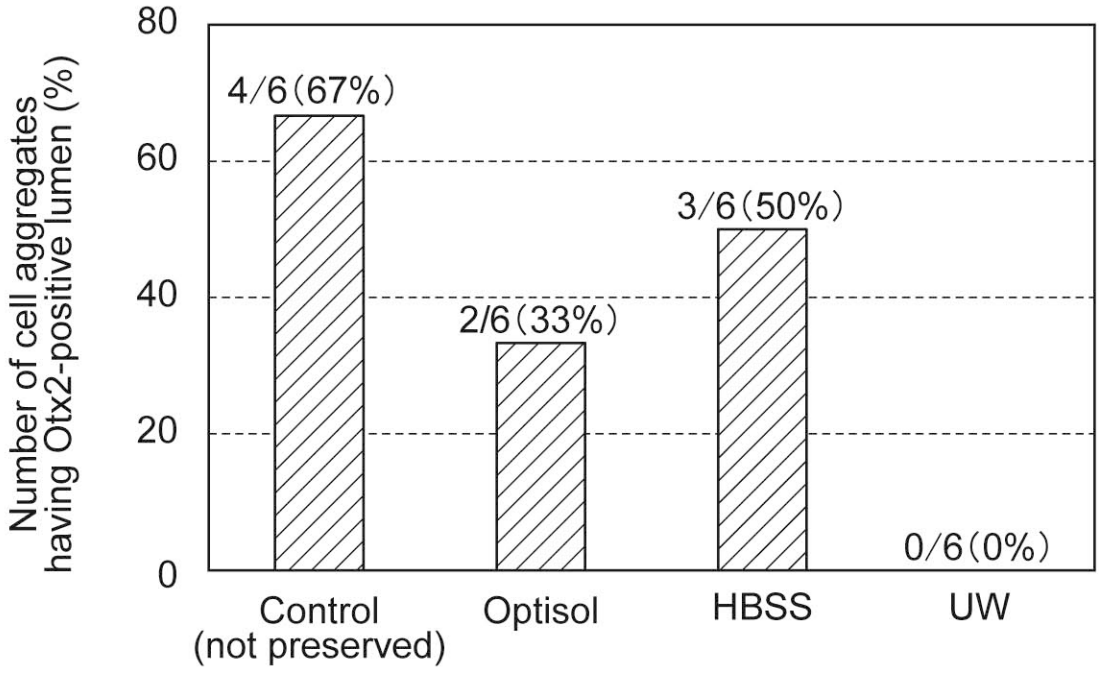

Number of cell aggregates having Otx2-positive lumen (%)
80
60
40
20
0
4/6(67%)
2/6(33%)
3/6(50%)
0/6(0%)
Control (not preserved)
Optisol
HBSS
UW

Fig.19

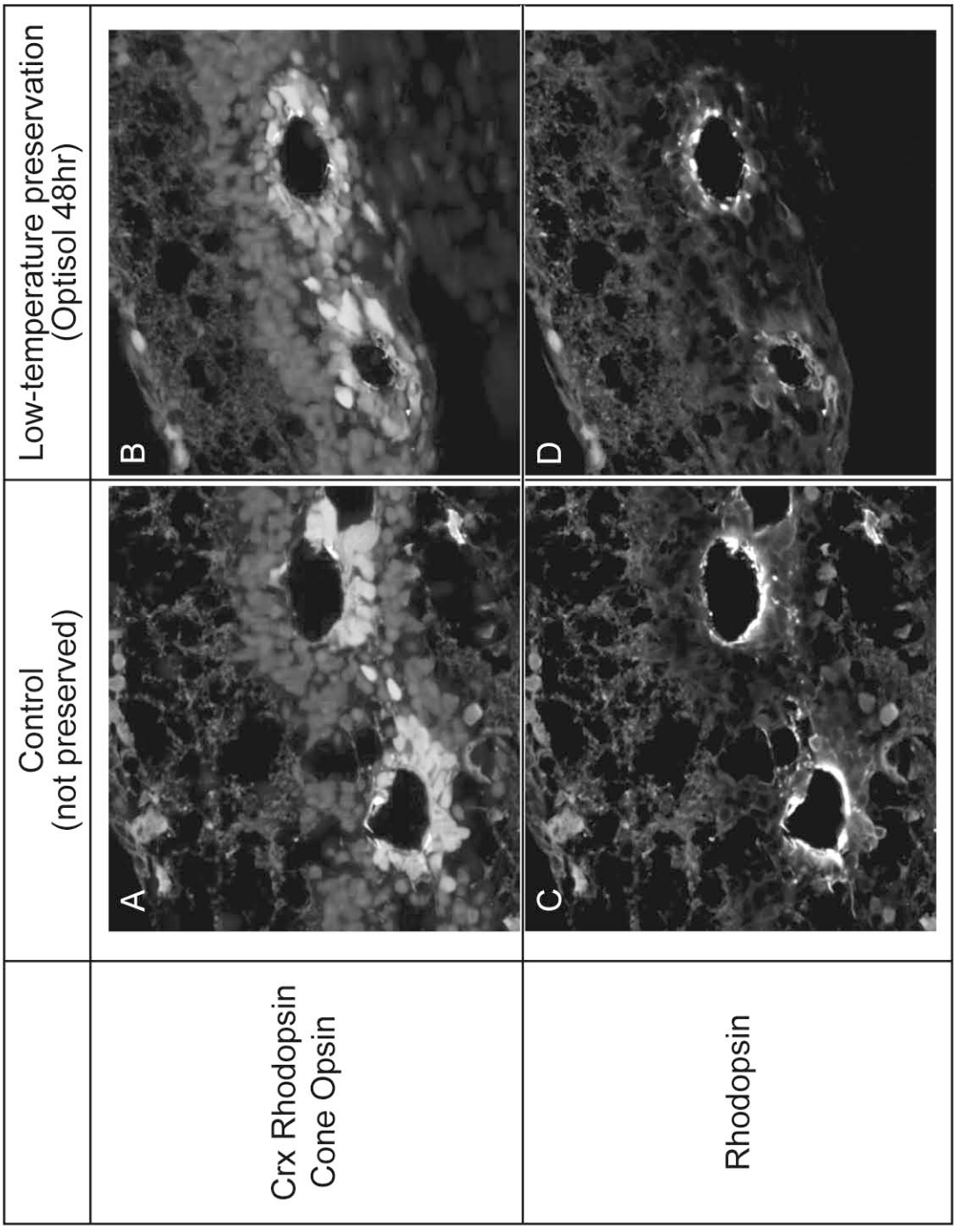

Control
(not preserved)
Low-temperature preservation
(Optisol 48hr)
Crx Rhodopsin
Cone Opsin
Rhodopsin
A
B
C
D

Fig.20

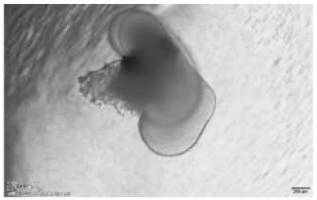
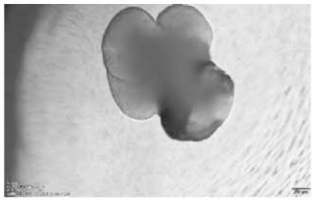
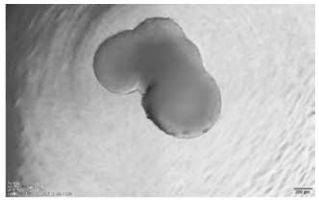
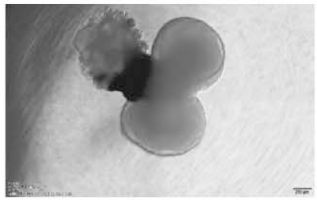
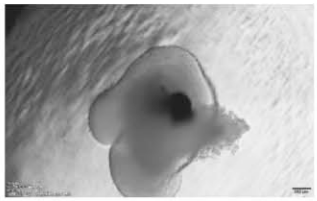
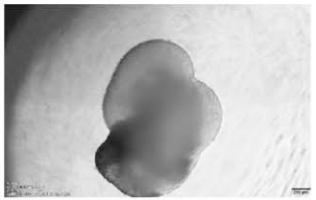
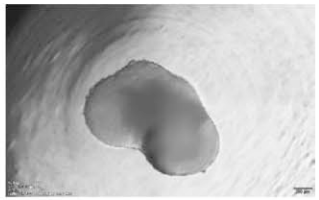
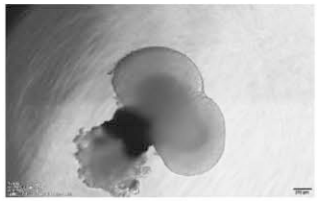
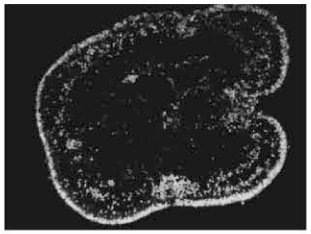
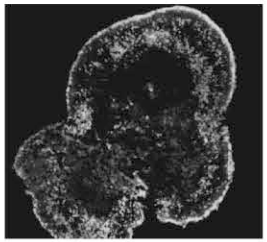
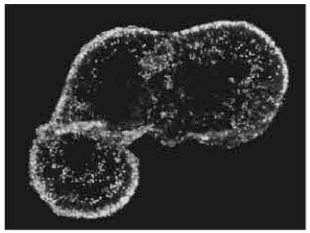
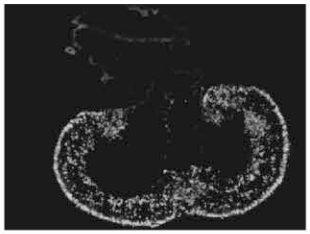
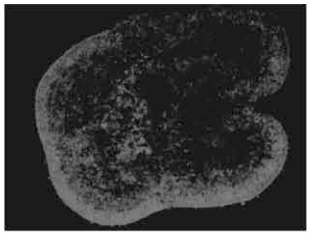
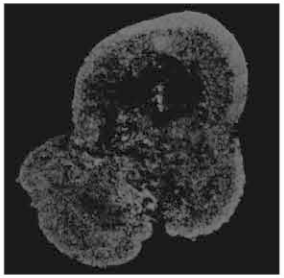
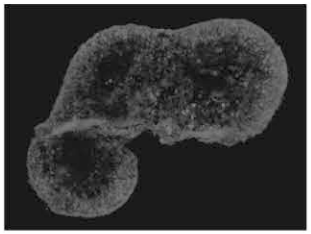
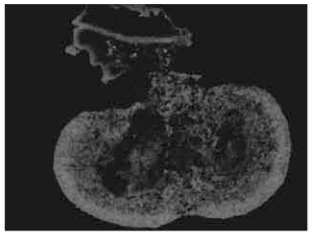
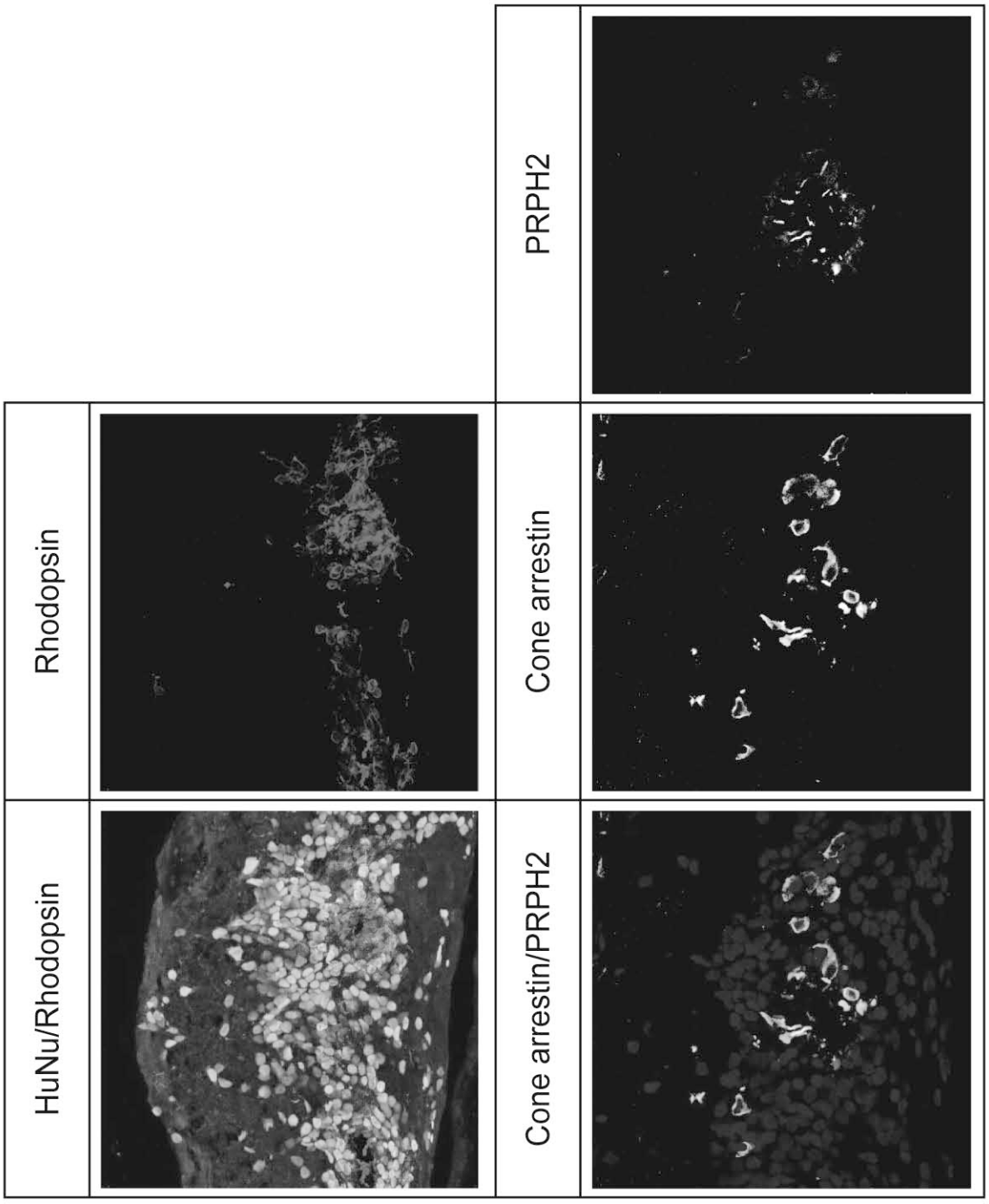
	Medium B	Optisol	1% chondroitin sulfate-containing medium	0.5% chondroitin sulfate-containing medium
Immediately after completion of preservation (bright field)	A 	B 	C 	D 
After recovery culture (bright field)				
After recovery culture (Crx)				
After recovery culture (Chx10)				

Fig.21


HuNu/Rhodopsin
Rhodopsin
Cone arrestin/PRPH2
Cone arrestin
PRPH2