

LUMC0196iOAT

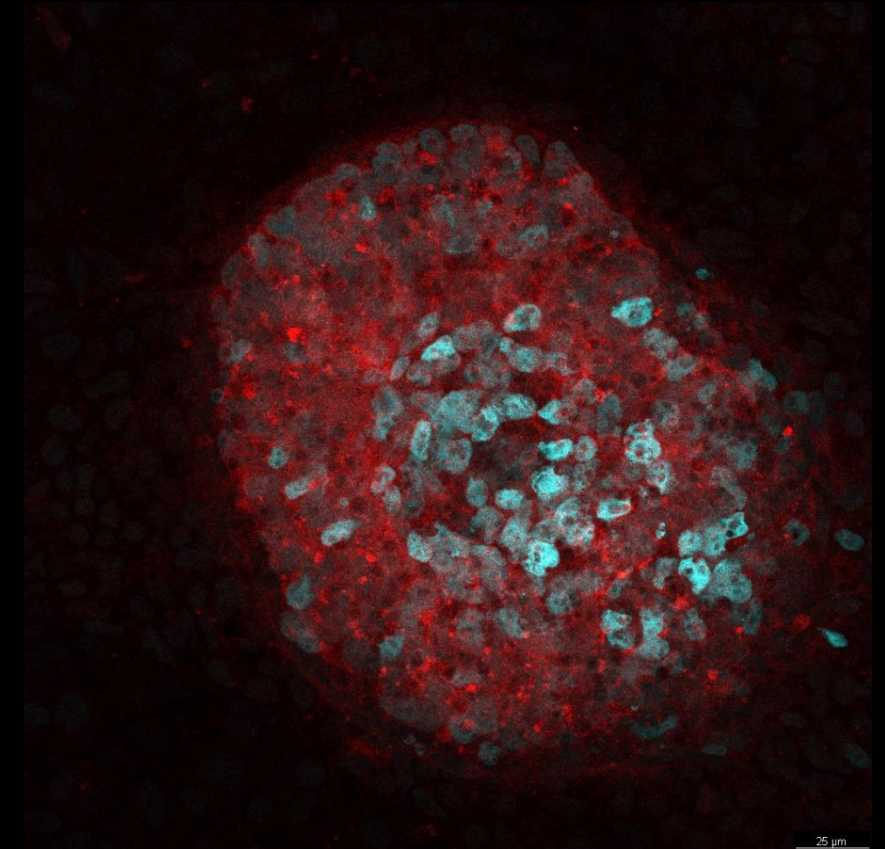
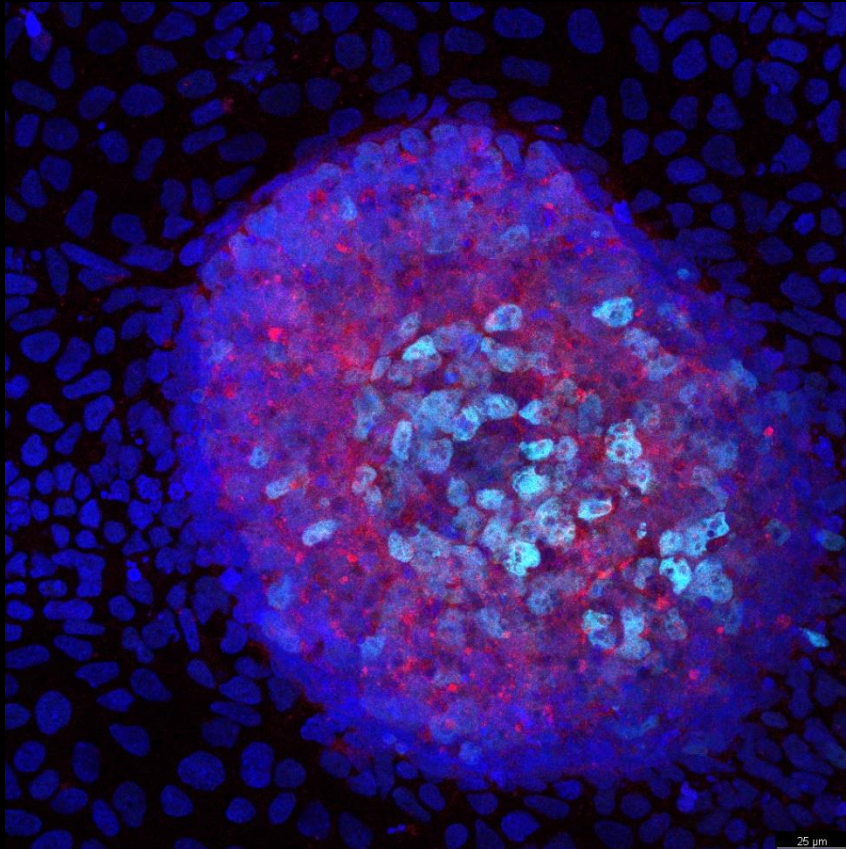
Differentiation staining(at p4) and
Pluripotency FACS(at p5)
18-02-2020

LUMC0196iOAT01

Ectoderm

FABP7 PAX6 DAPI

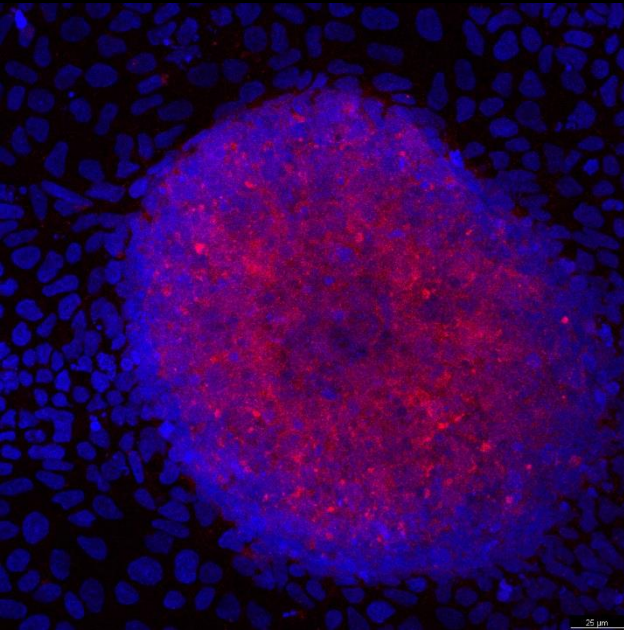
FABP7 PAX6



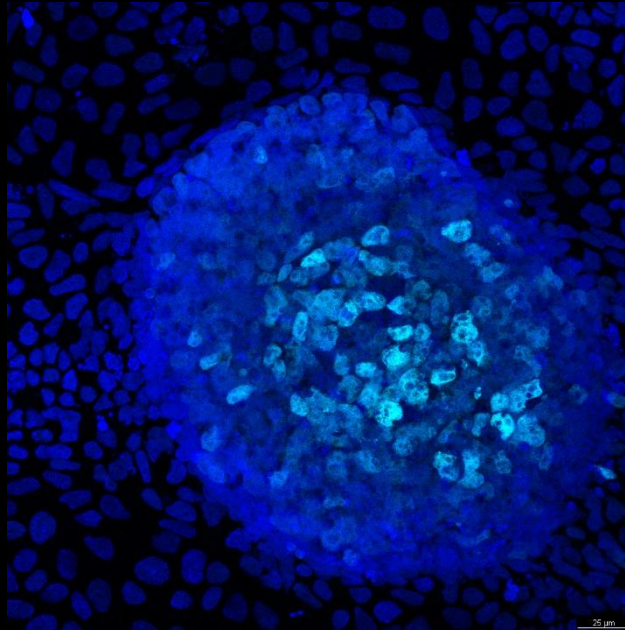
LUMC0196iOAT01

Ectoderm

FABP7 DAPI



PAX6 DAPI

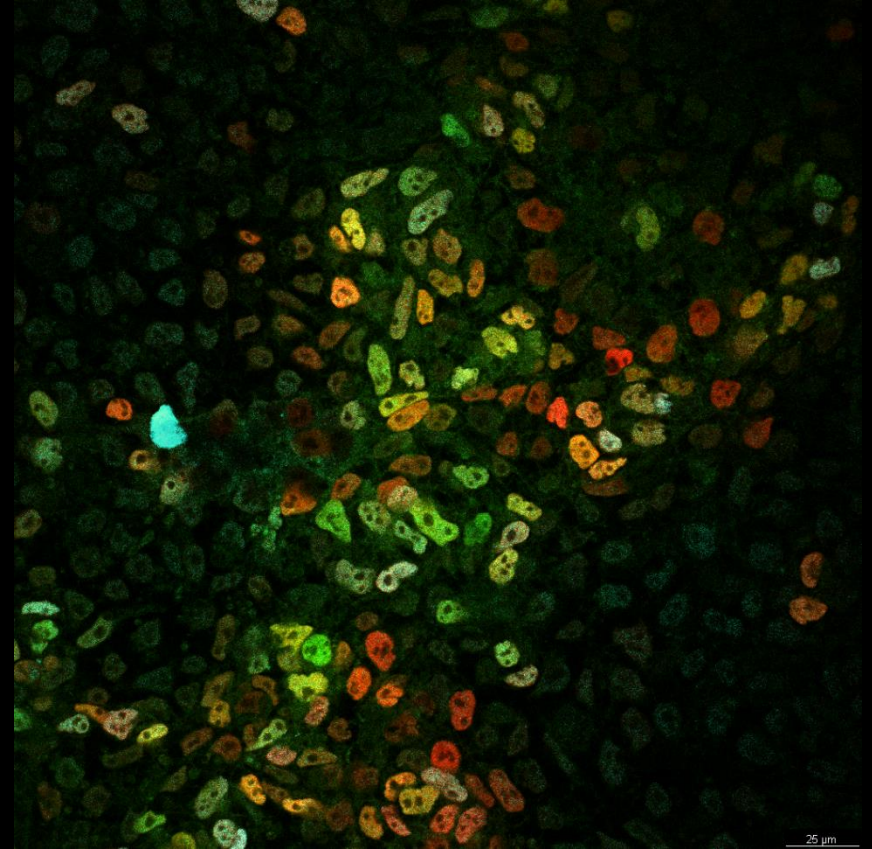
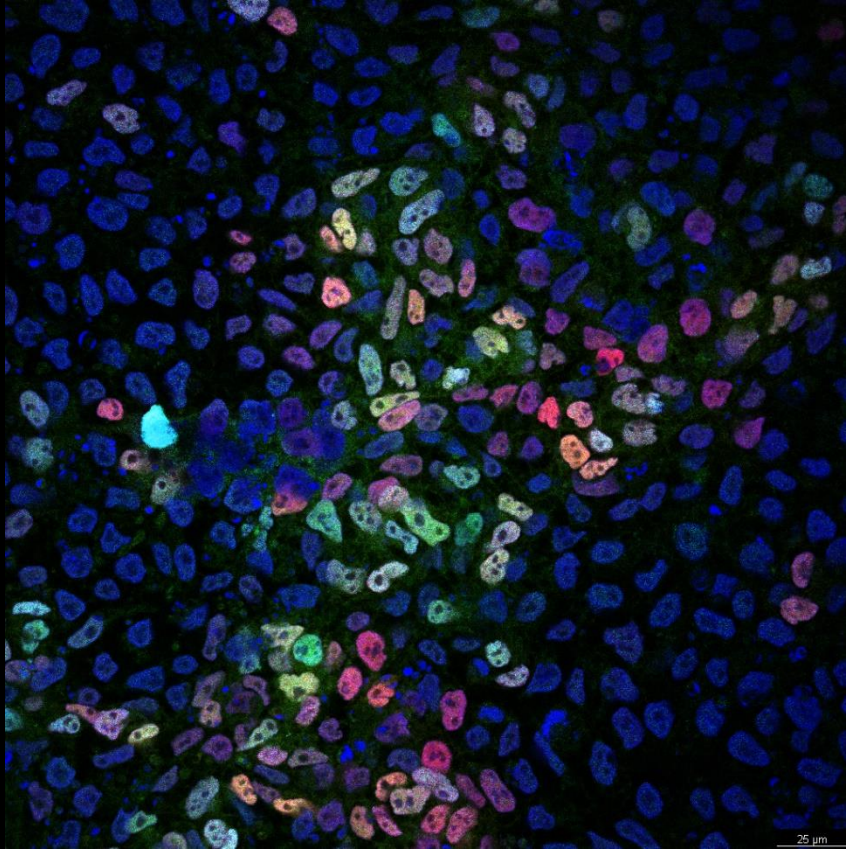


LUMC0196iOAT01

Endoderm

Eomes FOXA2 GATA4 DAPI

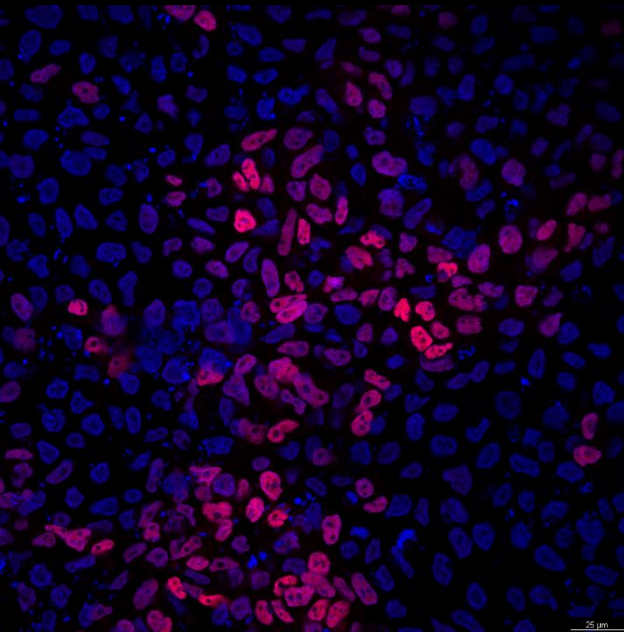
Eomes FOXA2 GATA4



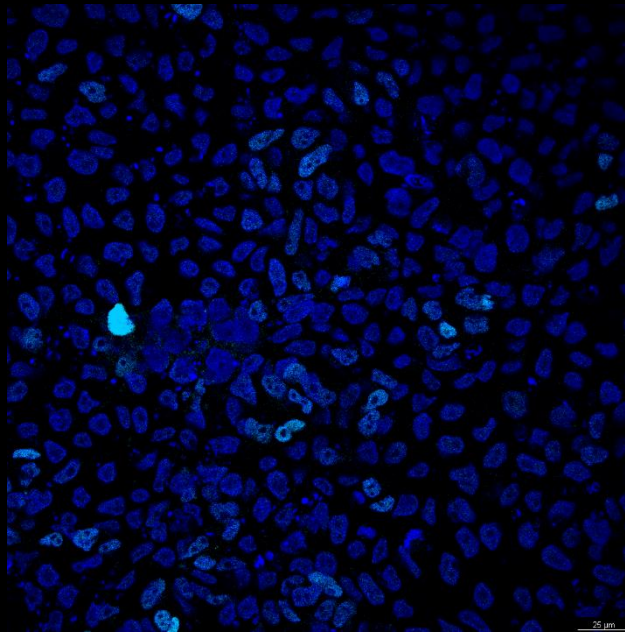
LUMC0196iOAT01

Endoderm

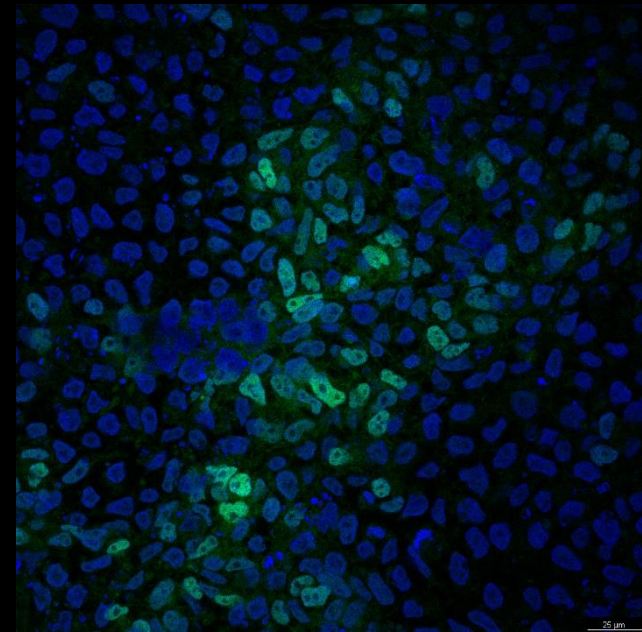
FOXA2 DAPI



GATA4 DAPI



Eomes DAPI

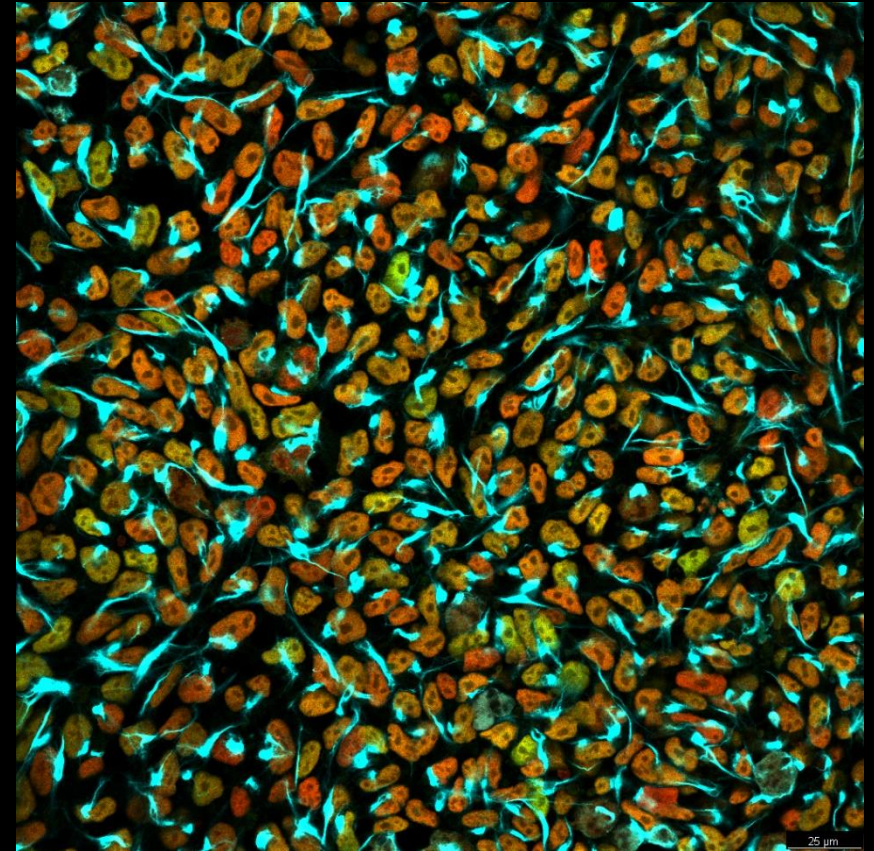
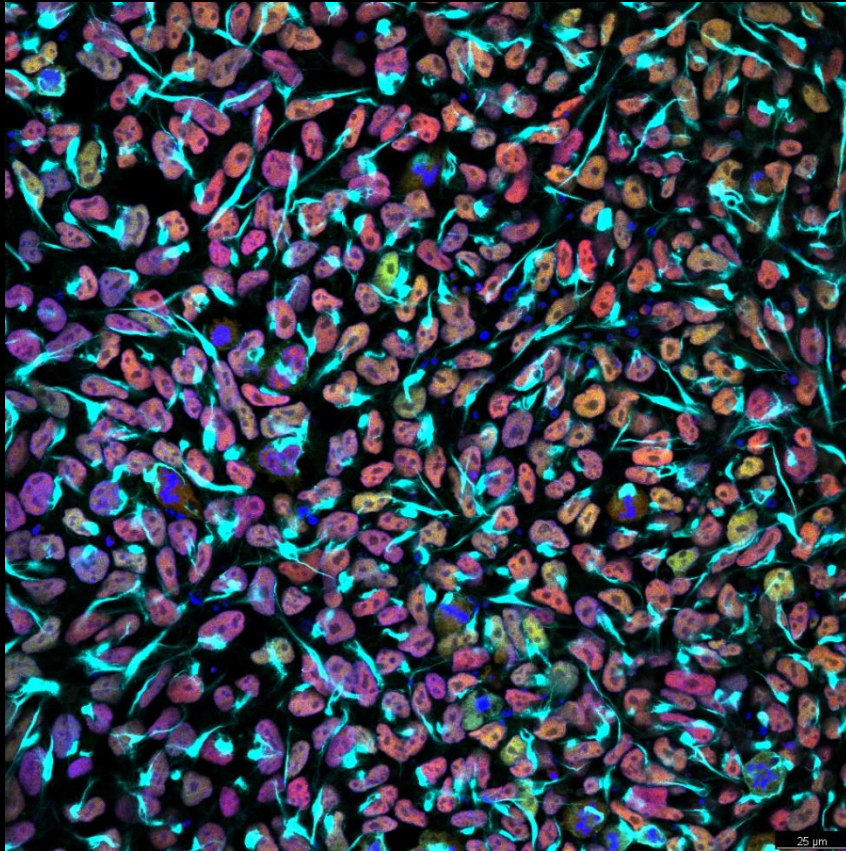


LUMC0196iOAT01

Mesoderm

Brachyury CDX2 Vimentin DAPI

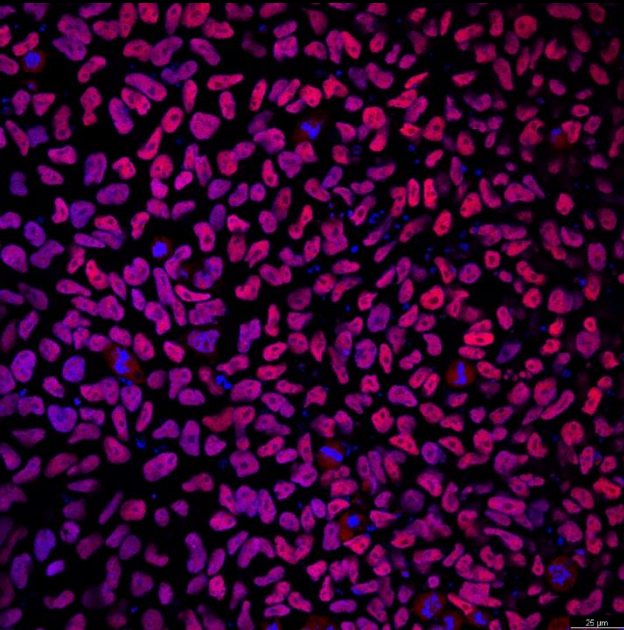
Brachyury CDX2 Vimentin



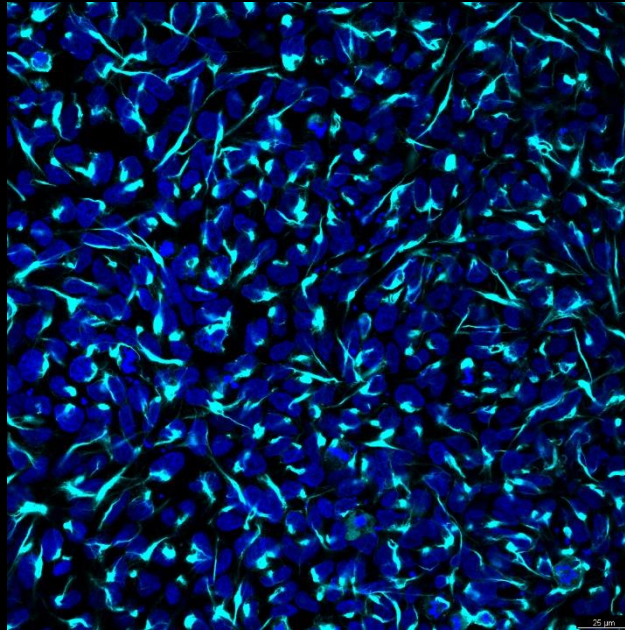
LUMC0196iOAT01

Mesoderm

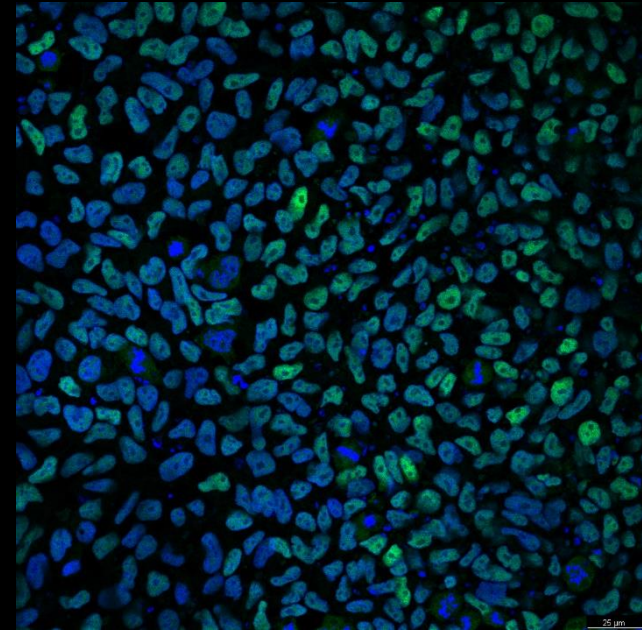
CDX2 DAPI



Vimentin DAPI



Brachyury DAPI

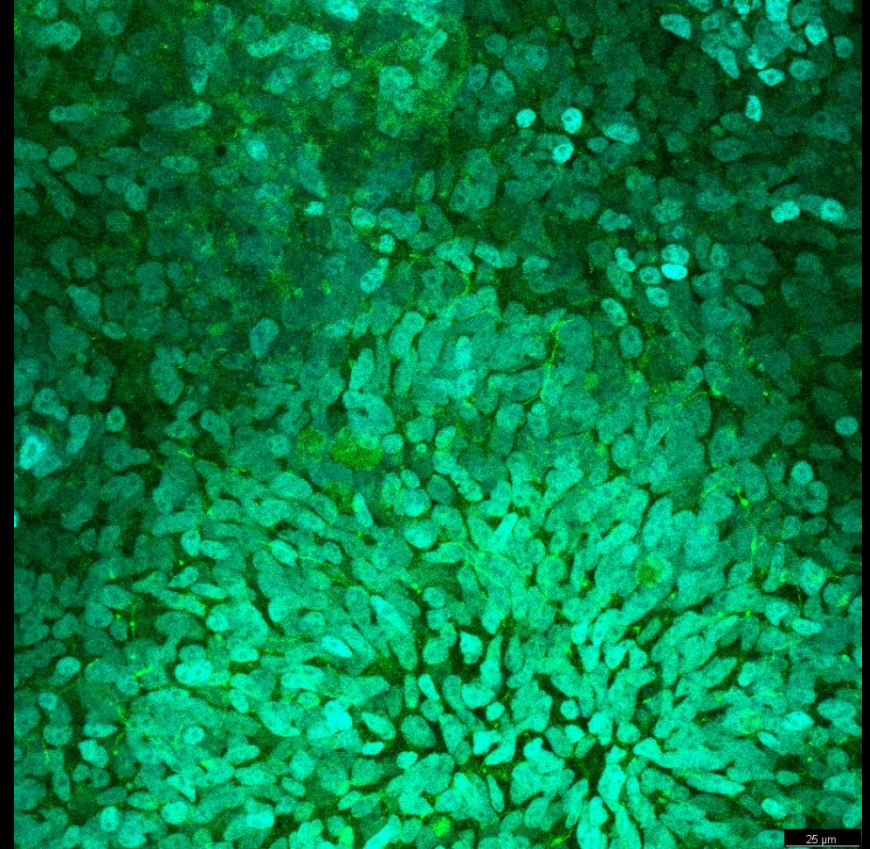
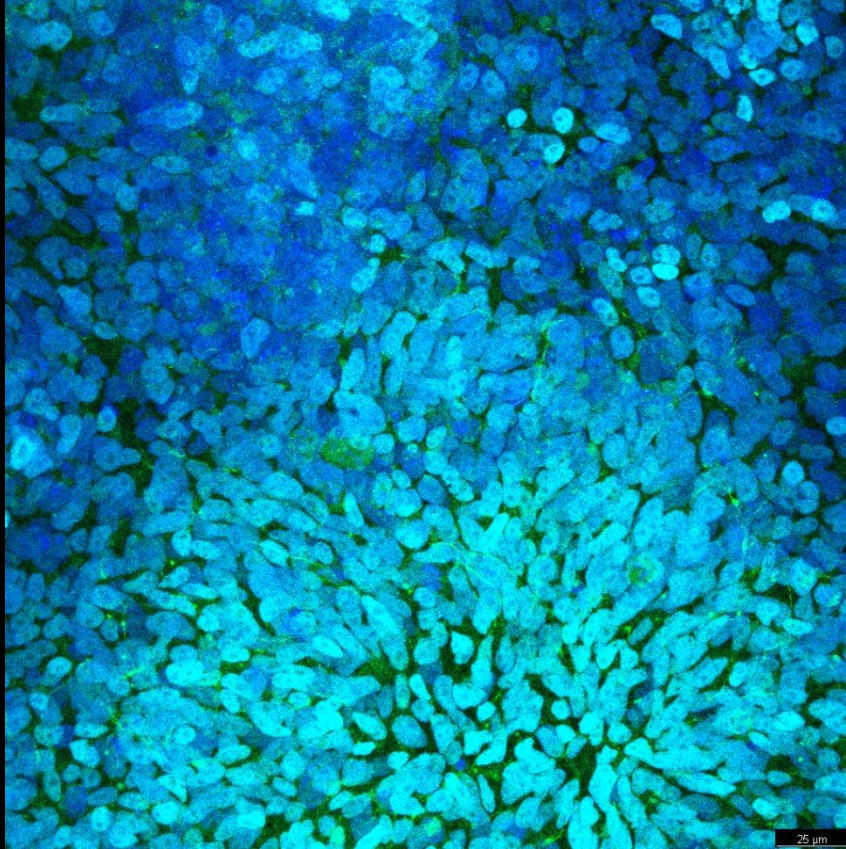


LUMC0196iOAT02

Ectoderm

Nestin PAX6 DAPI

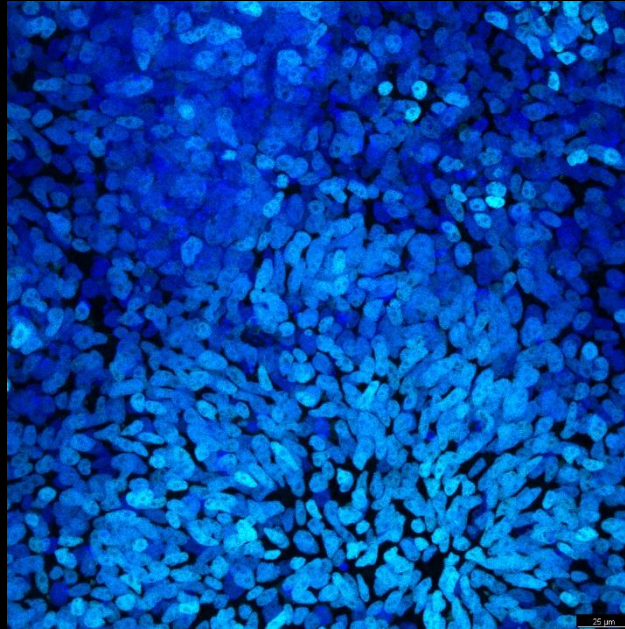
Nestin PAX6



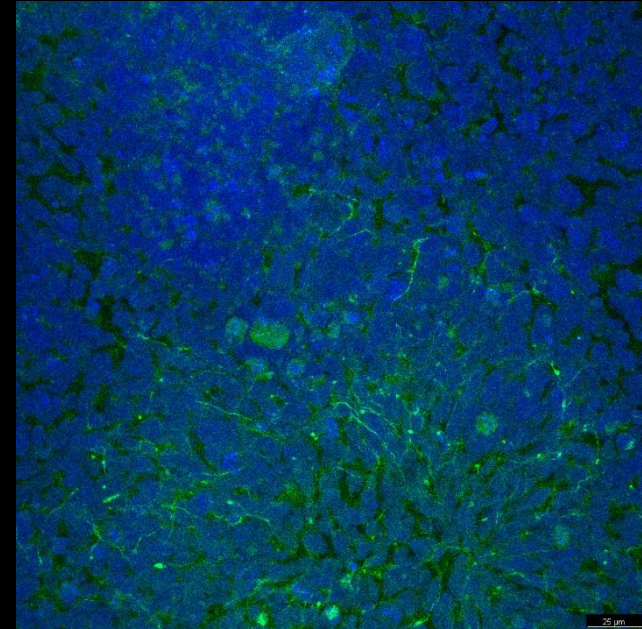
LUMC0196iOAT02

Ectoderm

PAX6 DAPI



Nestin DAPI

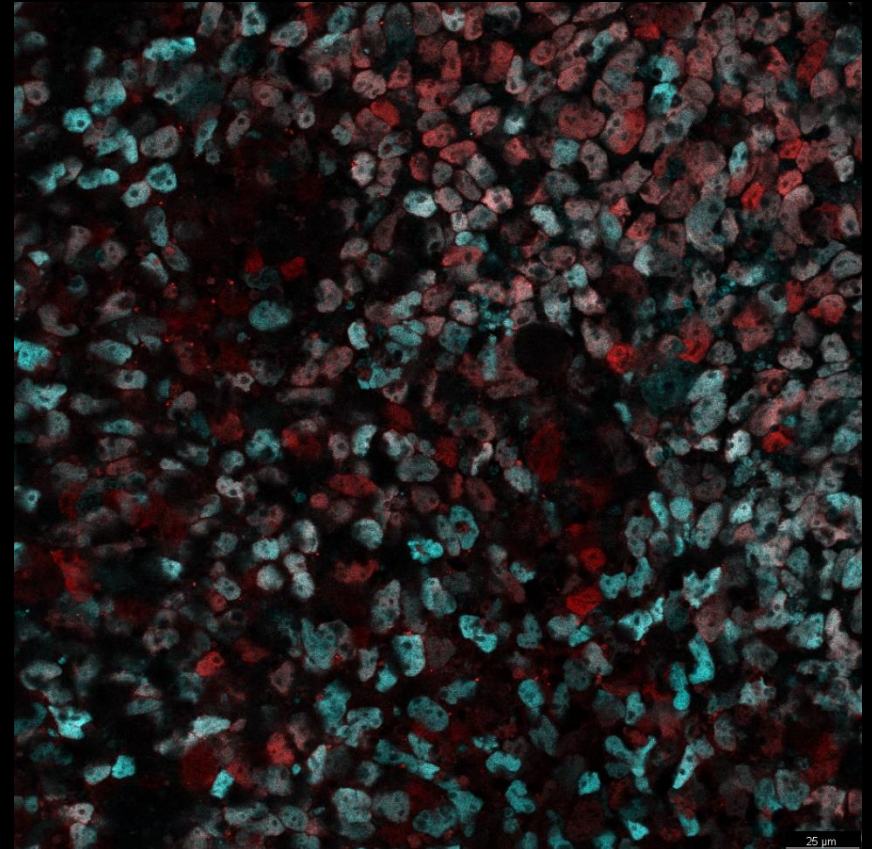
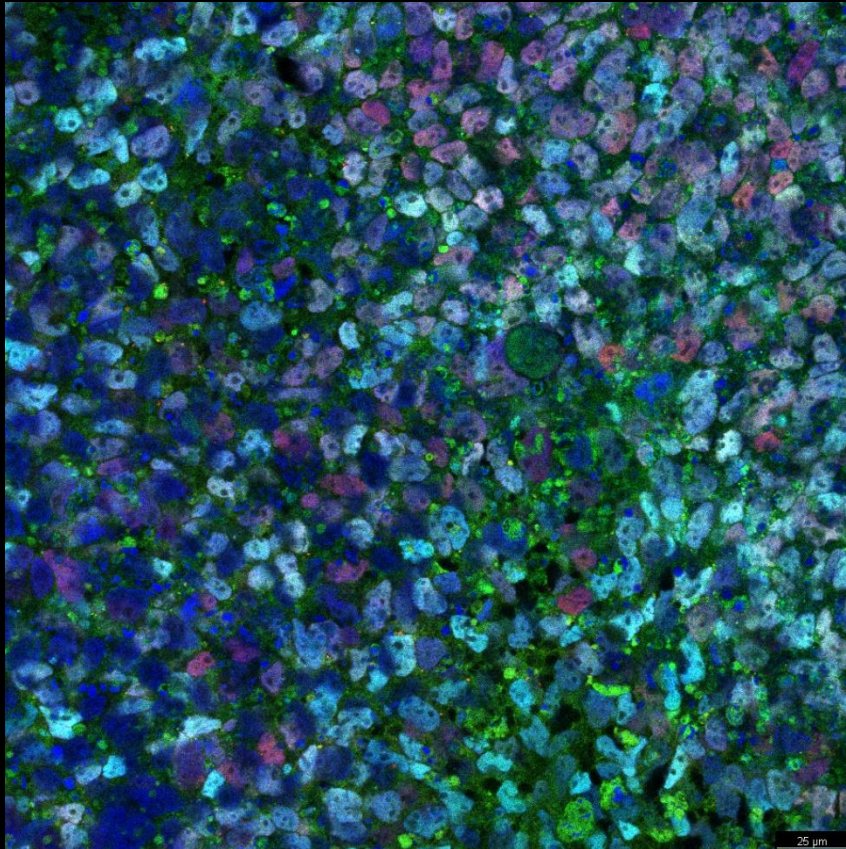


LUMC0196iOAT02

Endoderm

Eomes FOXA2 GATA4 DAPI

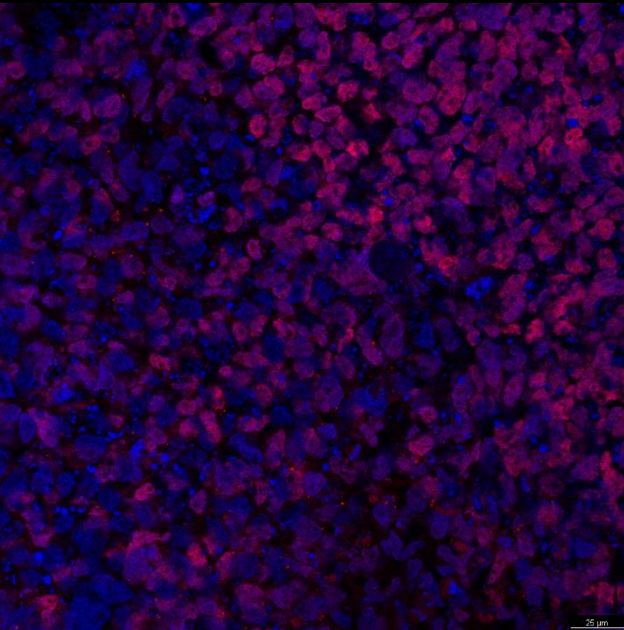
FOXA2 GATA4



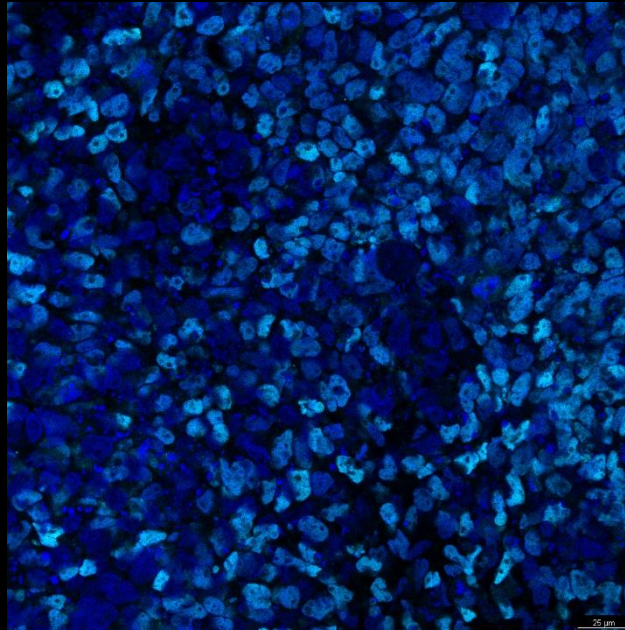
LUMC0196iOAT02

Endoderm

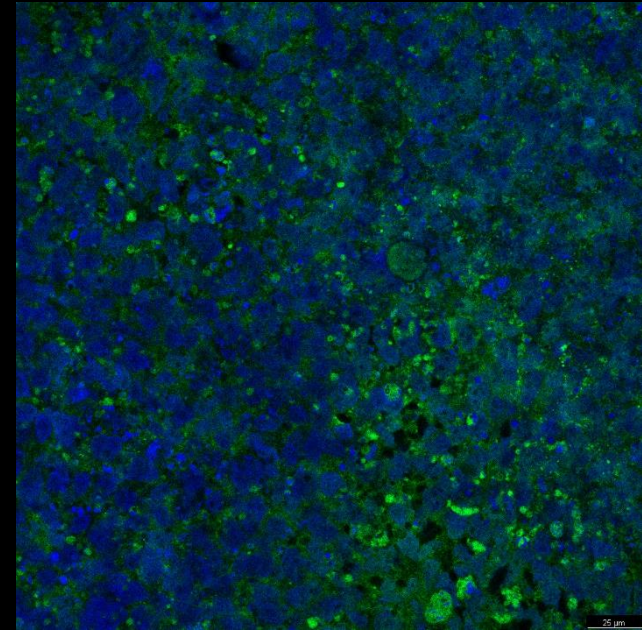
FOXA2 DAPI



GATA4 DAPI



Eomes DAPI

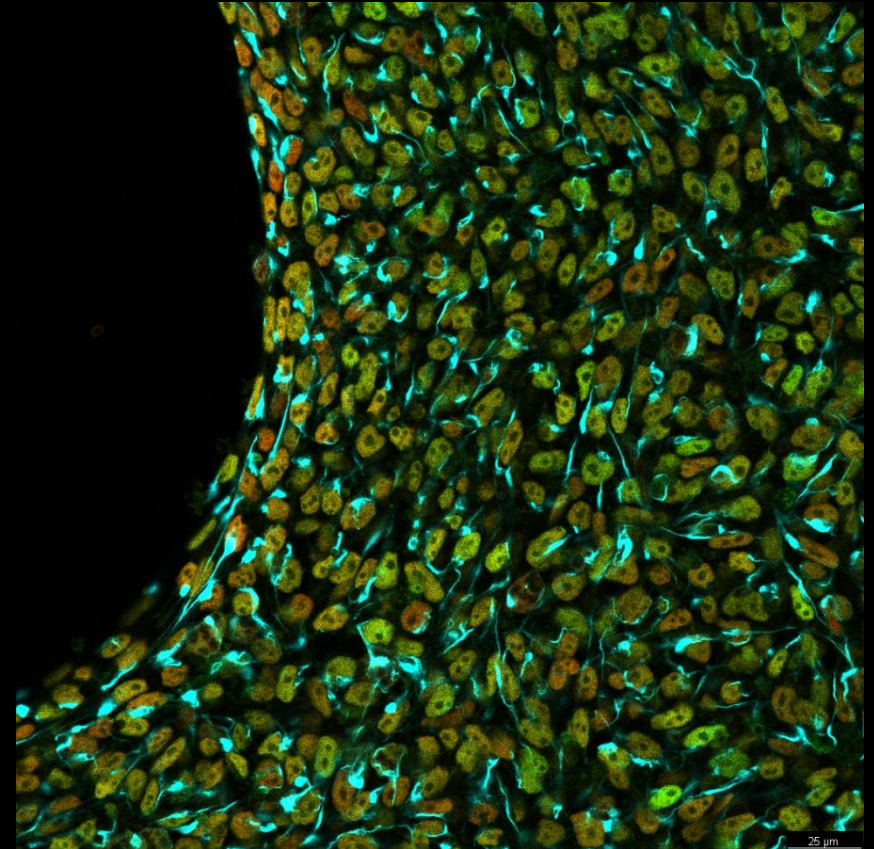
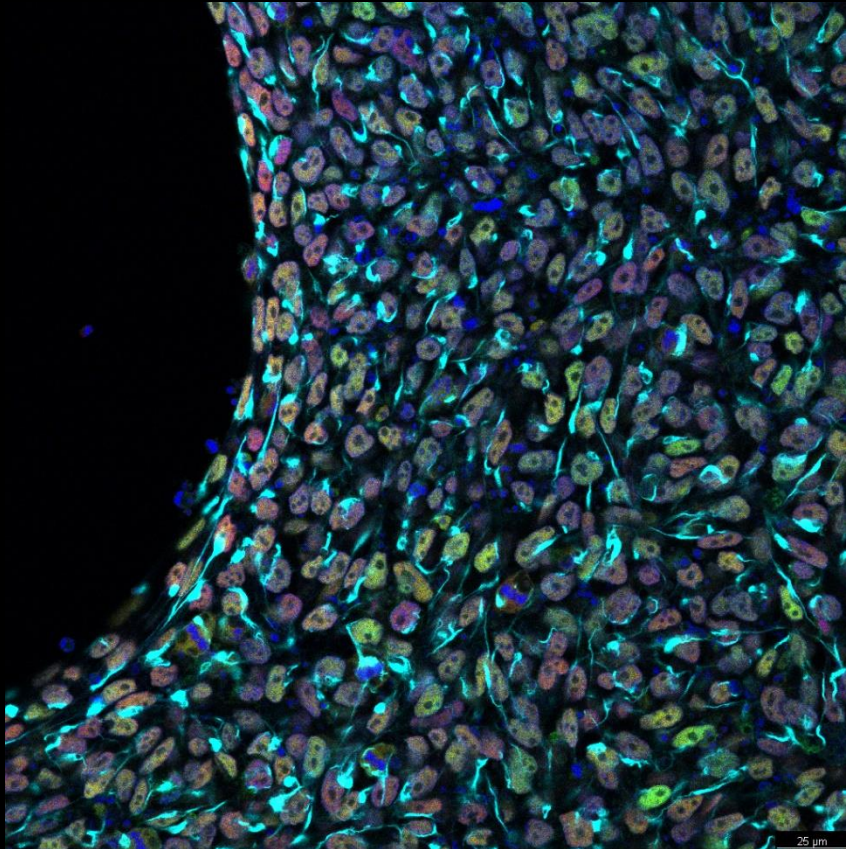


LUMC0196iOAT02

Mesoderm

Brachyury CDX2 Vimentin DAPI

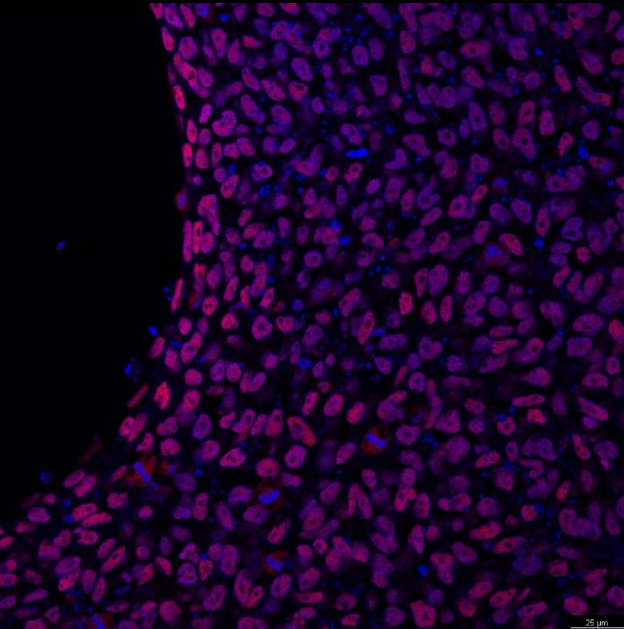
Brachyury CDX2 Vimentin



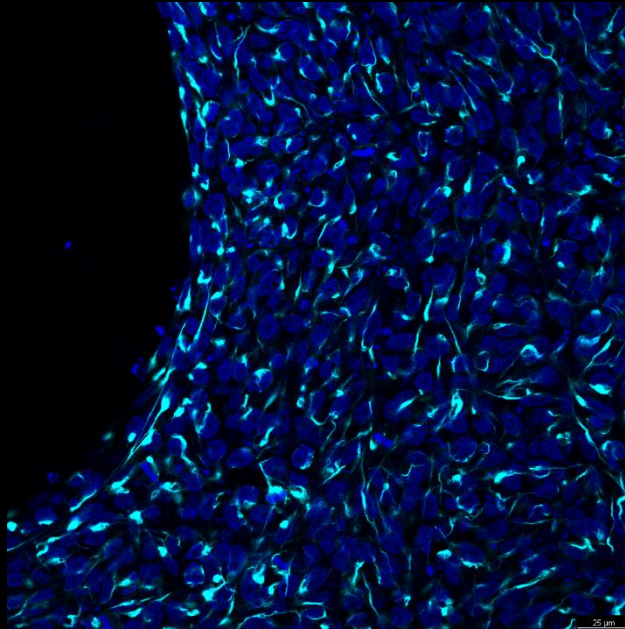
LUMC0196iOAT02

Mesoderm

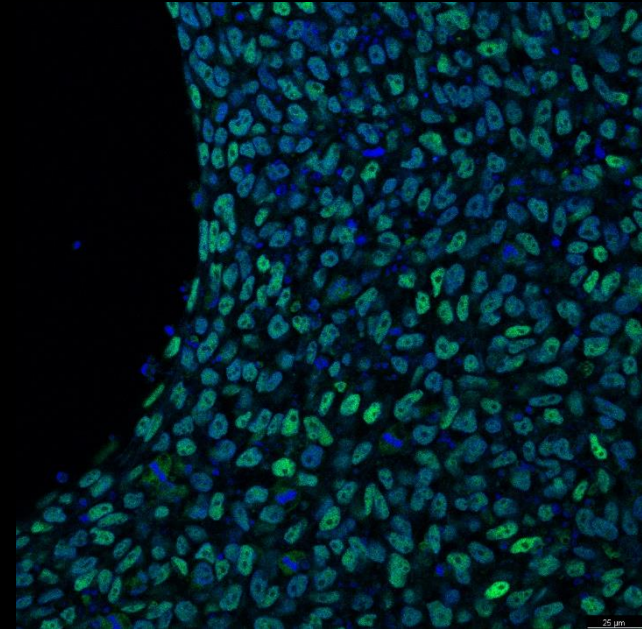
CDX2 DAPI



Vimentin DAPI



Brachyury DAPI

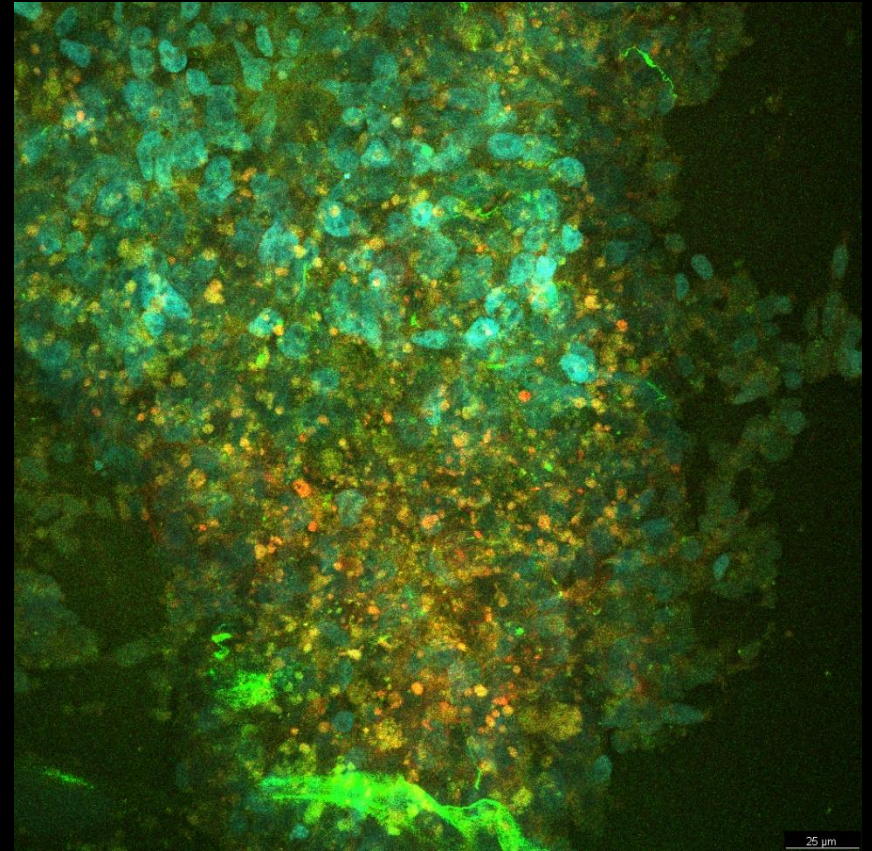
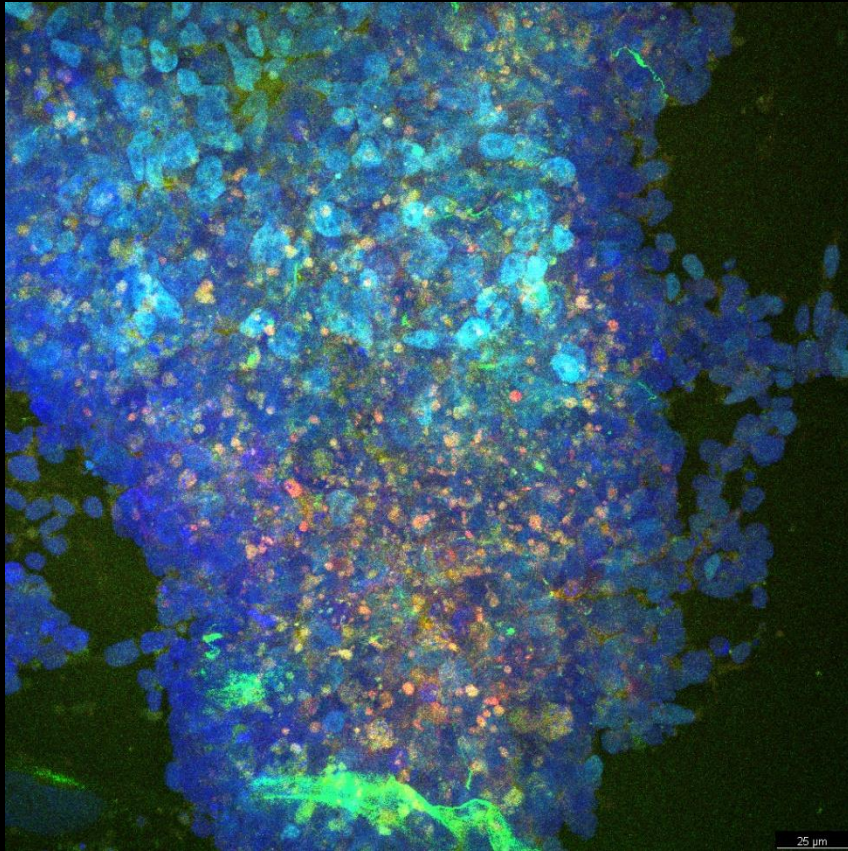


LUMC0196iOAT03

Ectoderm

FABP7 Nestin PAX6 DAPI

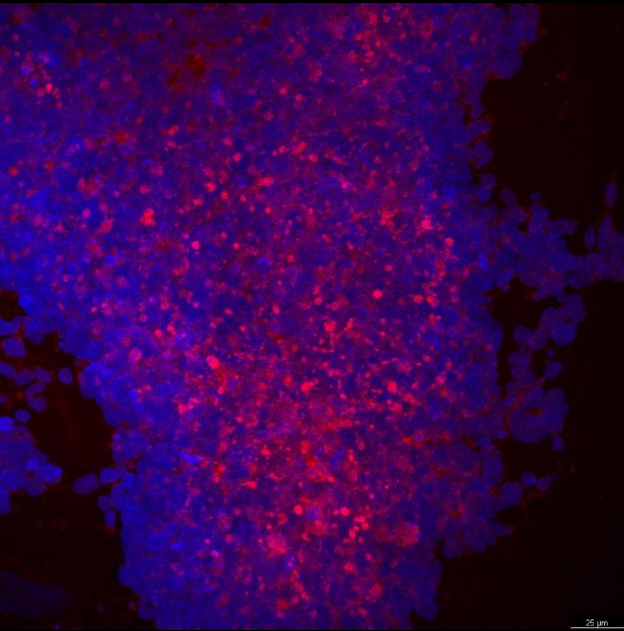
FABP7 Nestin PAX6



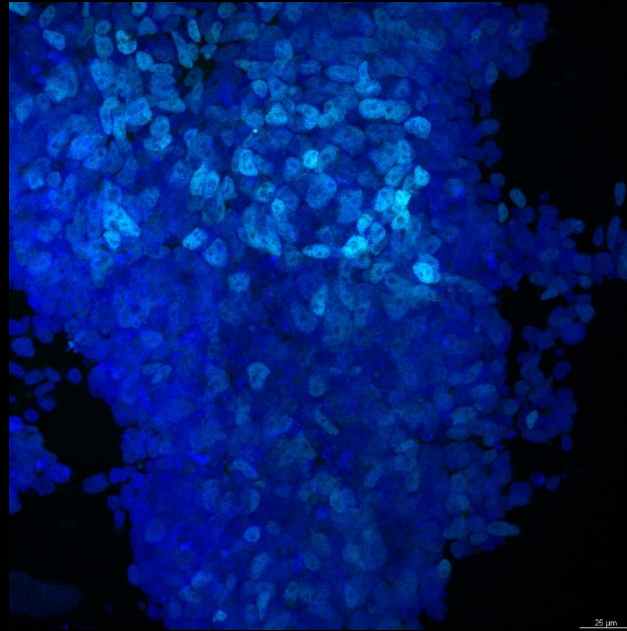
LUMC0196iOAT03

Ectoderm

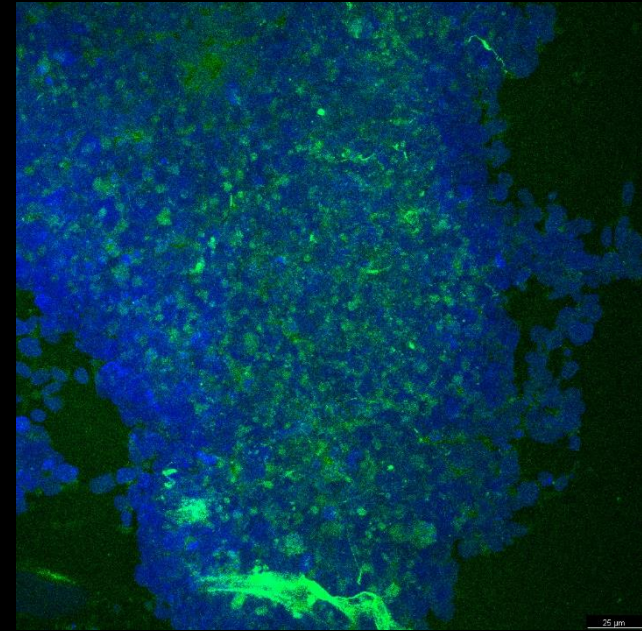
FABP7 DAPI



PAX6 DAPI



Nestin DAPI

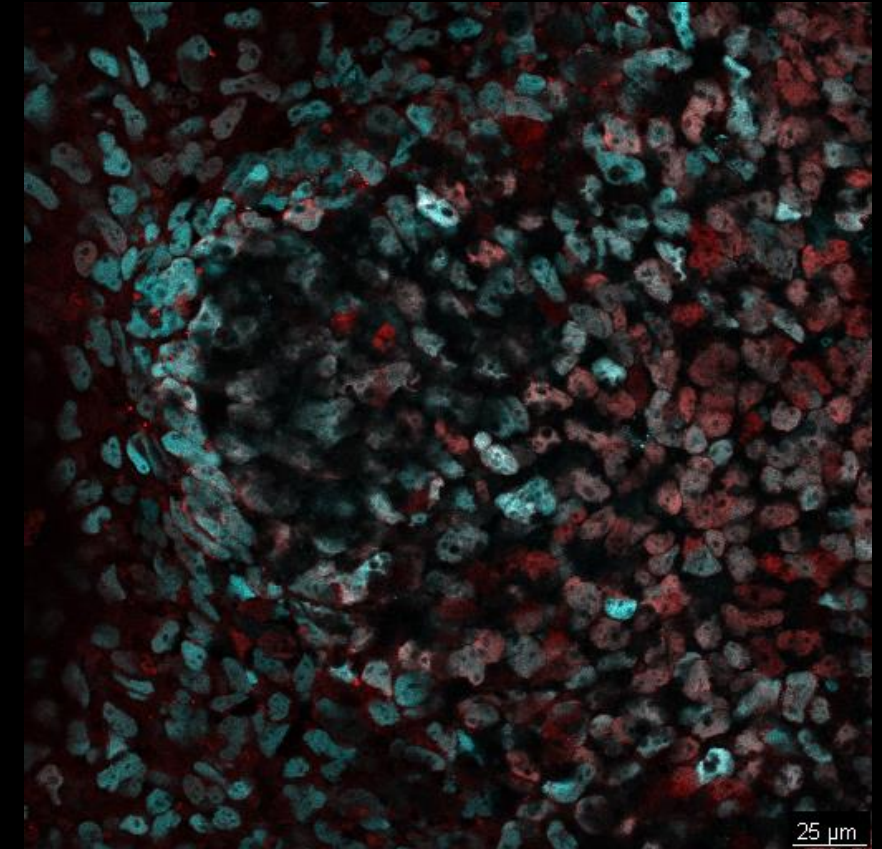
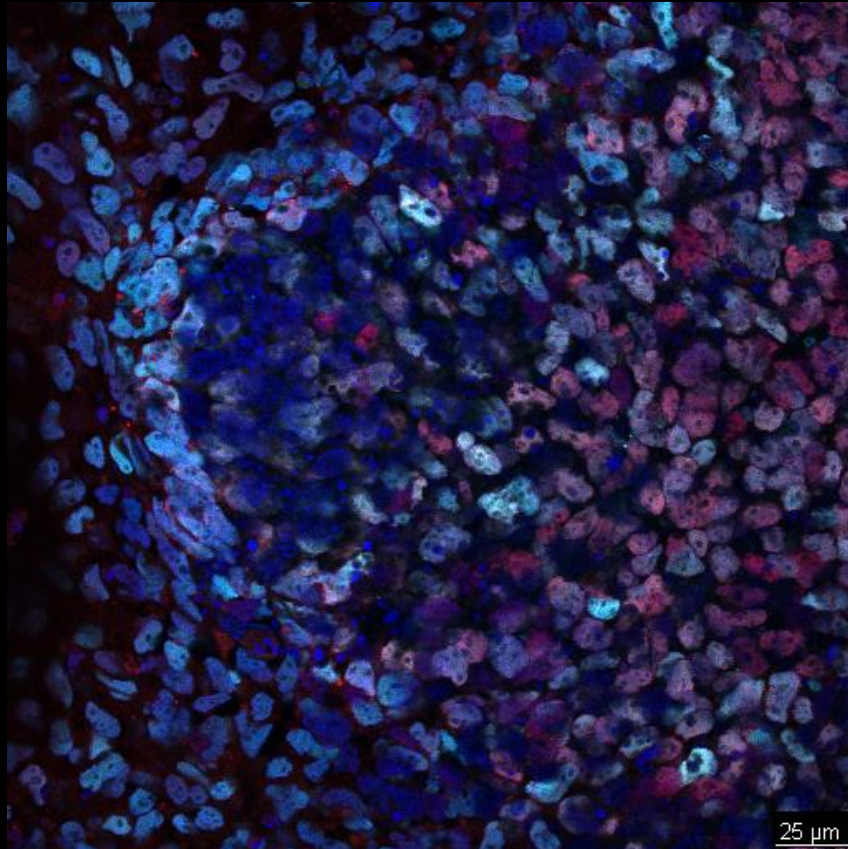


LUMC0196iOAT03

Endoderm

FOXA2 GATA4 DAPI

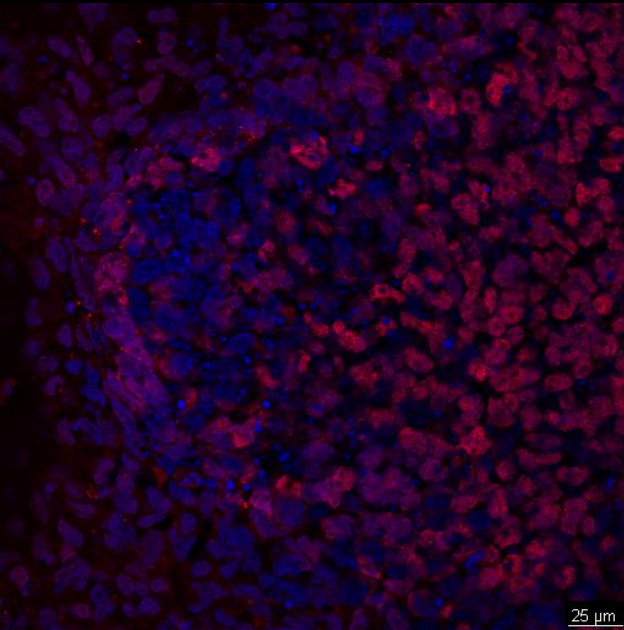
FOXA2 GATA4



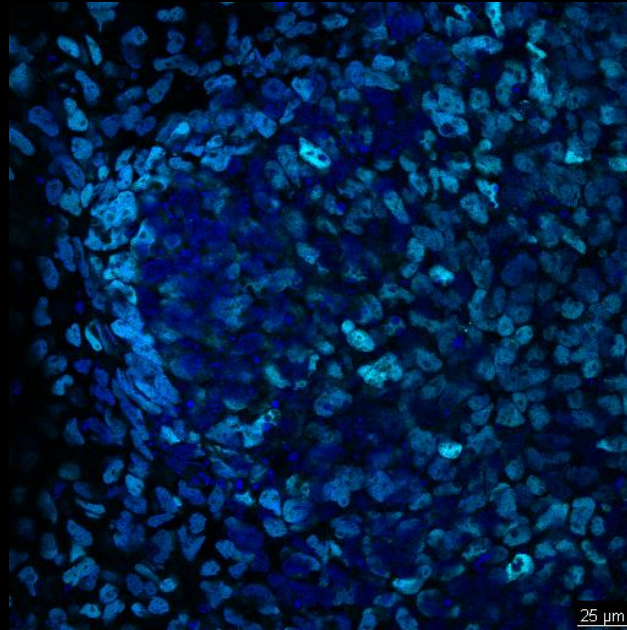
LUMC0196iOAT03

Endoderm

FOXA2 DAPI



GATA4 DAPI

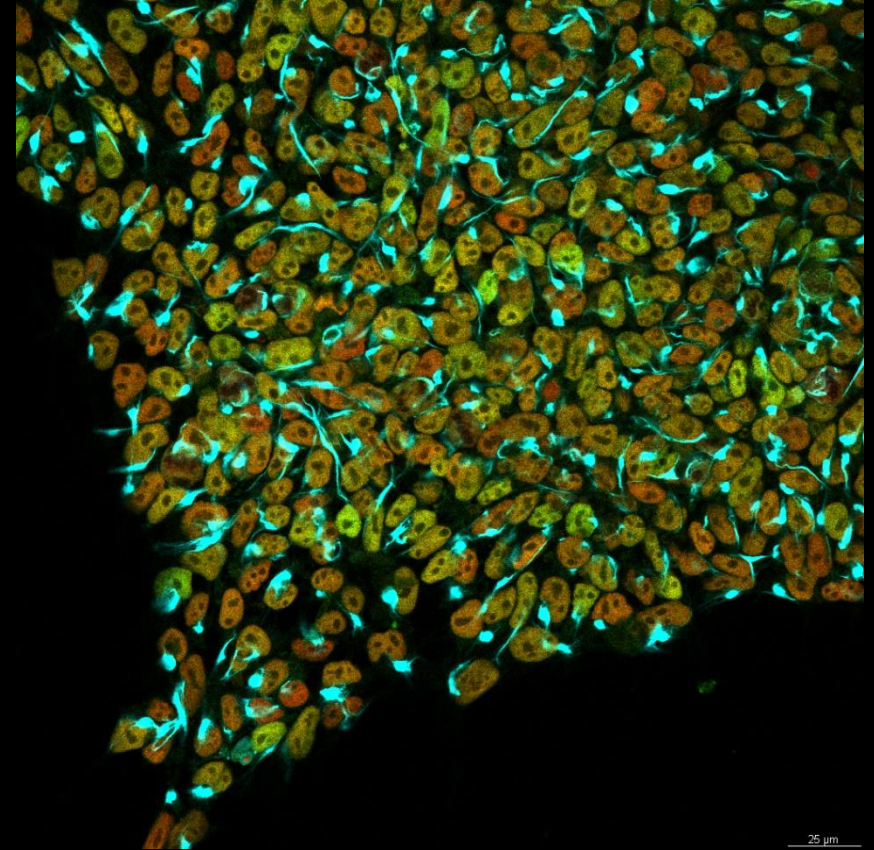
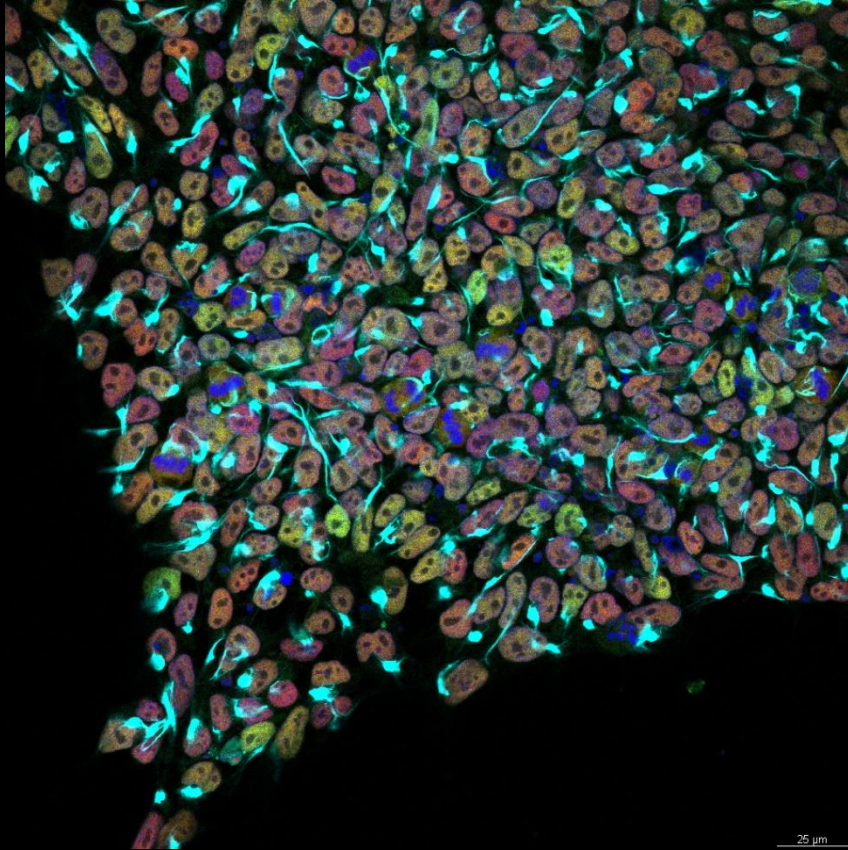


LUMC0196iOAT03

Mesoderm

Brachyury CDX2 Vimentin DAPI

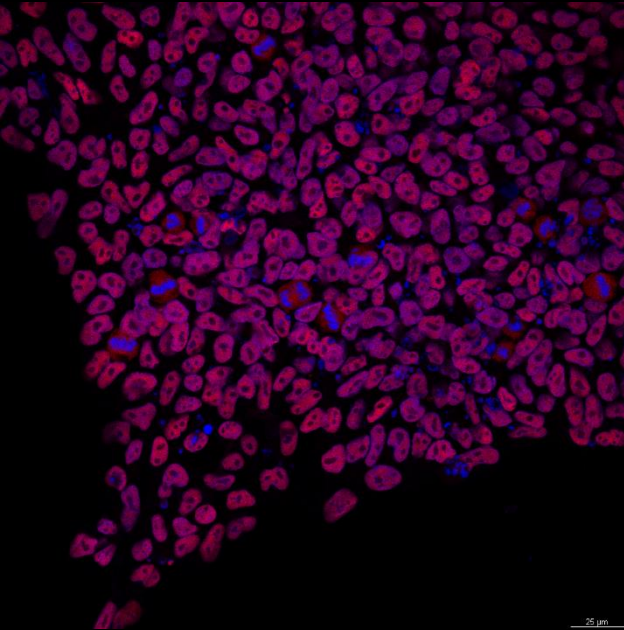
Brachyury CDX2 Vimentin



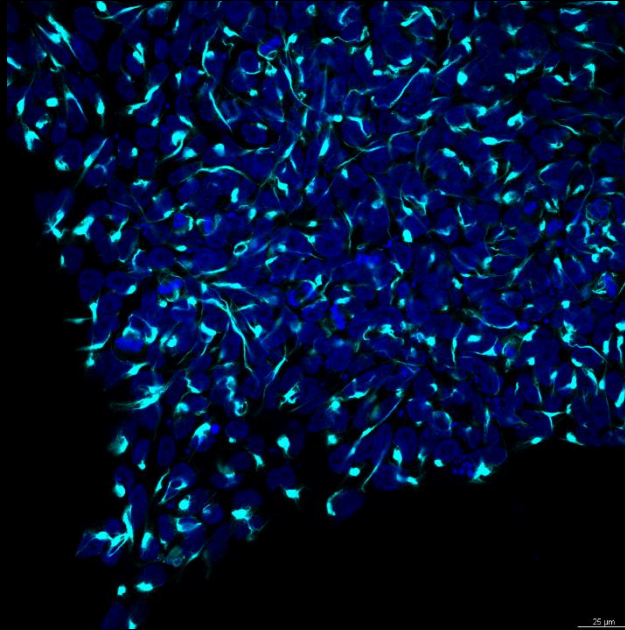
LUMC0196iOAT03

Mesoderm

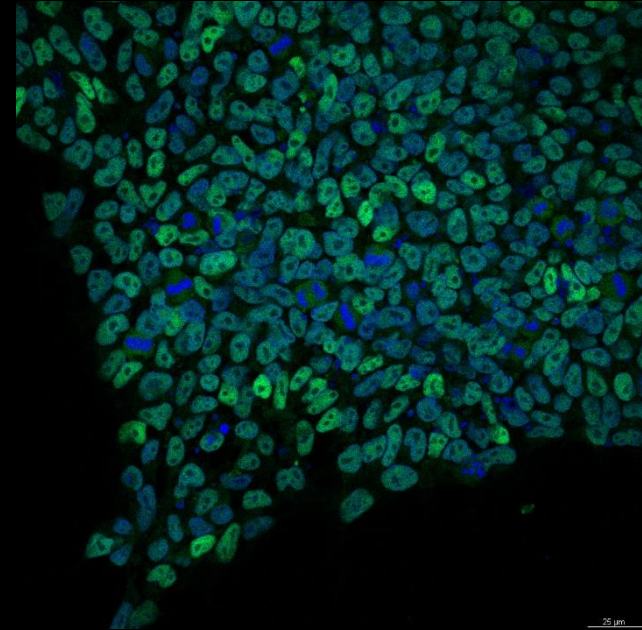
CDX2 DAPI



Vimentin DAPI



Brachyury DAPI



Conclusion

Clone	Ectoderm	Endoderm	Mesoderm
01	V	V	V
02	V	V	V
03	V	V	V

Pluripotency FACS results

Clone	OCT 3/4	NANOG	SSEA4
01	>90%	>95%	>95%
02	>95%	>95%	>60%
03	>90%	>90%	>90%

Pluripotent stem cell: >75% positive