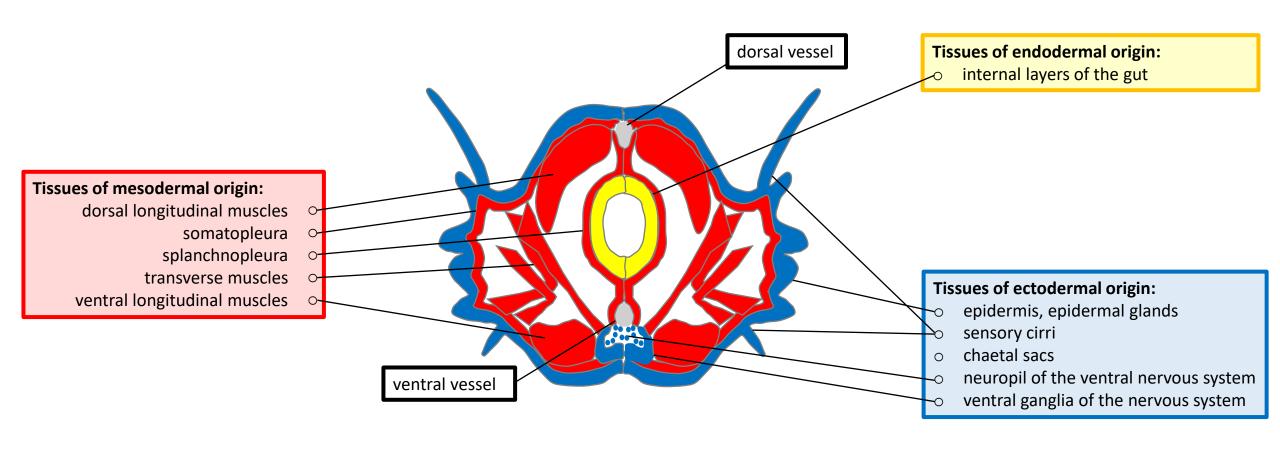
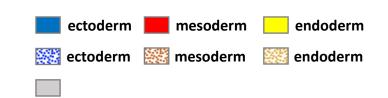
Supplementary data file 7, transgenic clones, part A

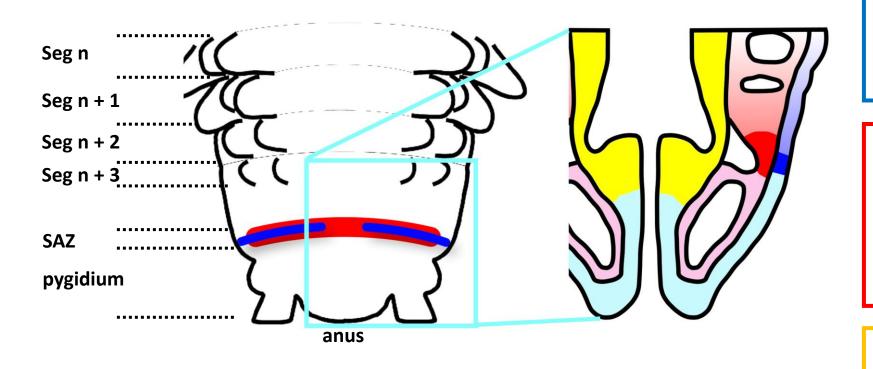
Description of the transverse section scheme used for the mapping of transgenic clones



Transgenic tissues are highlighted in the germ layer color code Transgenic tissues displaying stochastic expression Non fluorescent tissues (or slightly autofluorescent) are in grey



Schematic frontal section used showing the locations of putative posterior stem cells



Tissues of ectodermal origin:

- epidermis, epidermal glands
- ectodermal PSCs
- o pygidial epidermis and hindgut

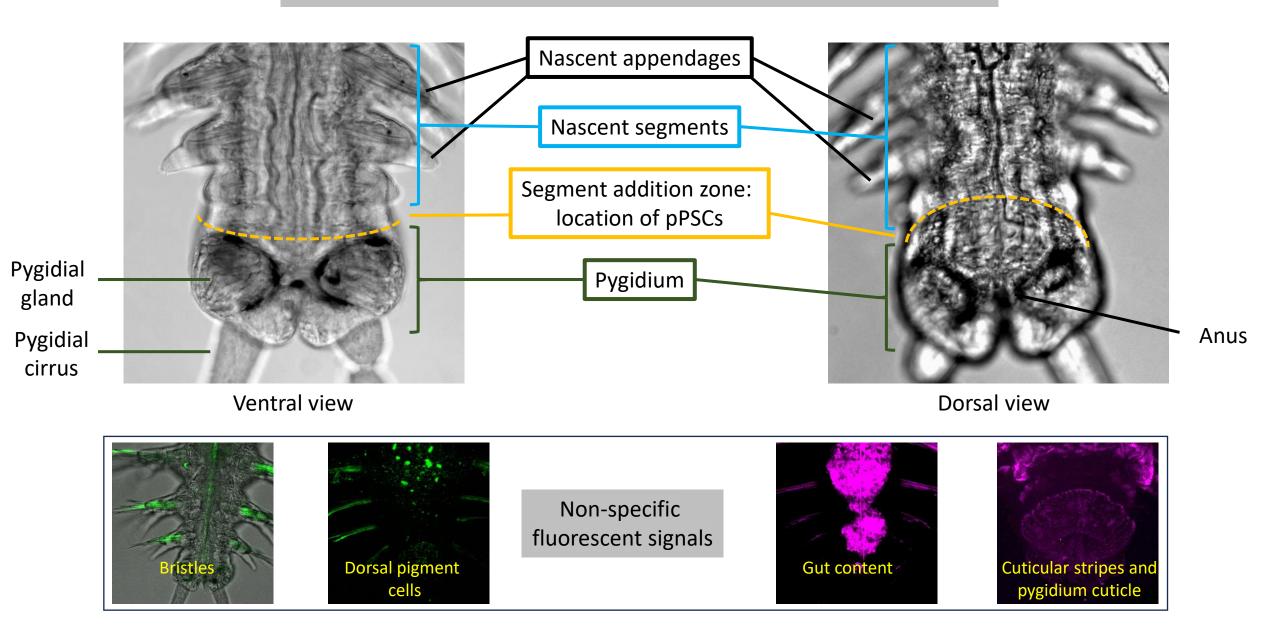
Tissues of mesodermal origin:

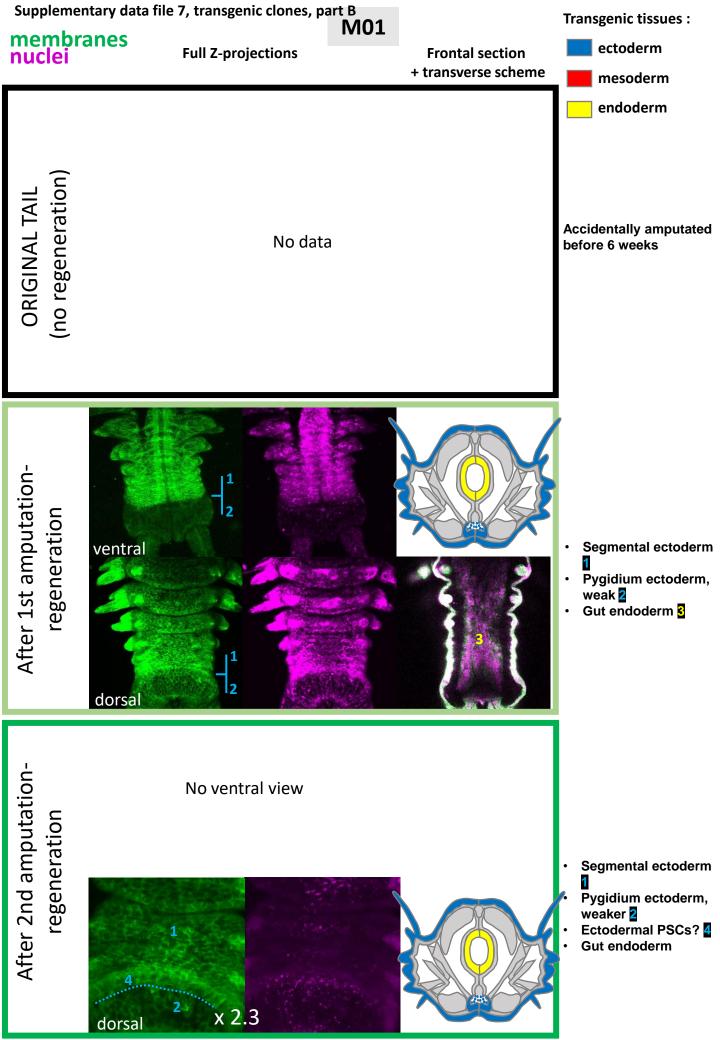
- o coelothel, muscles
- mesodermal PSCs
- pygidial epidermis and hindgut

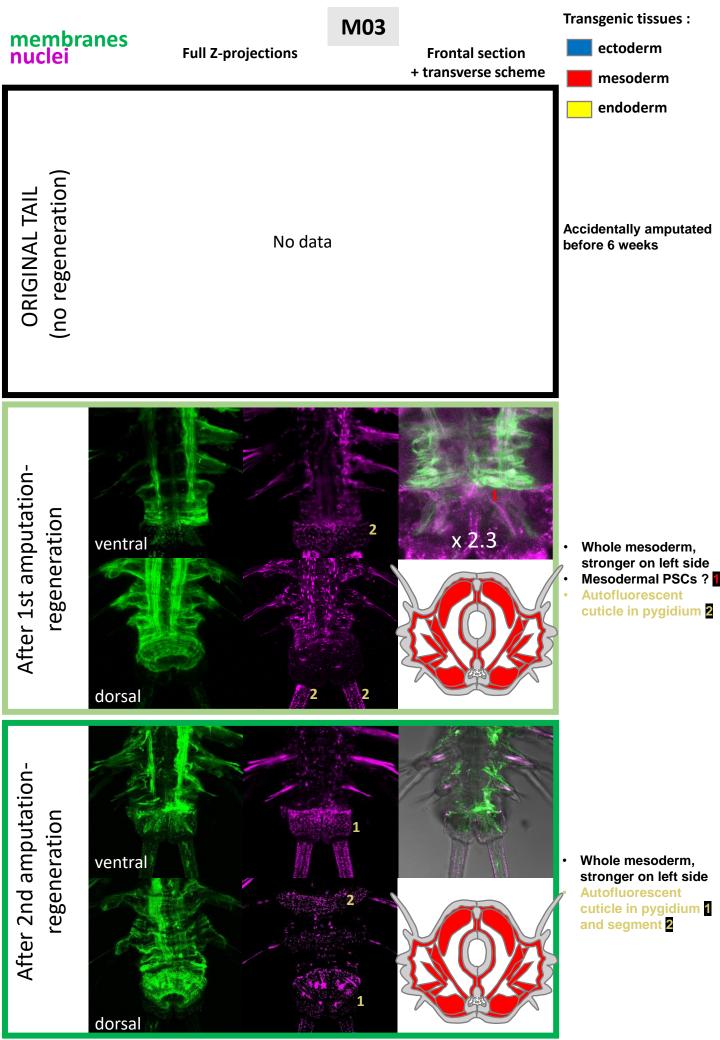
Tissues of endodermal origin:

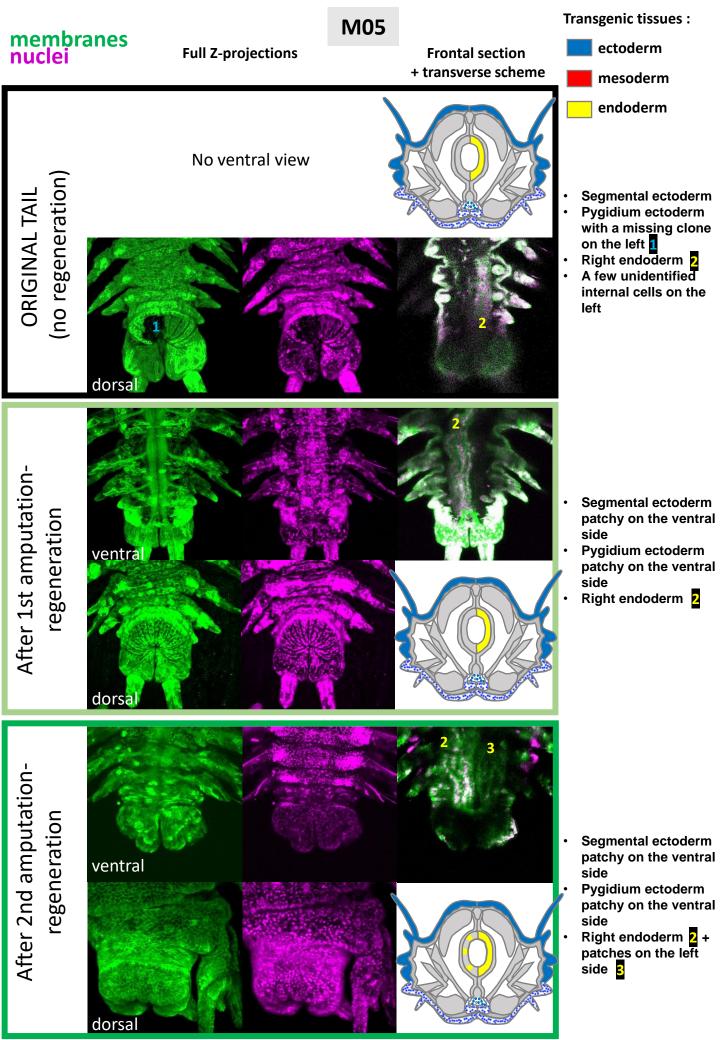
midgut

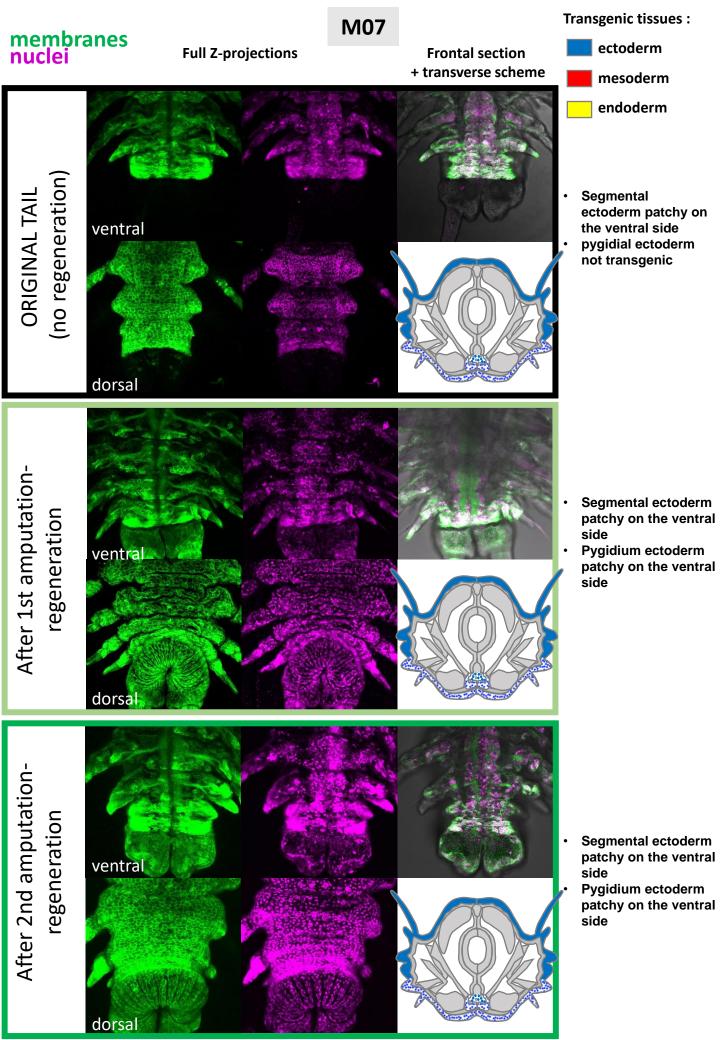
Description of transmitted light views valid for all confocal acquisitions

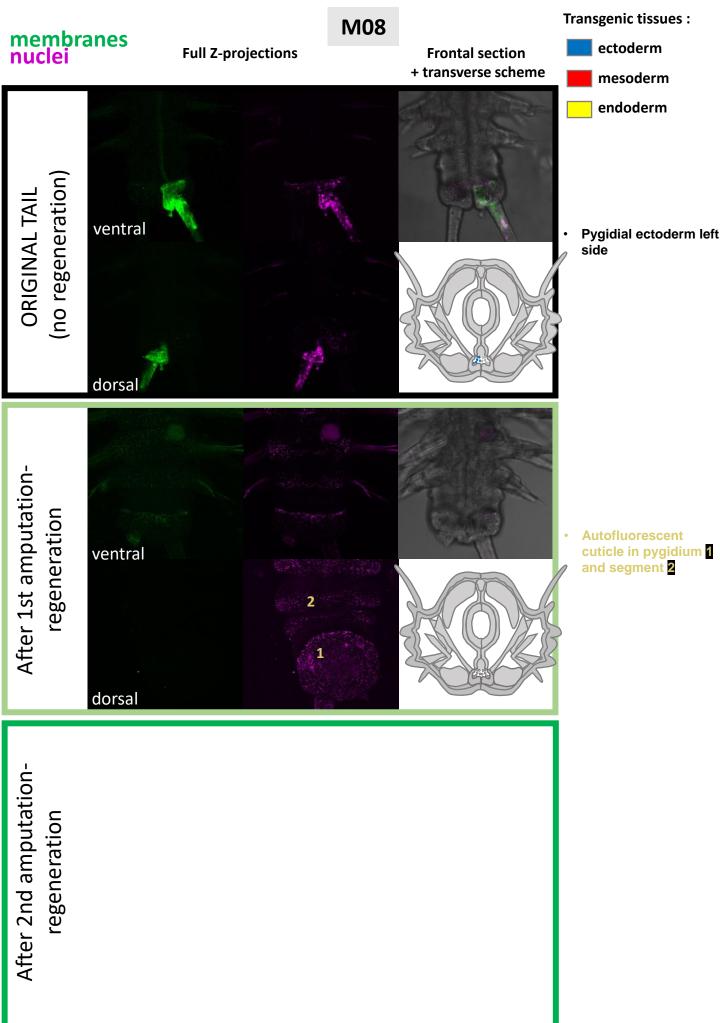


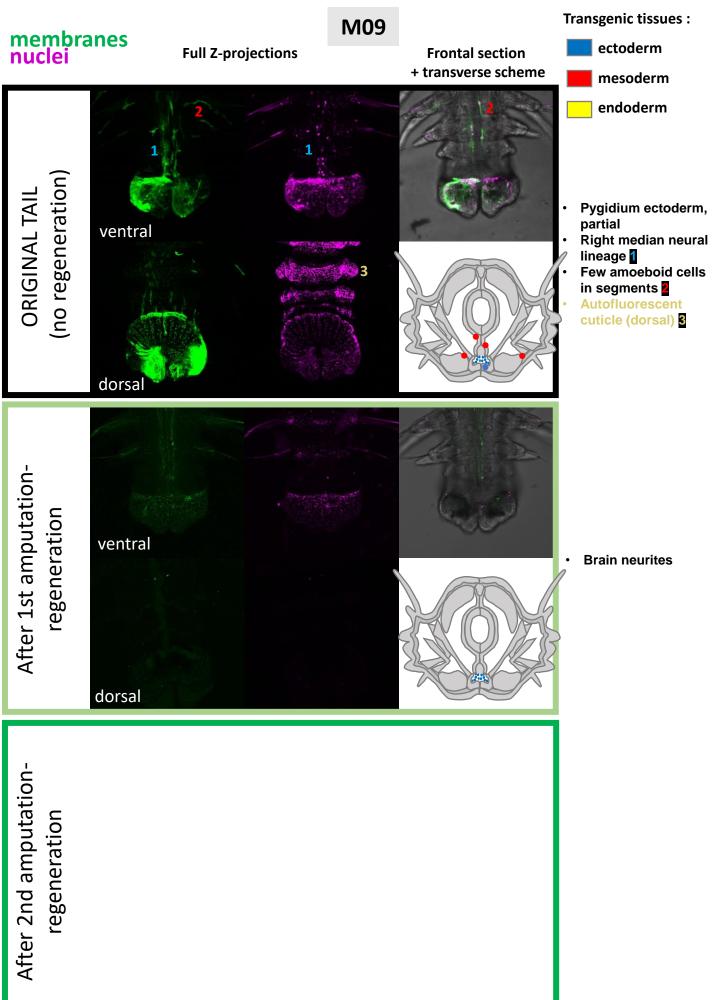


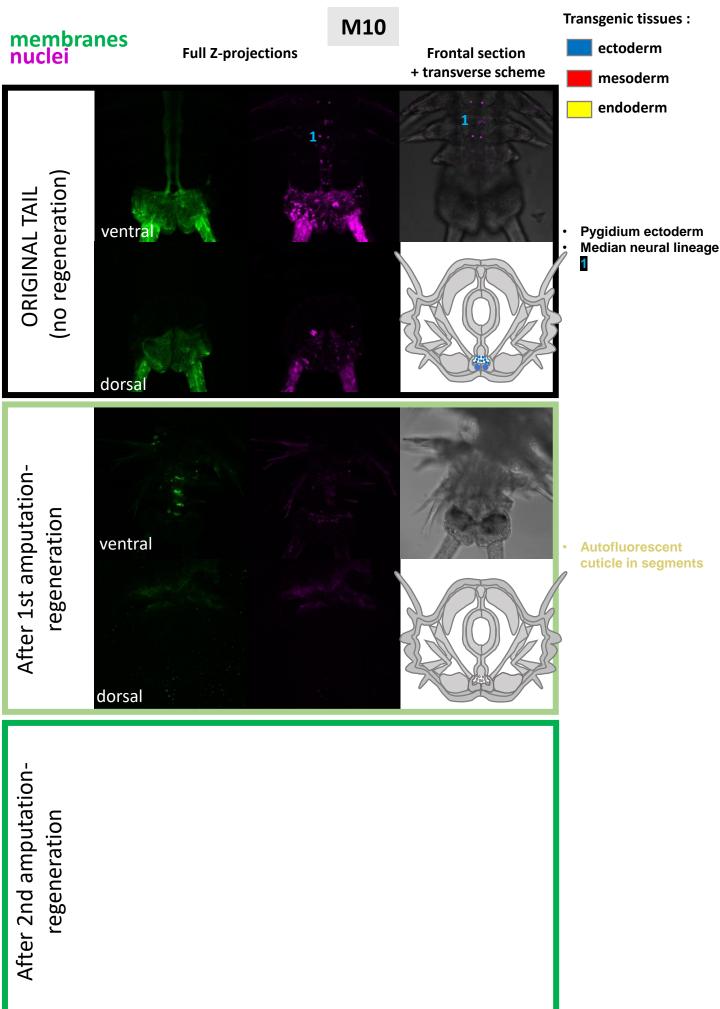


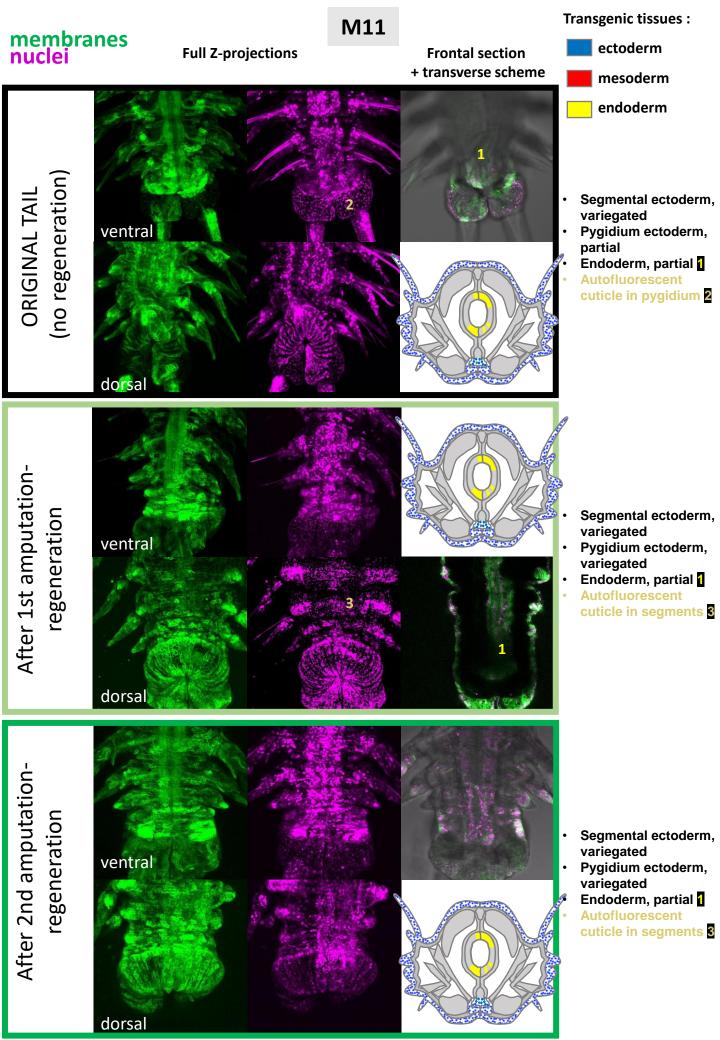


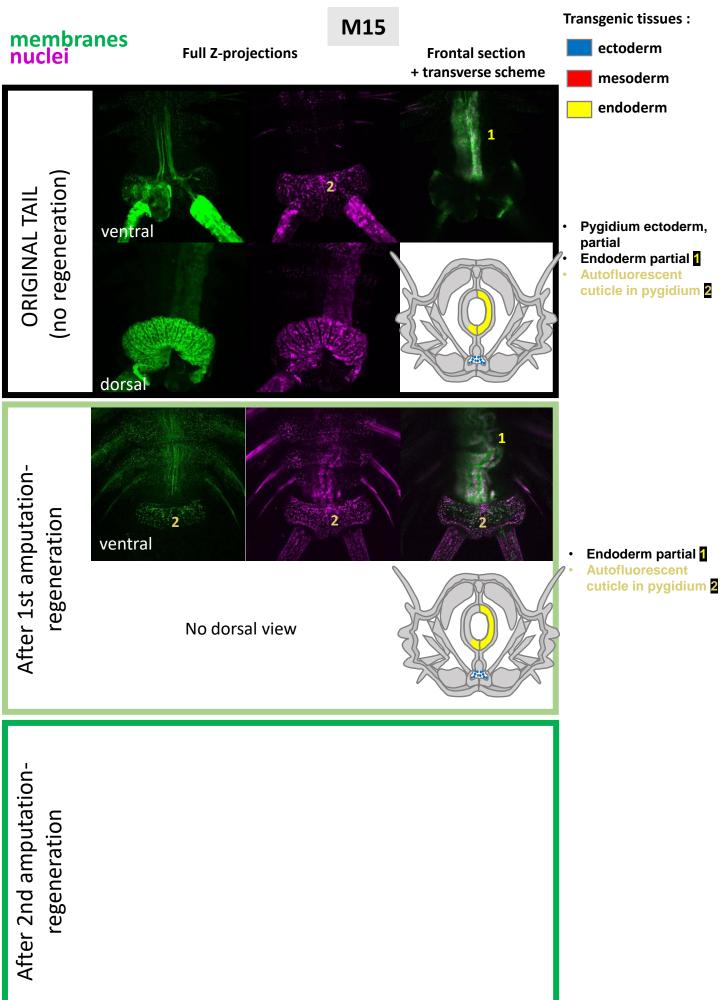


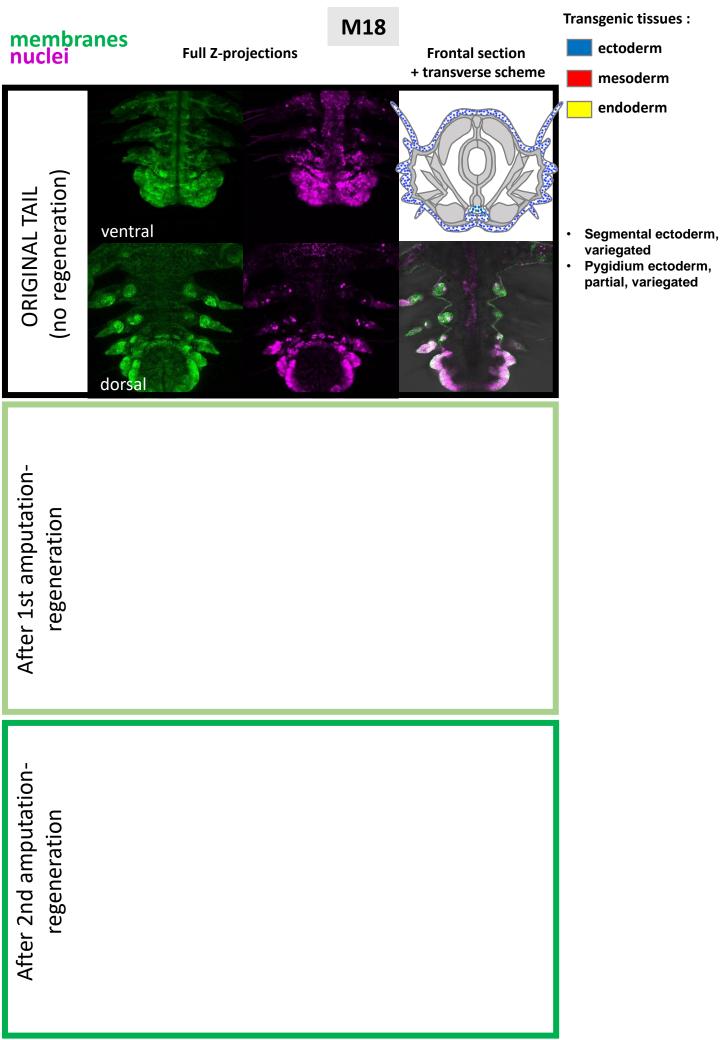


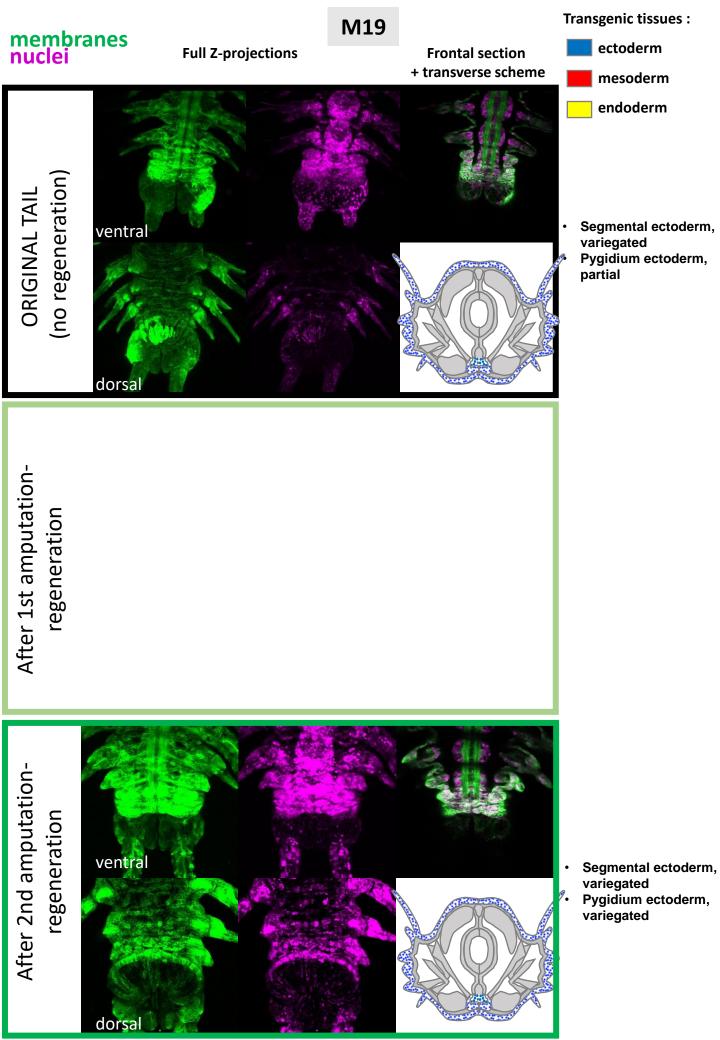


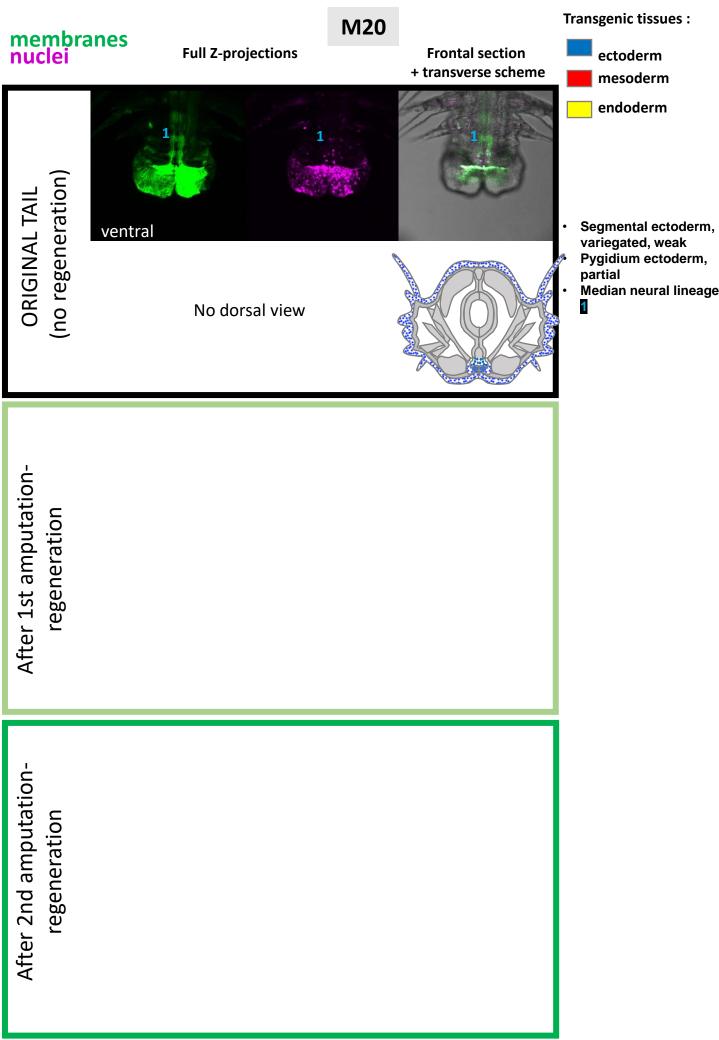


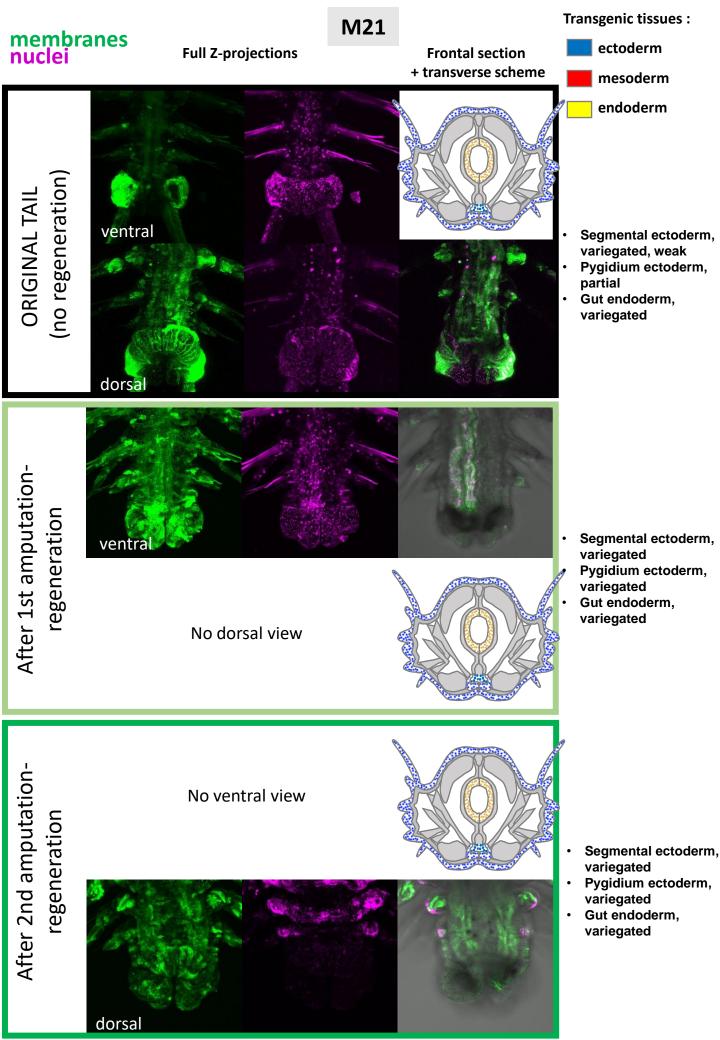


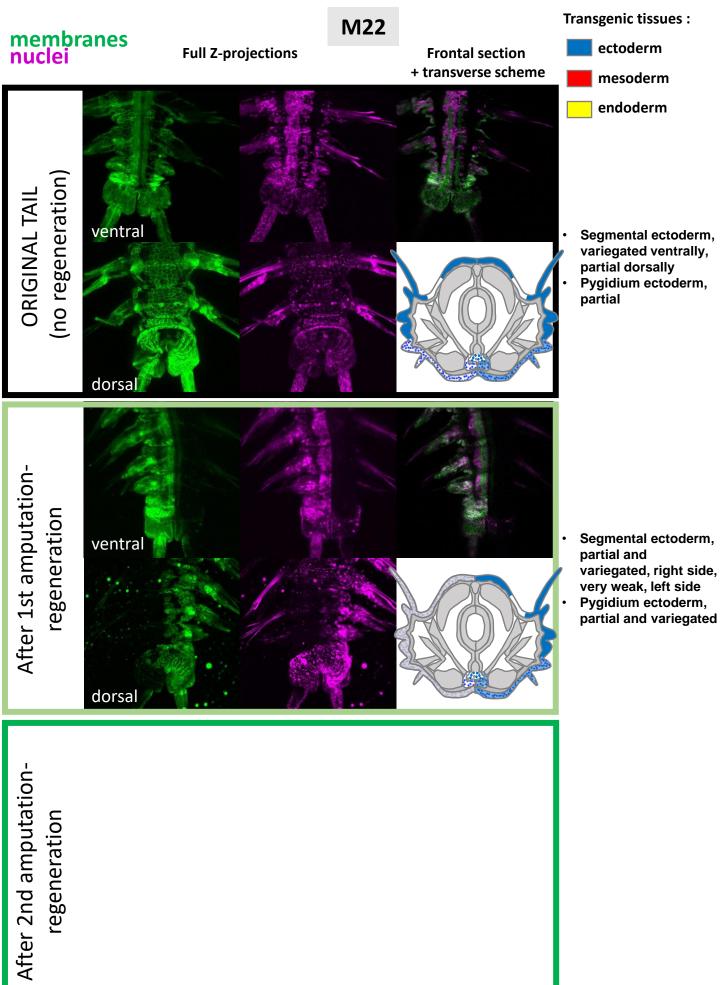


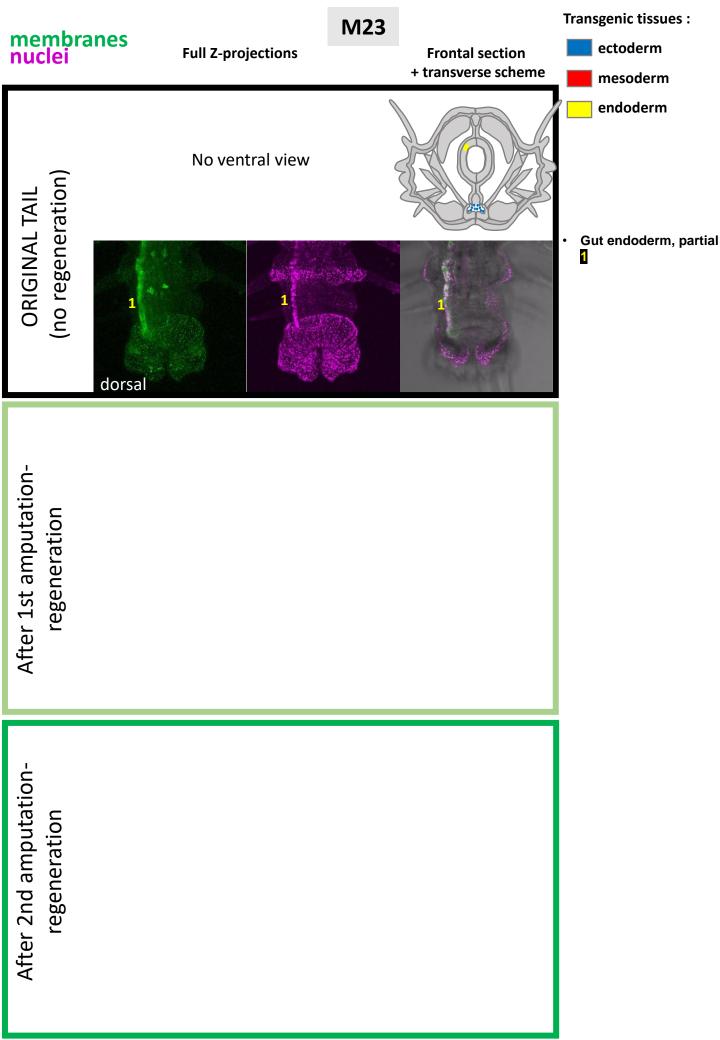


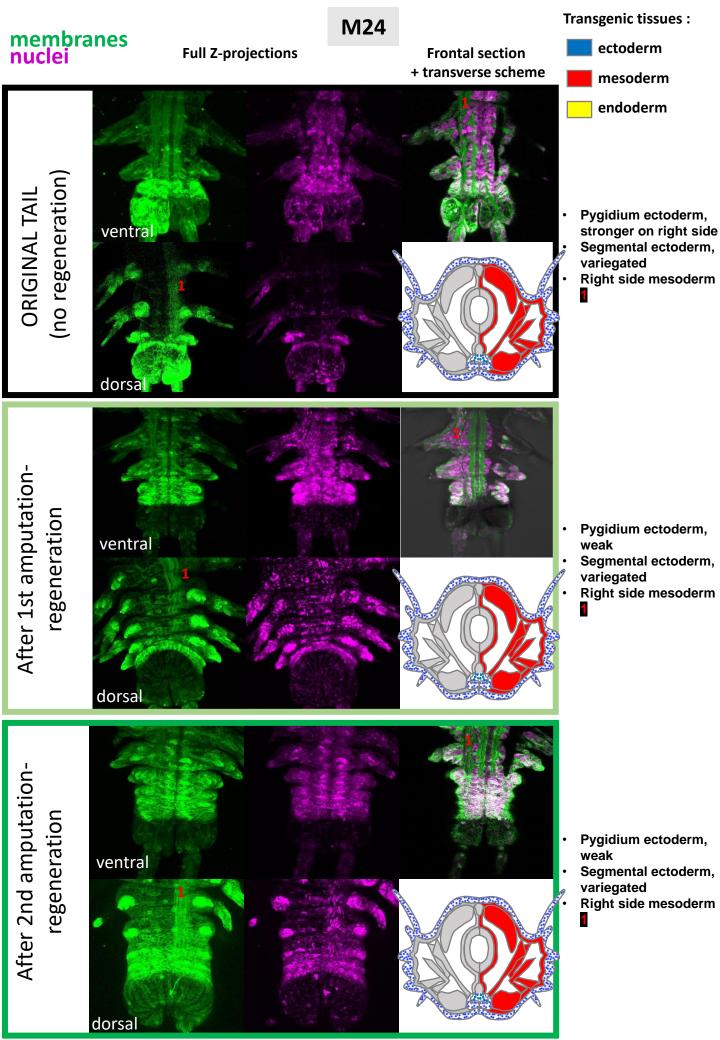


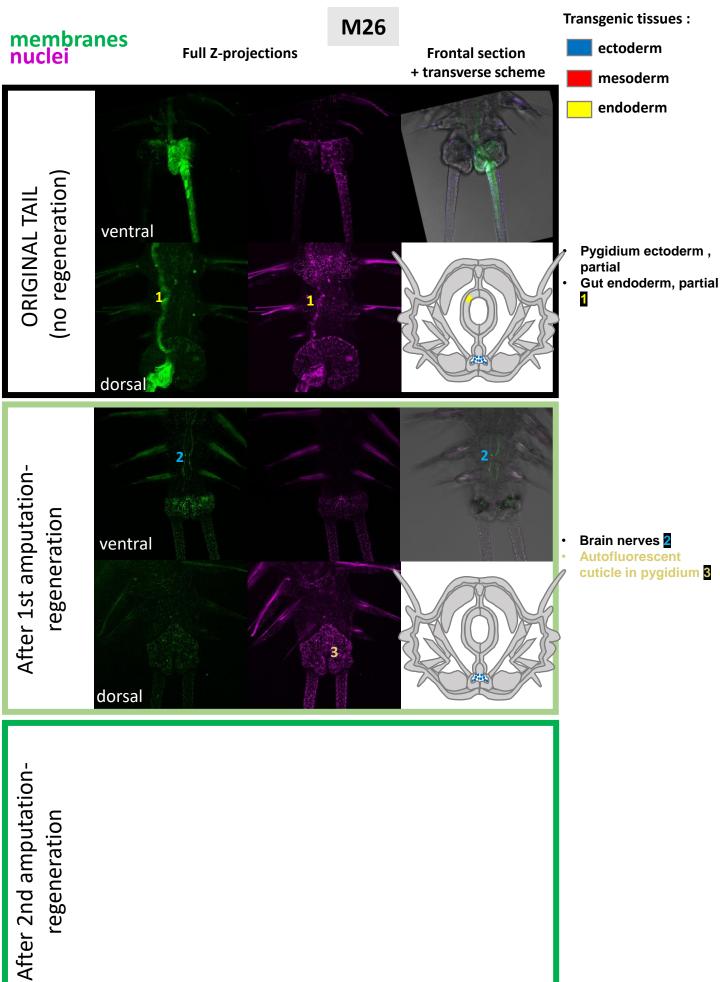


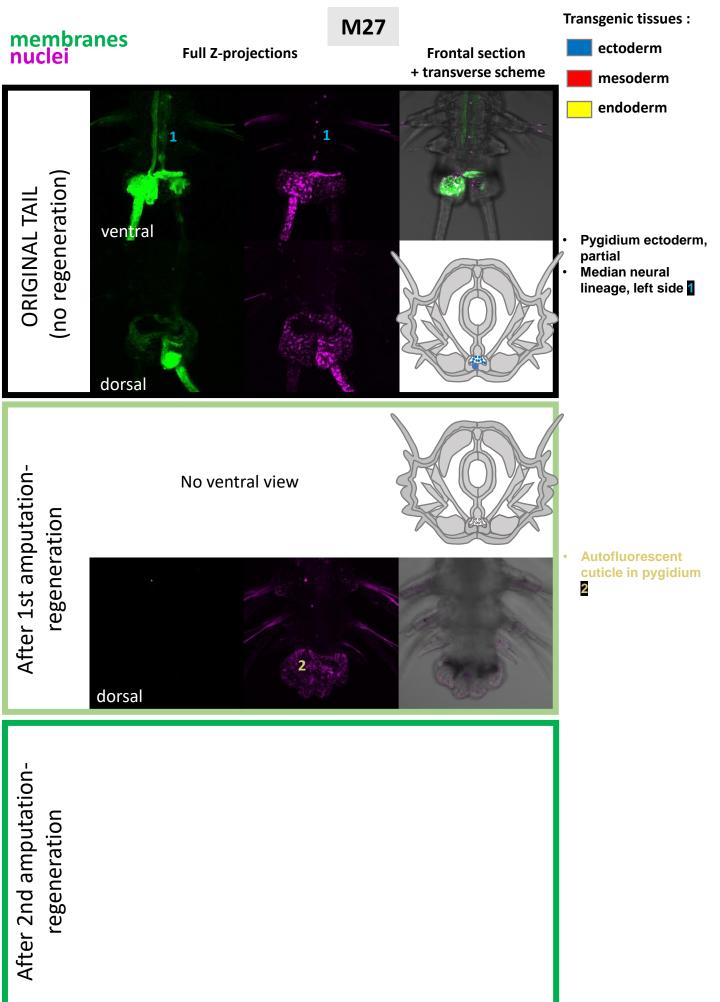


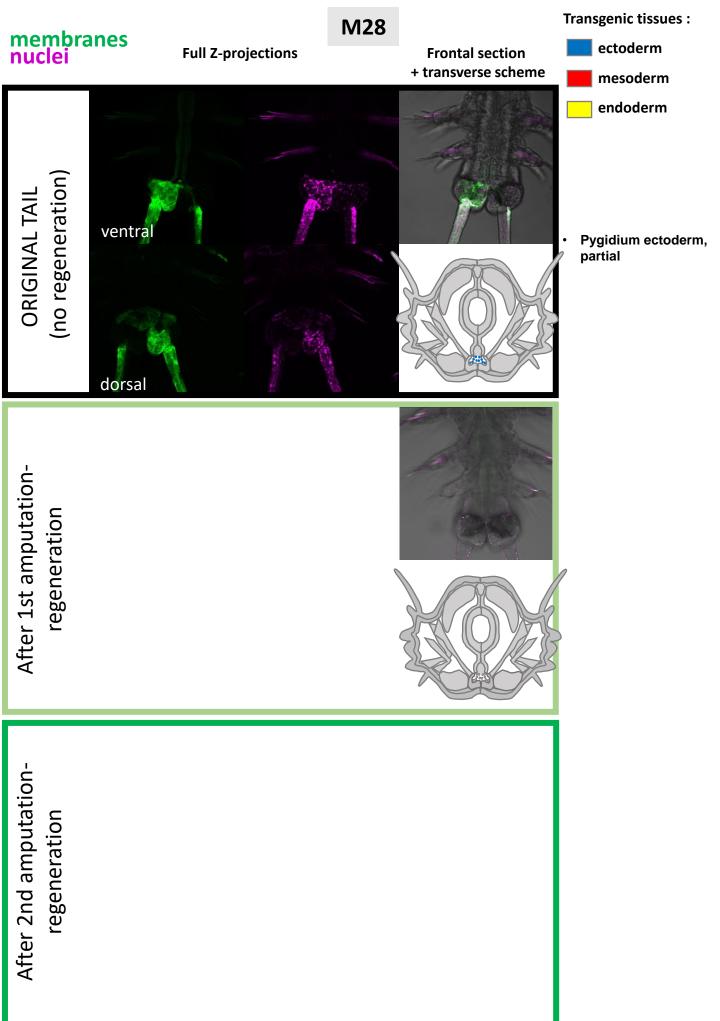


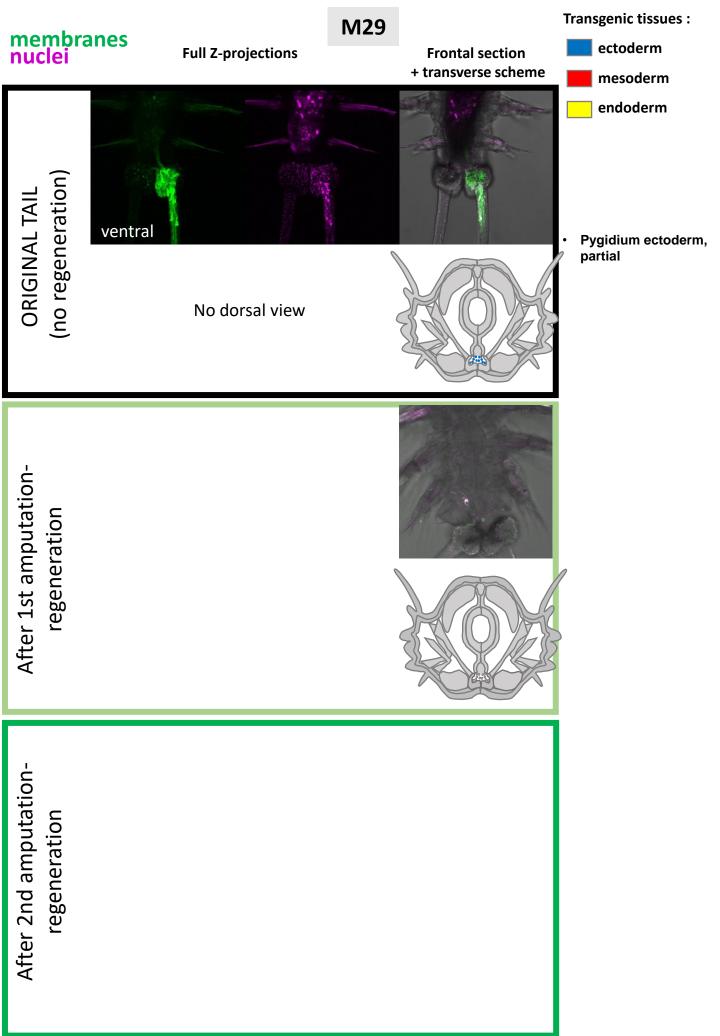


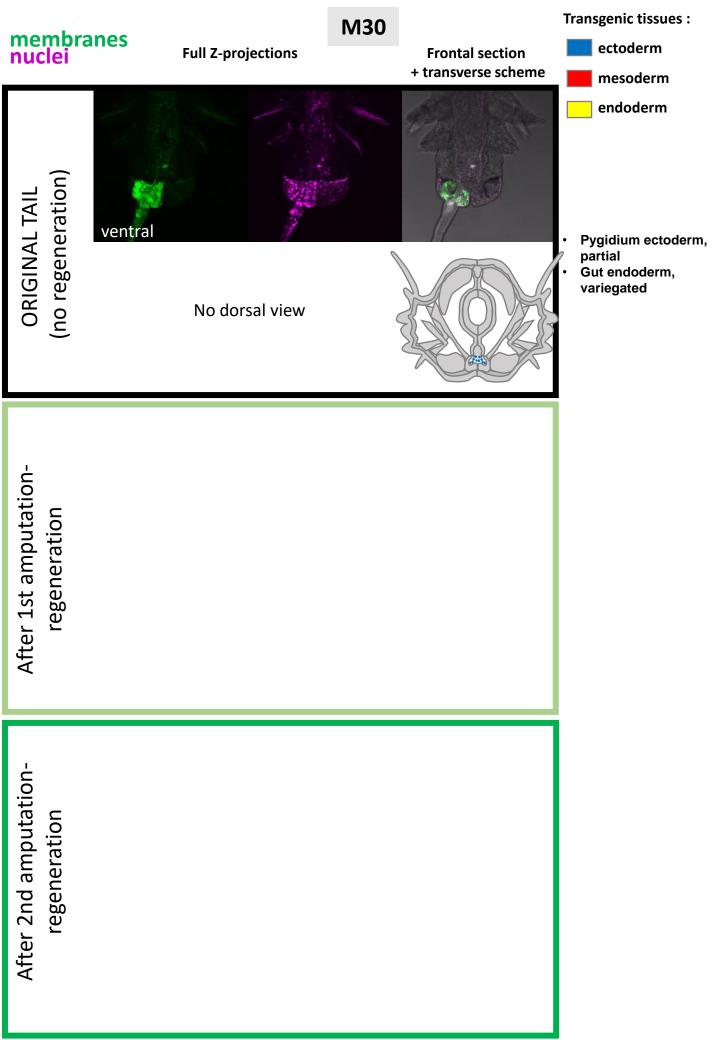


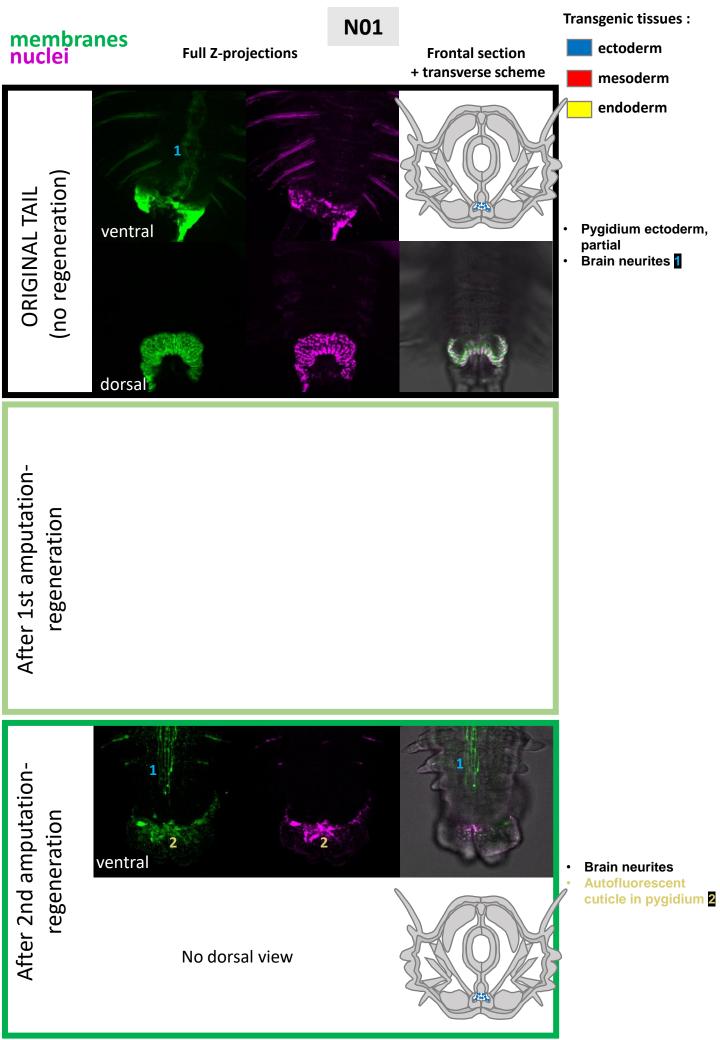


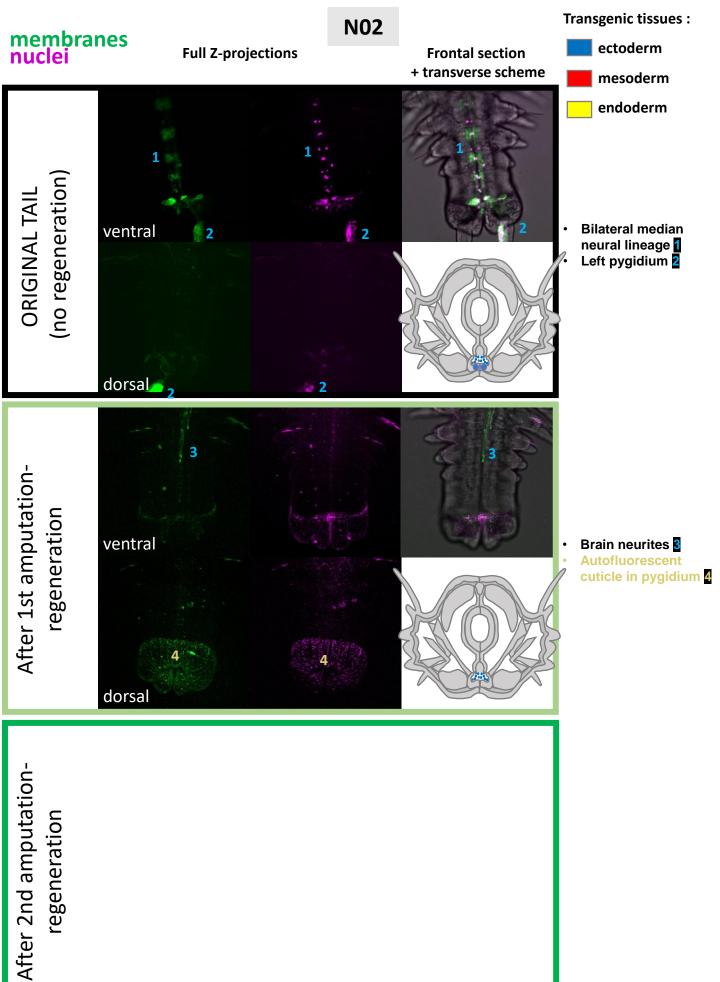


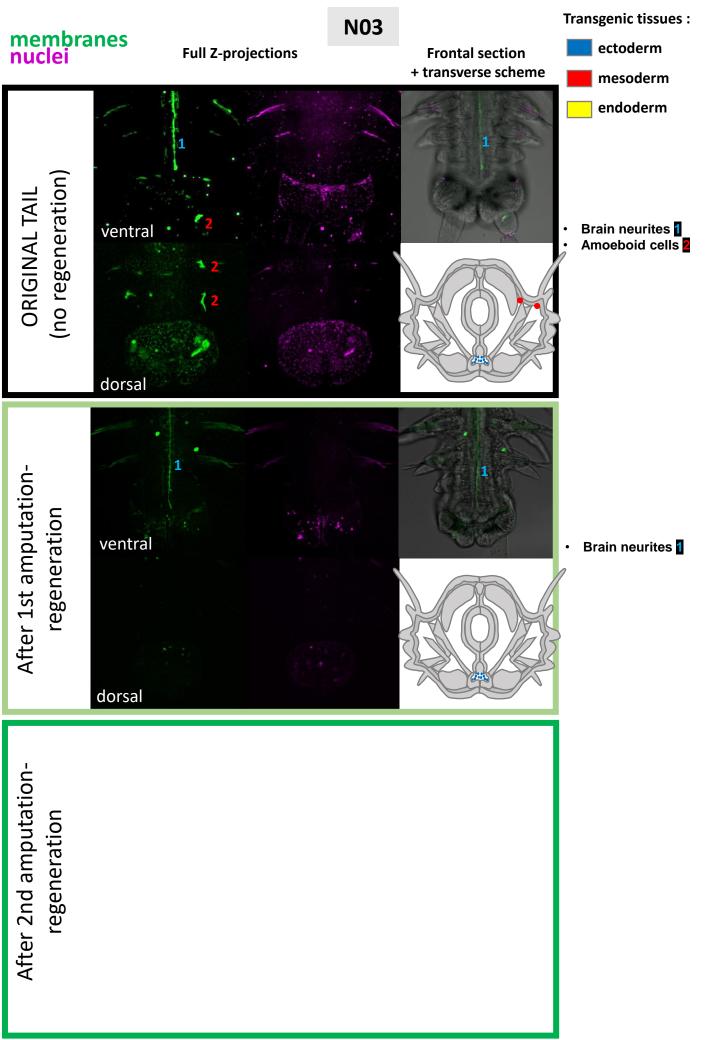


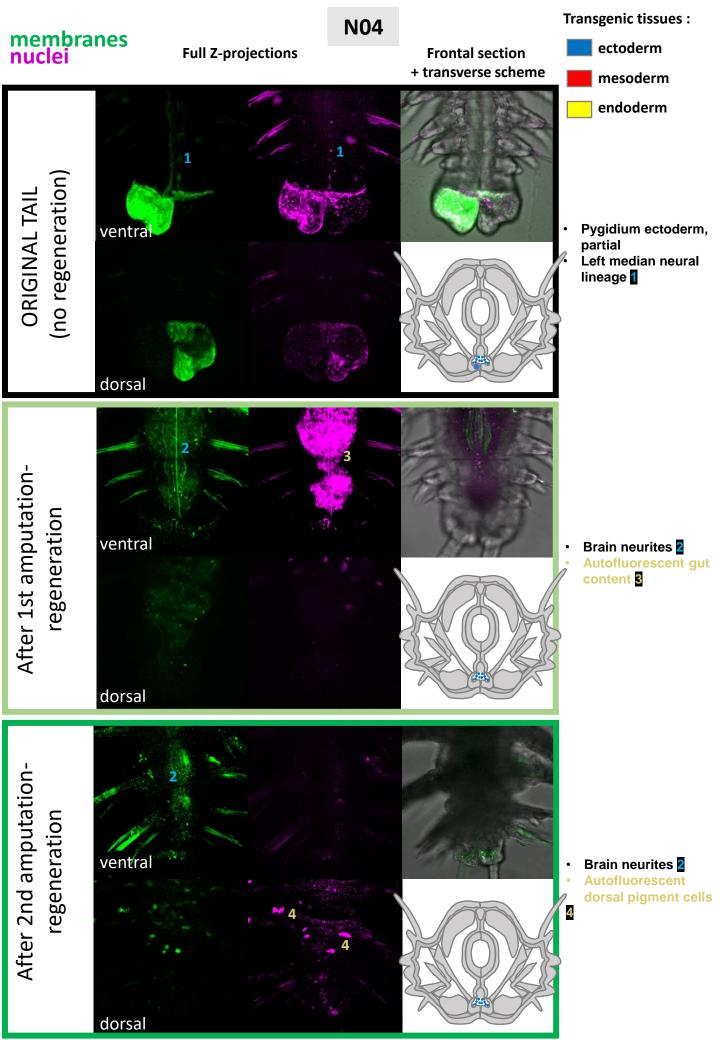


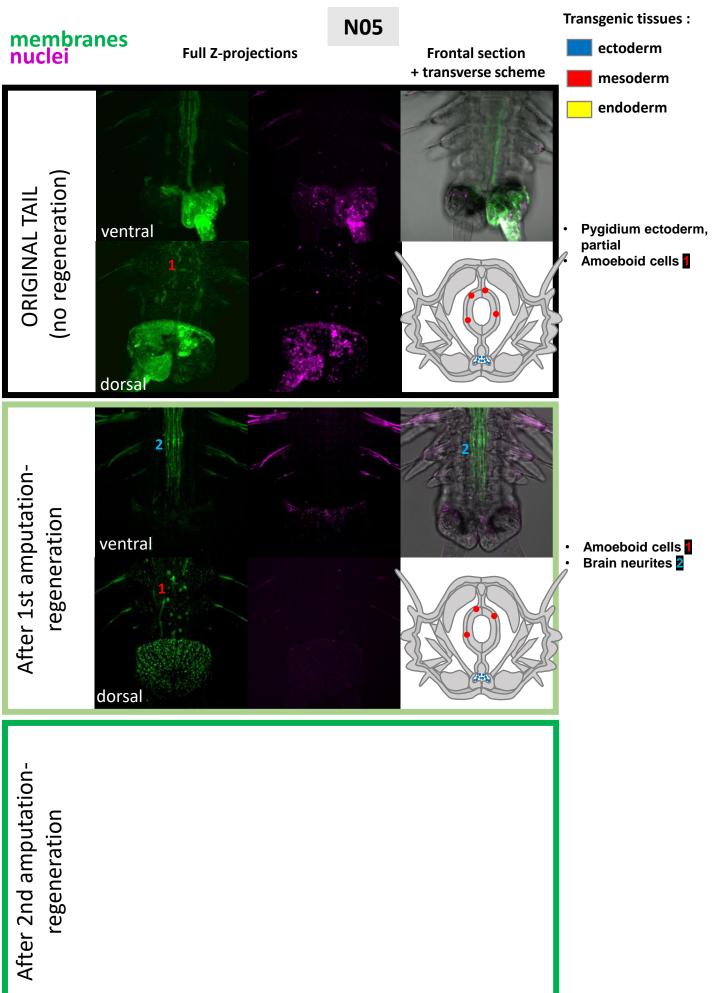


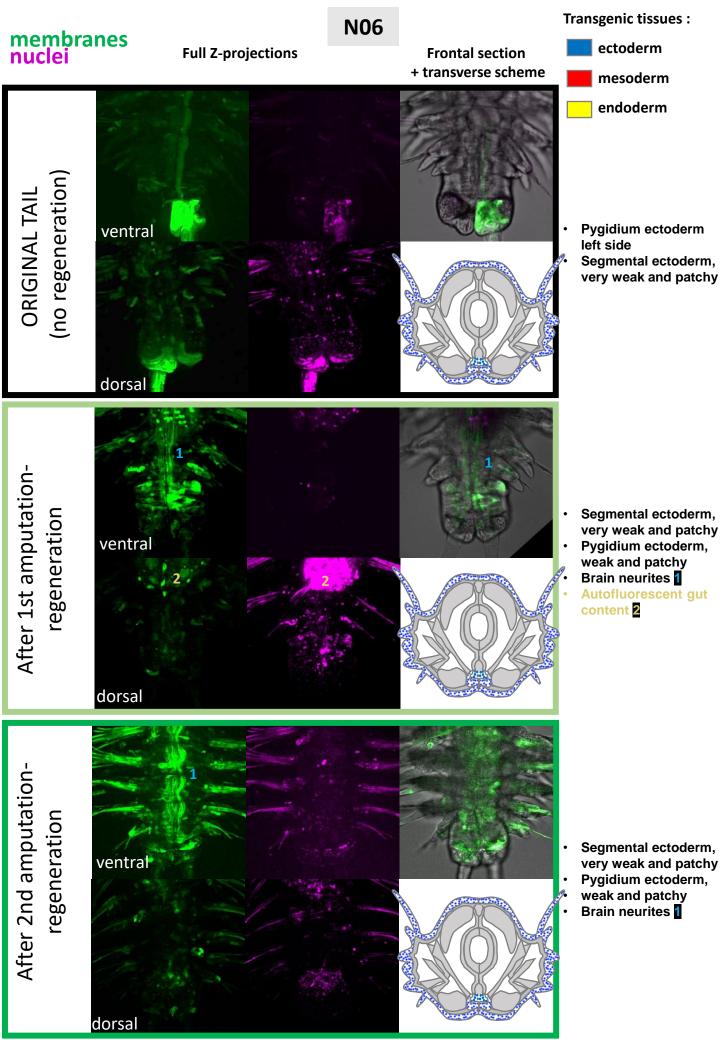


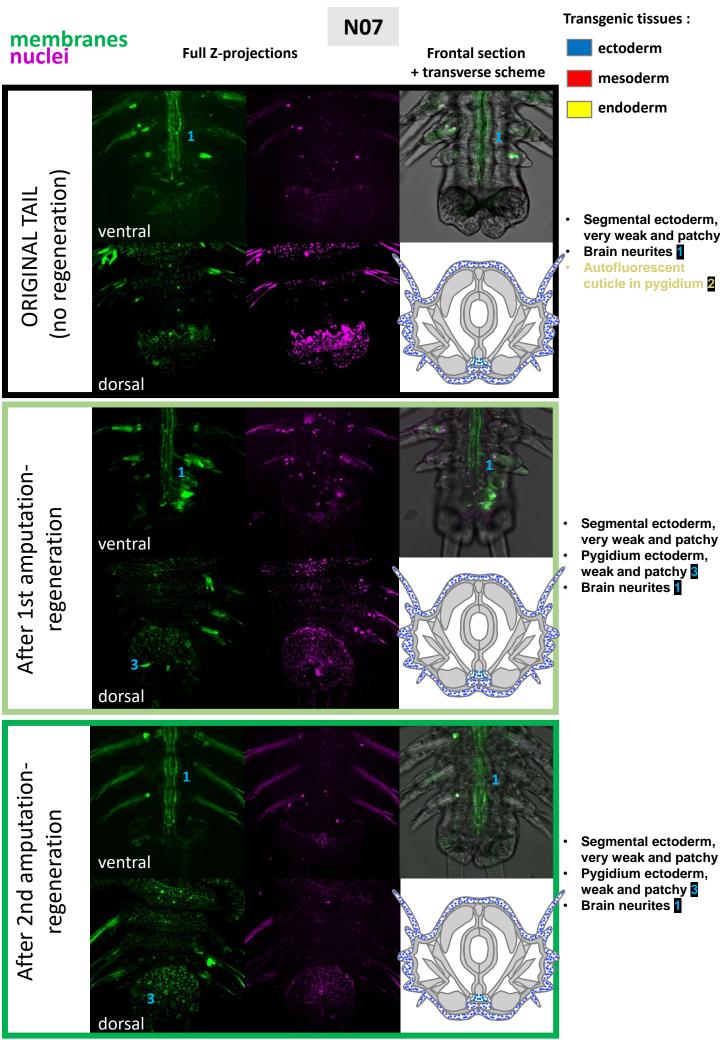


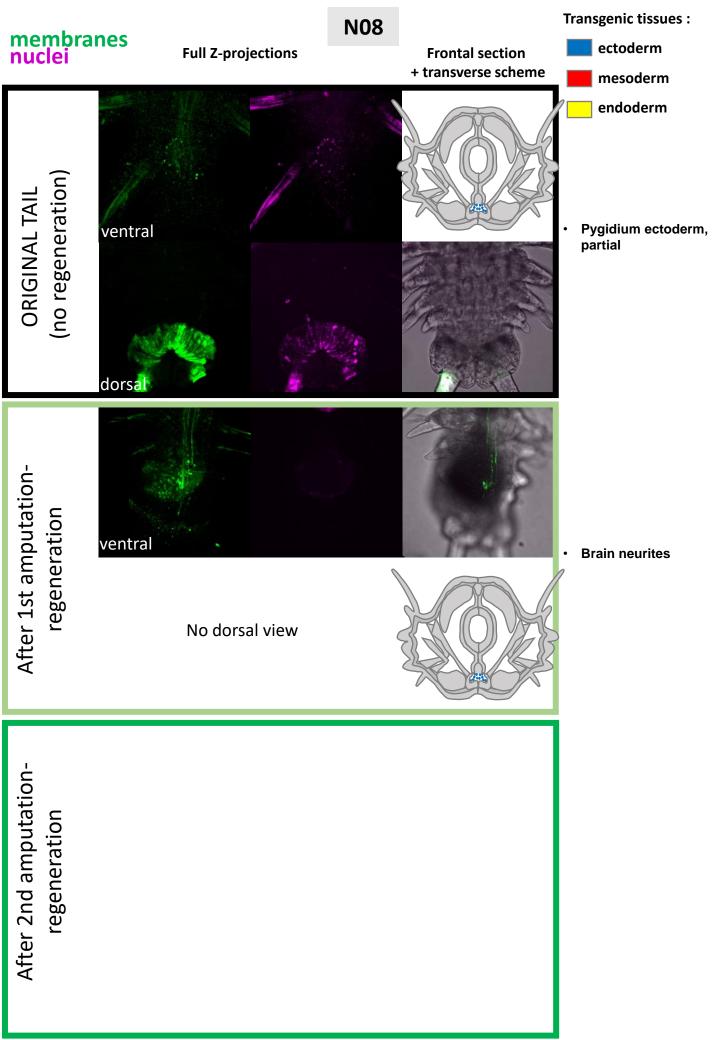


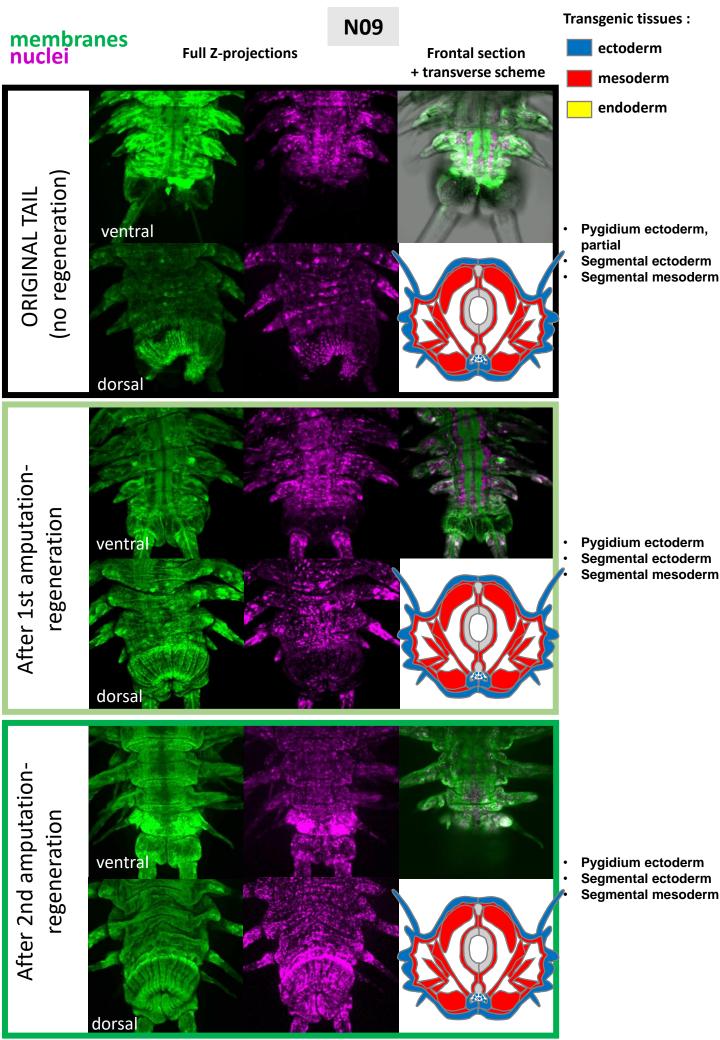


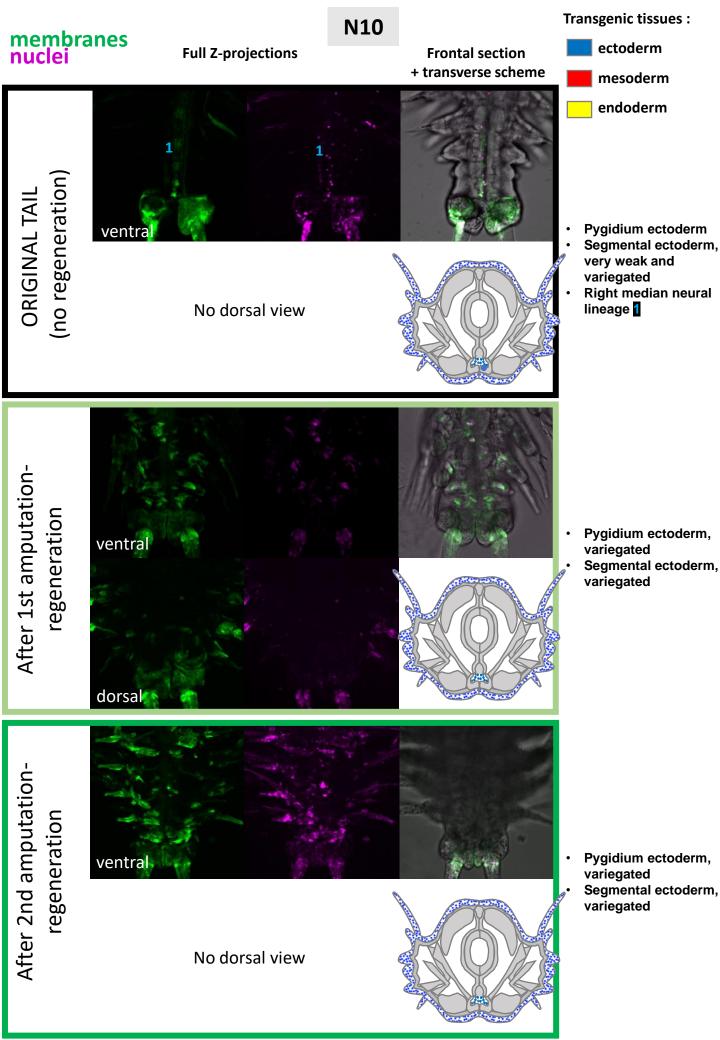


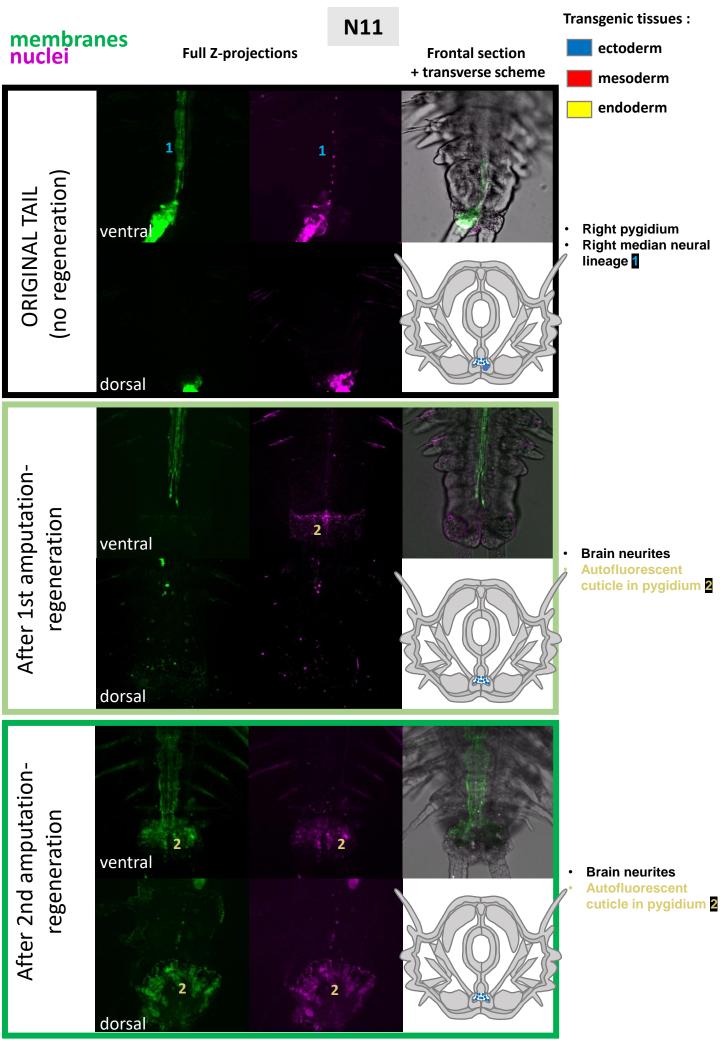


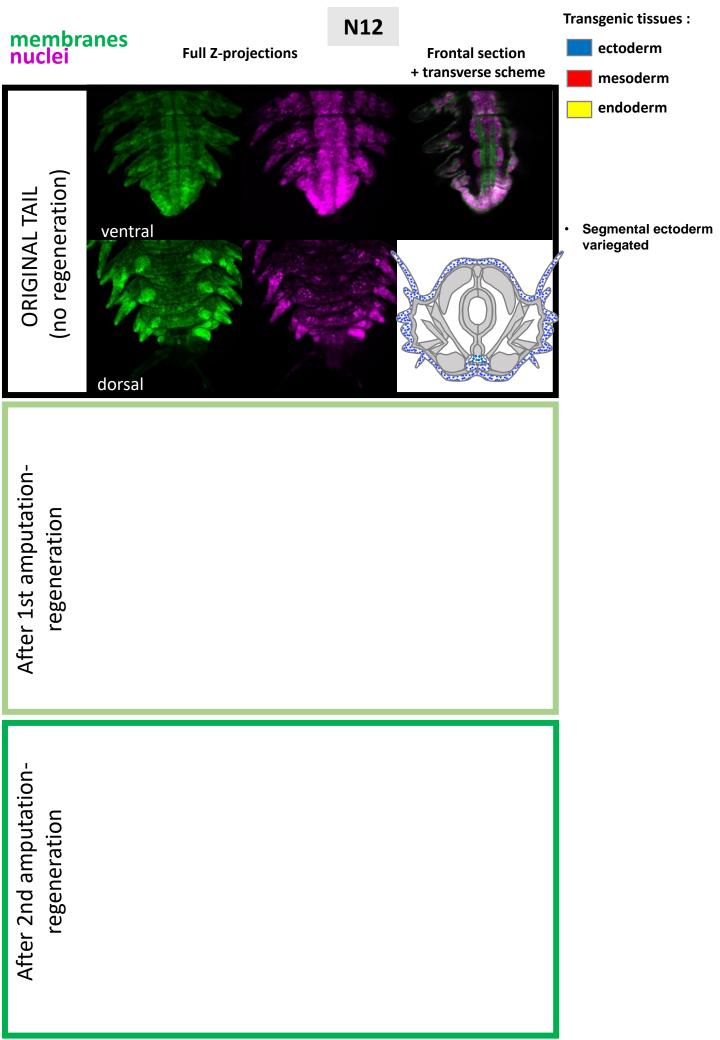


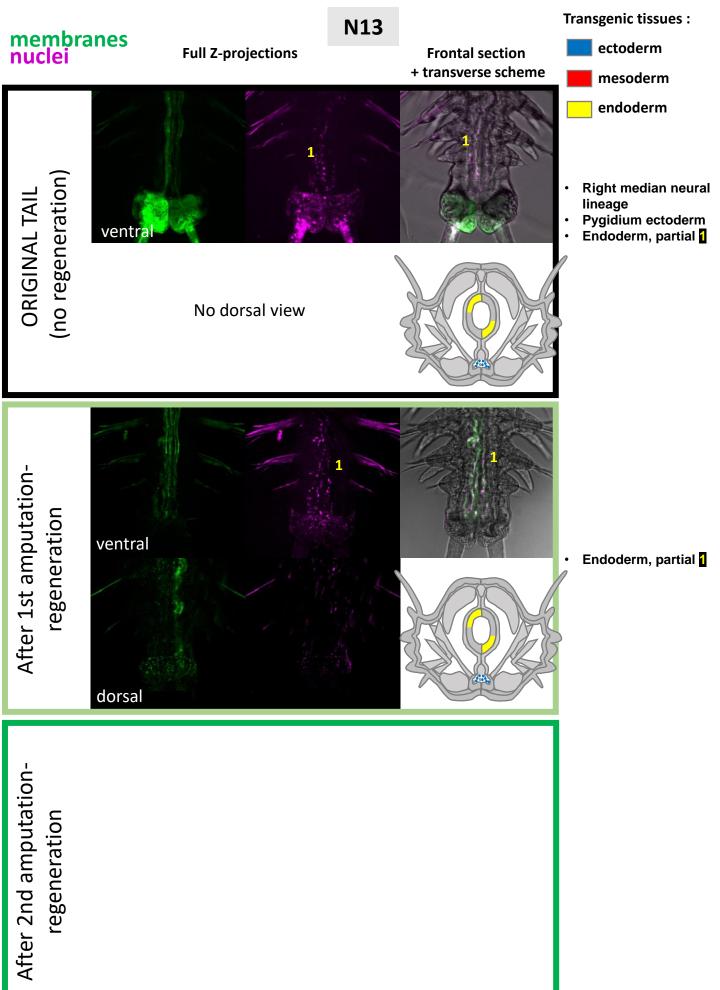


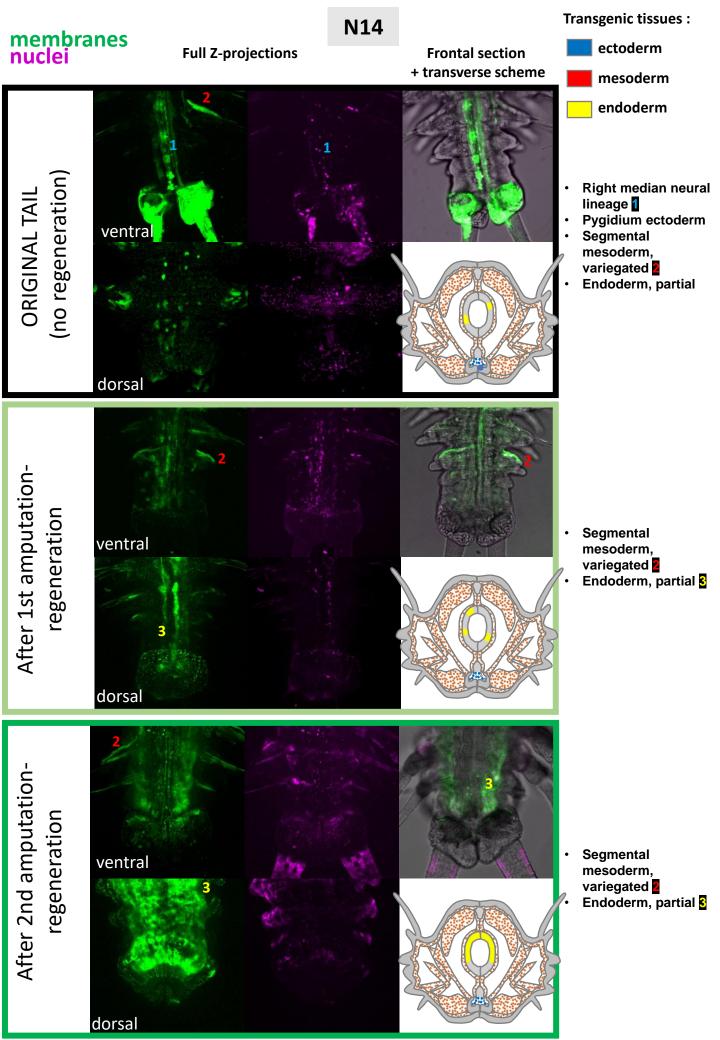


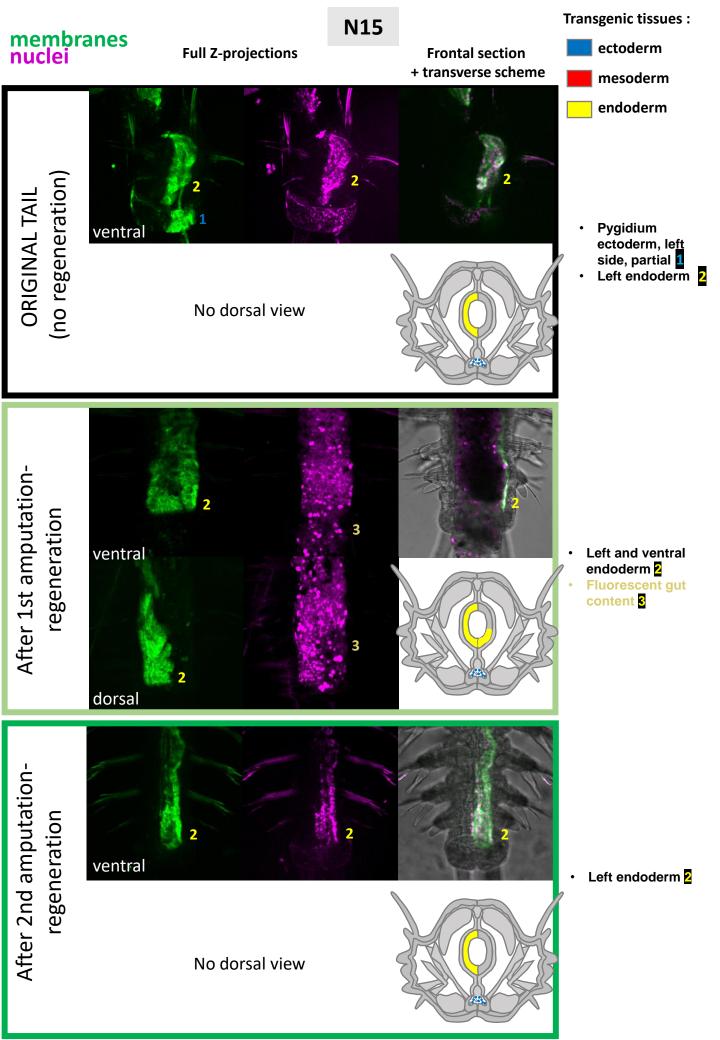


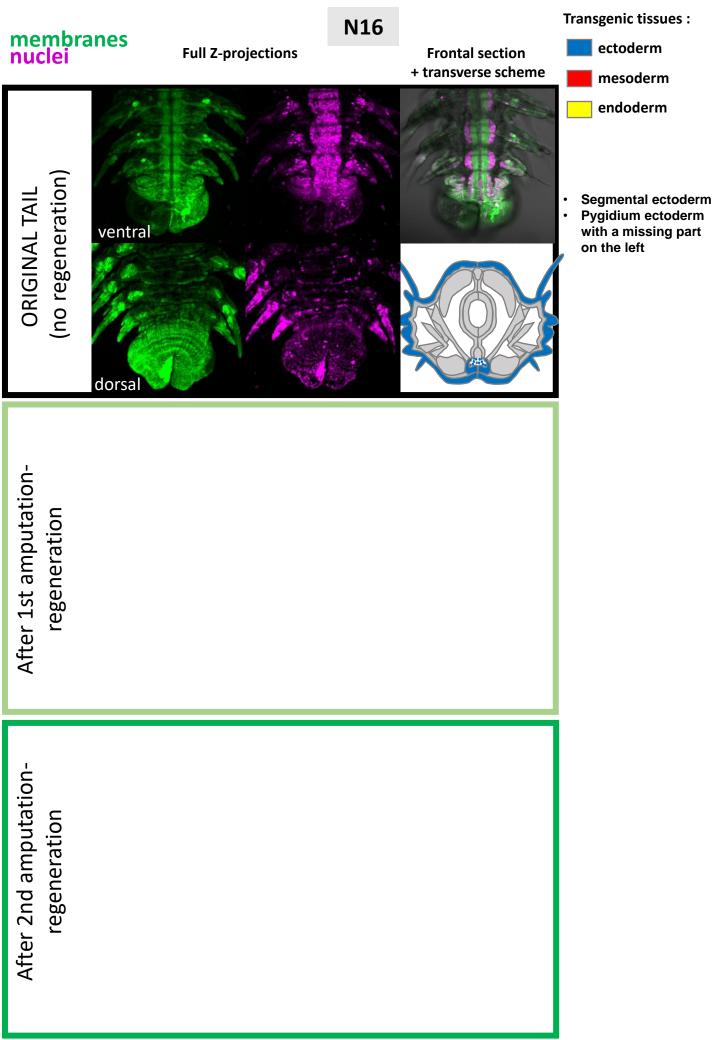


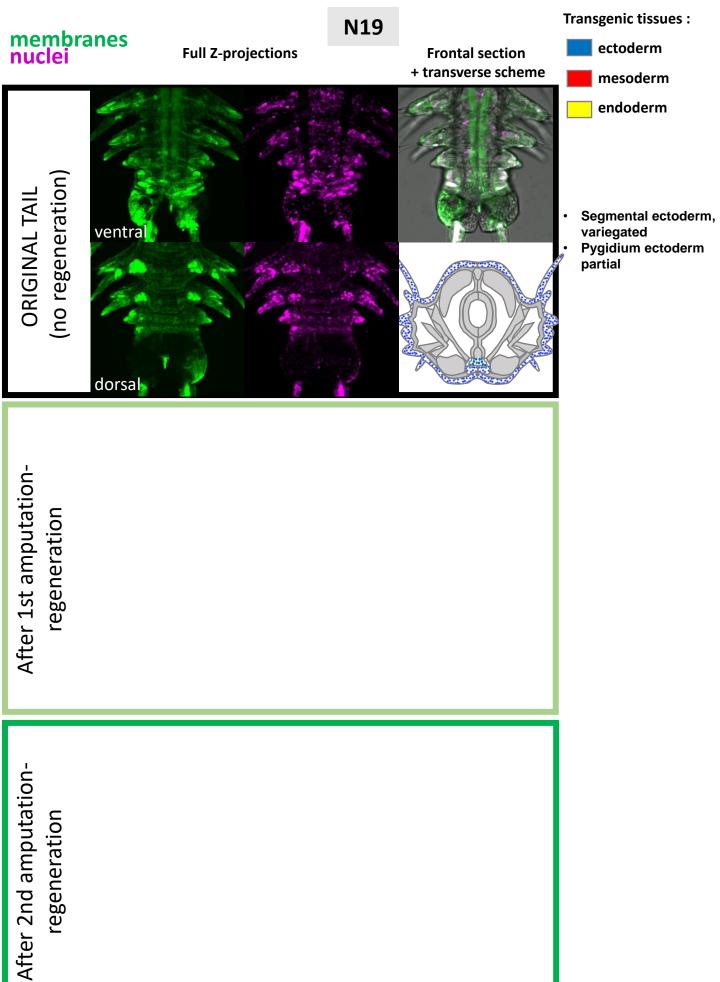


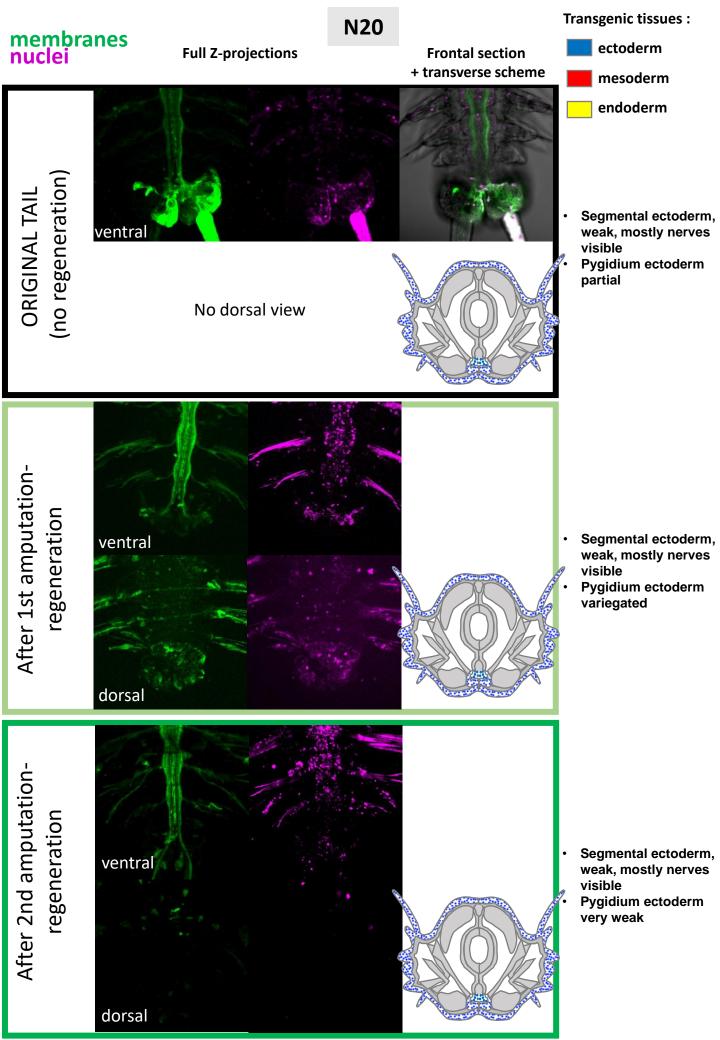


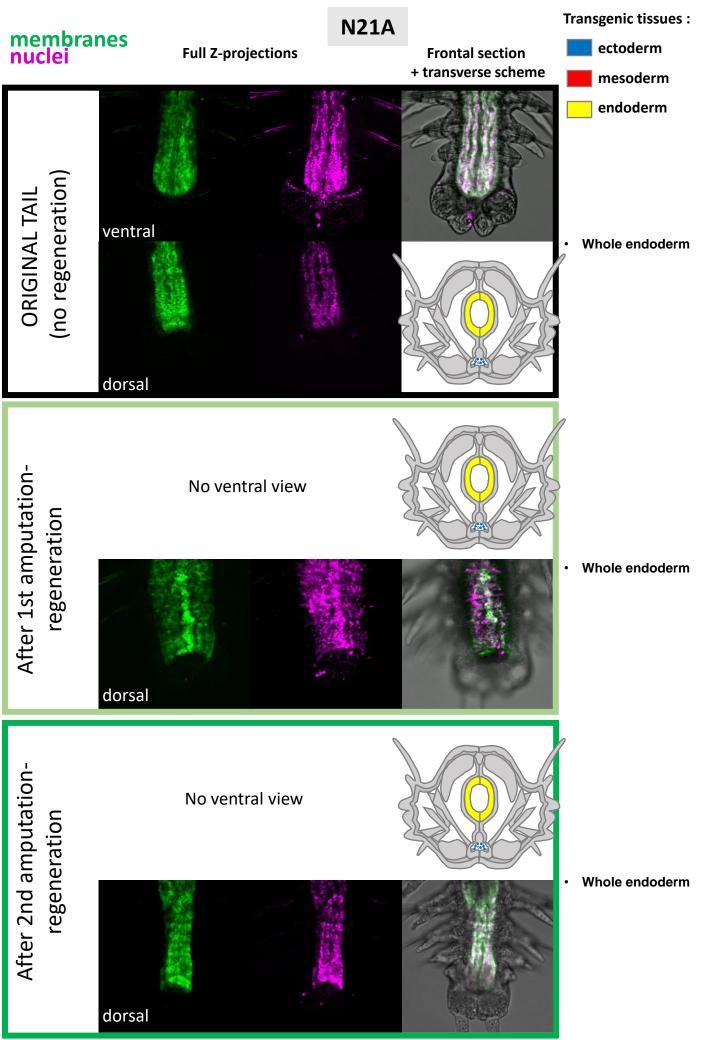


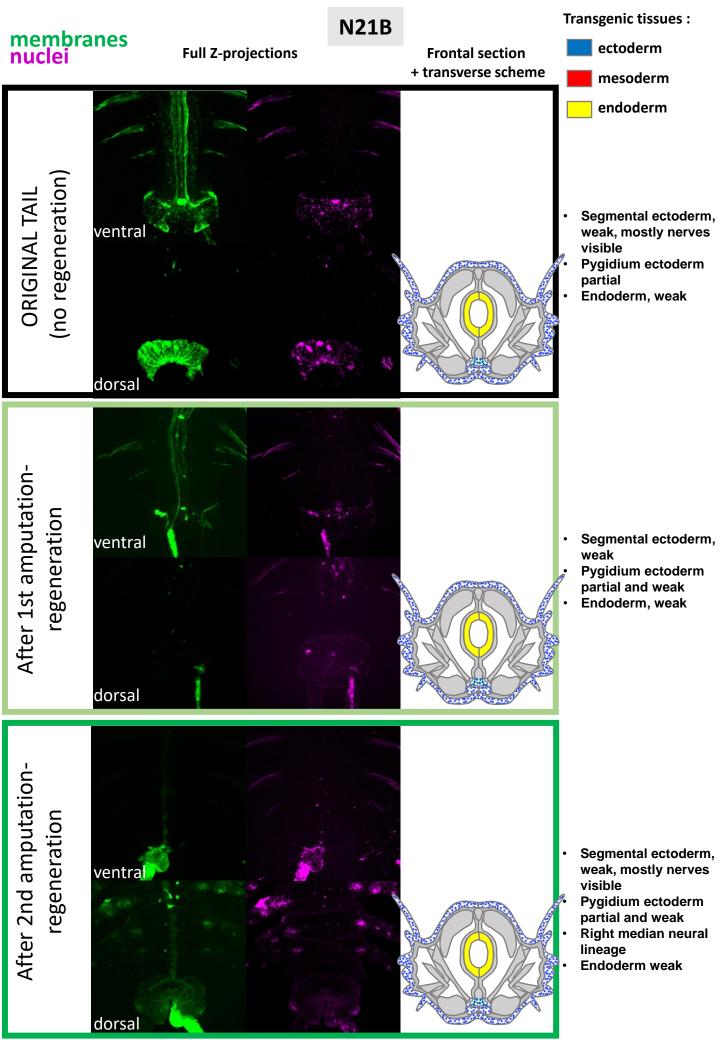


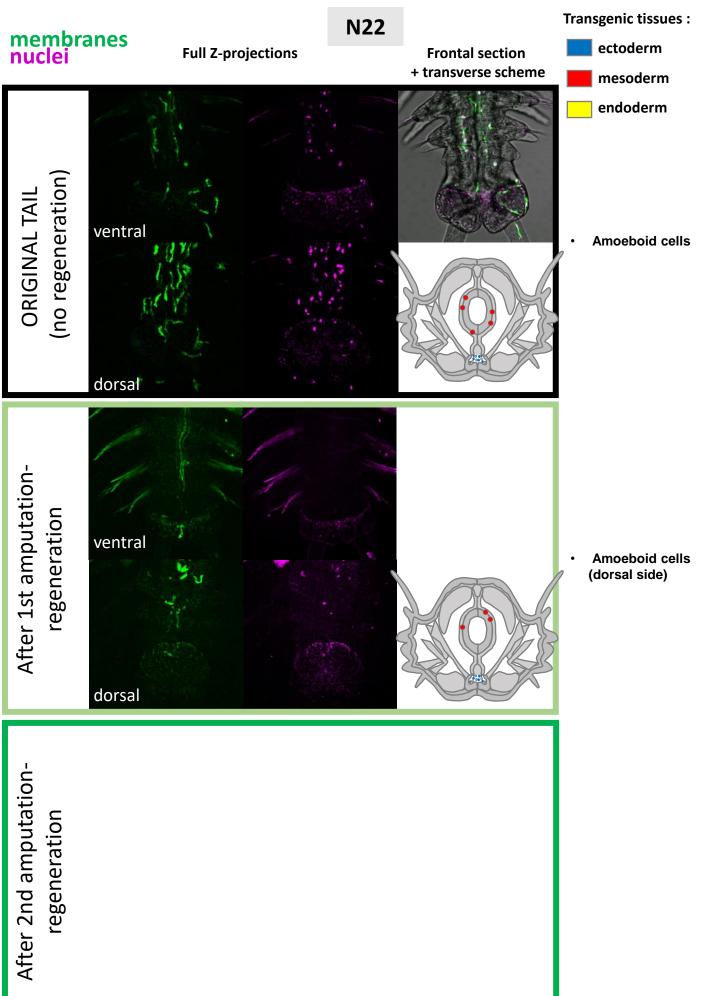


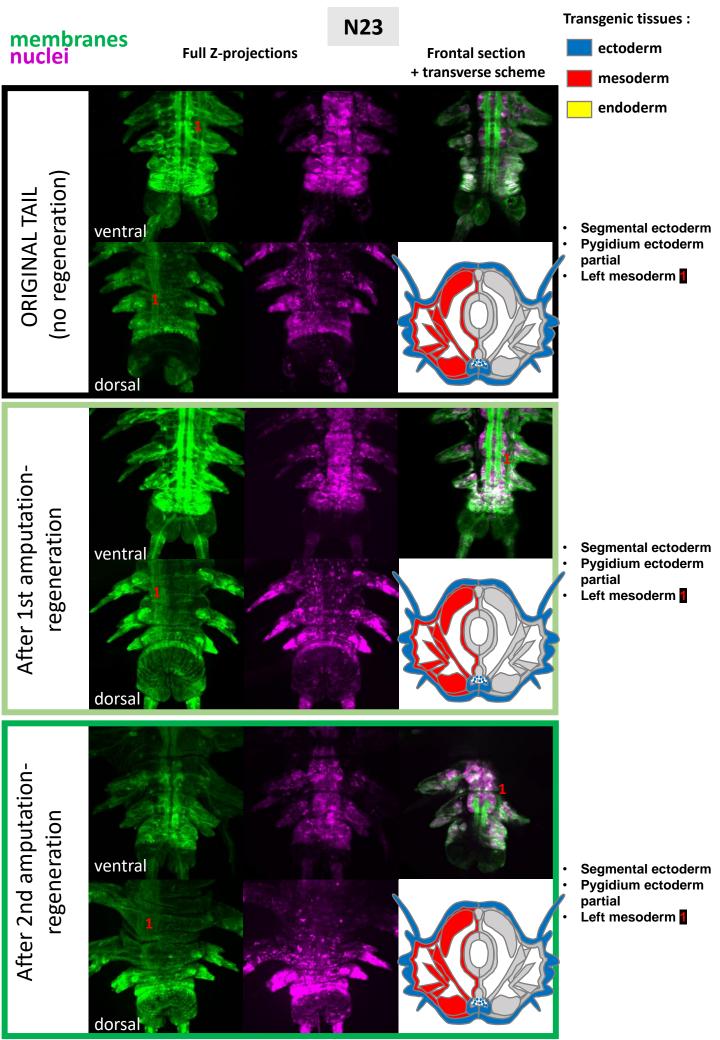


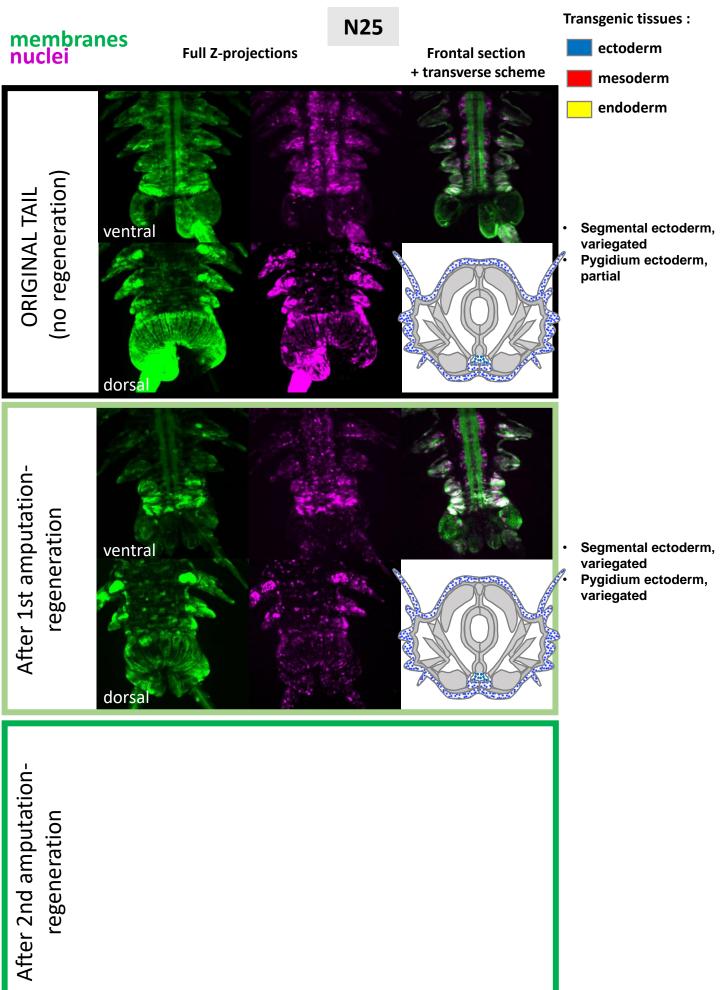


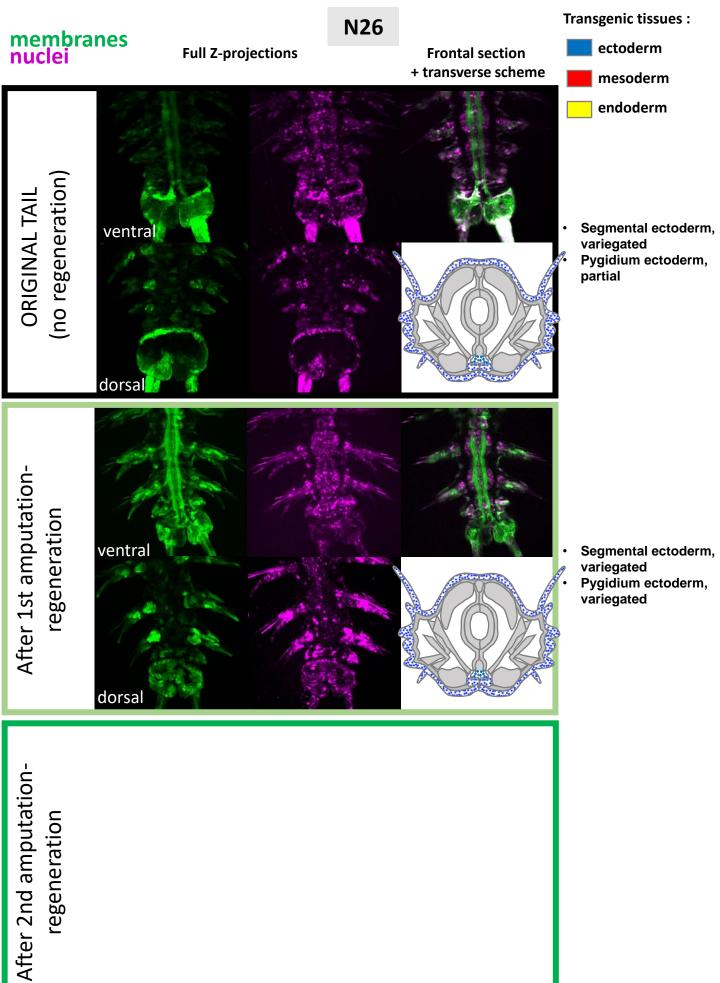


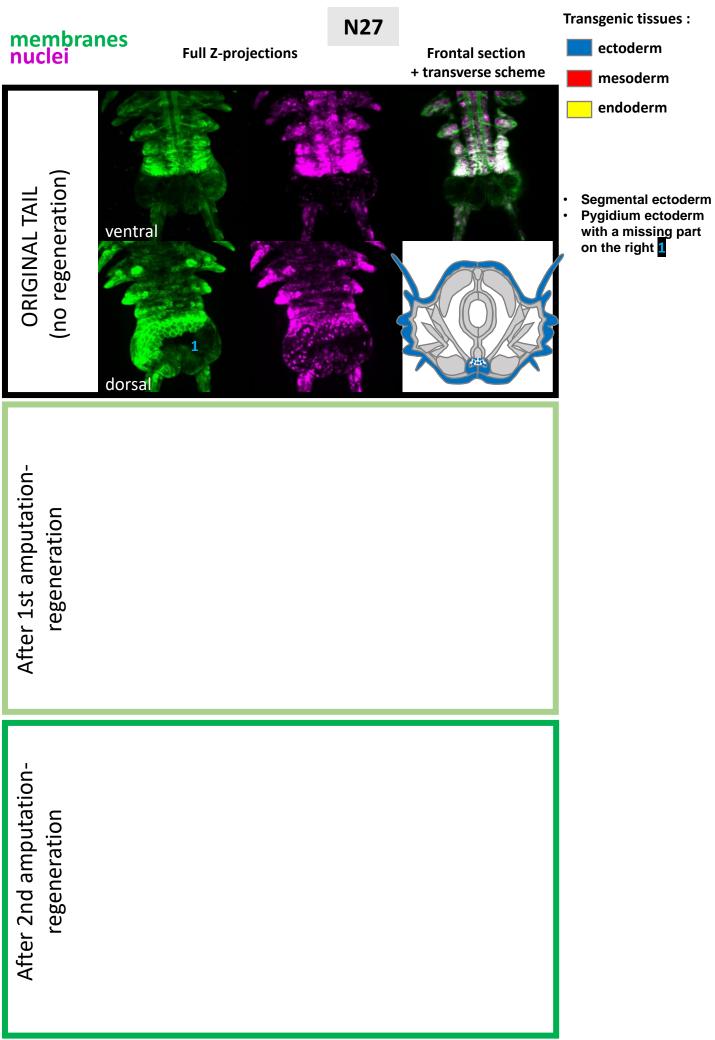


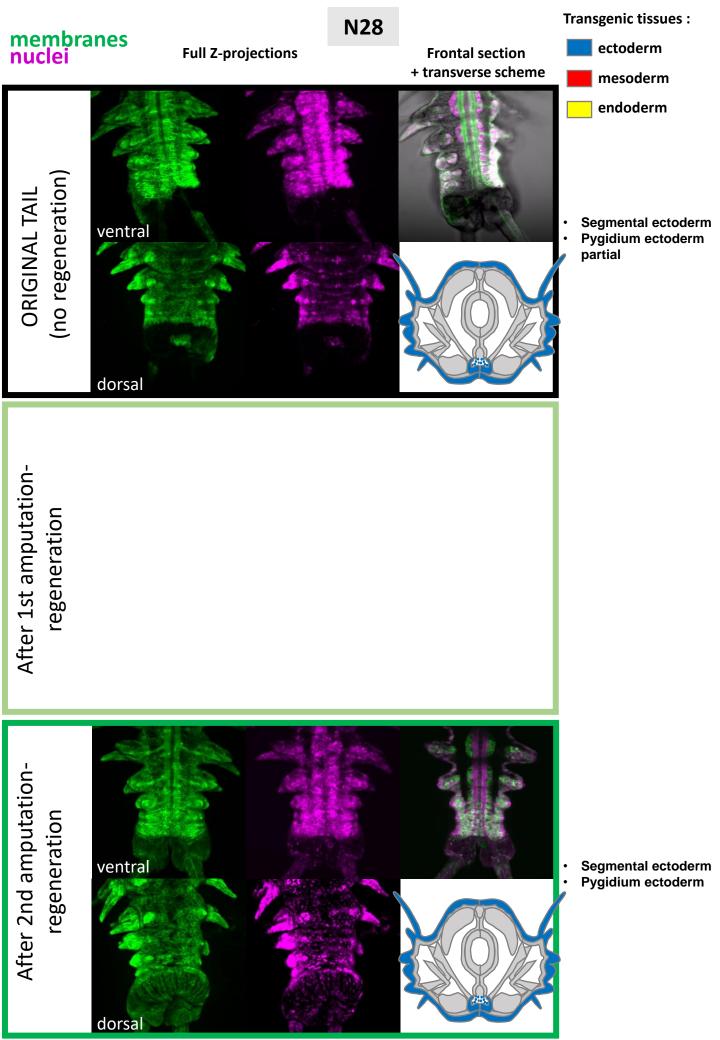


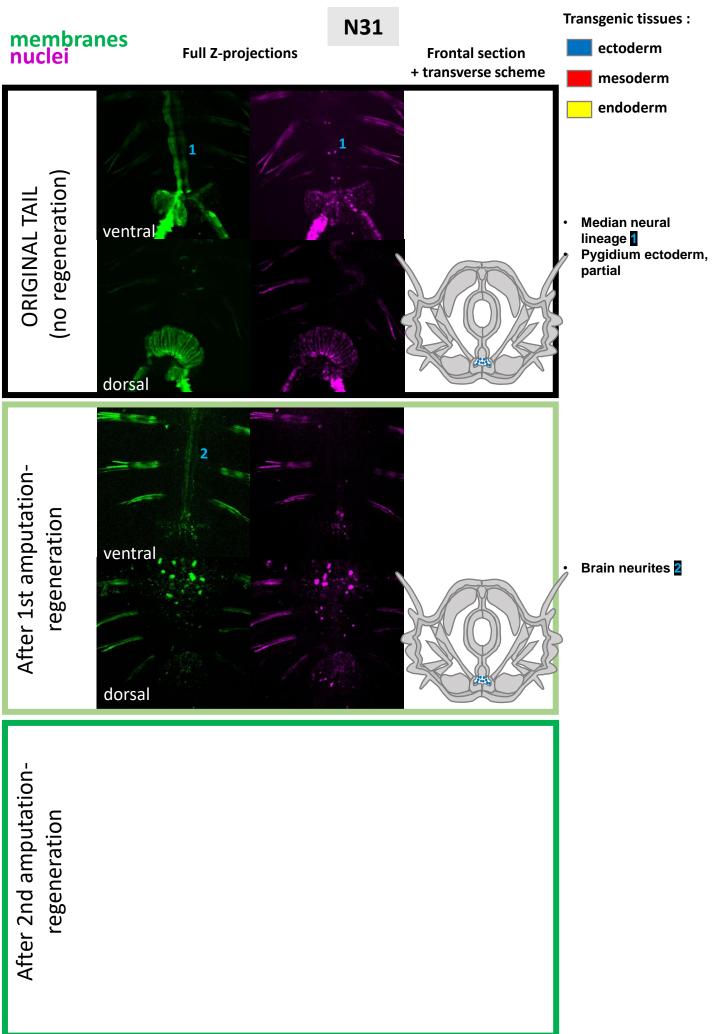


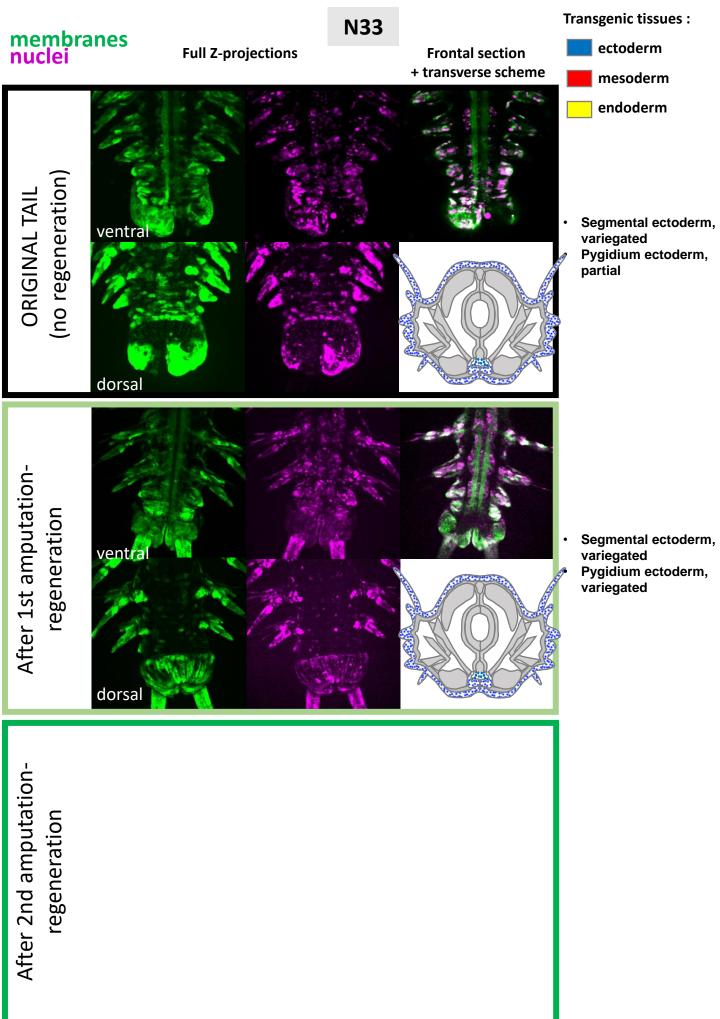


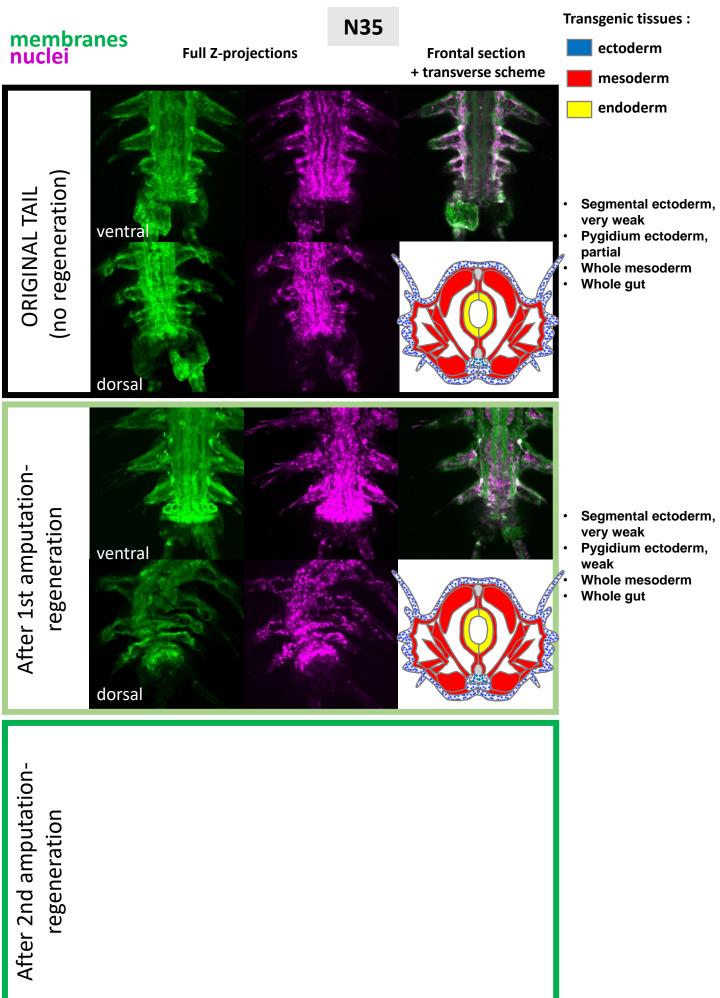


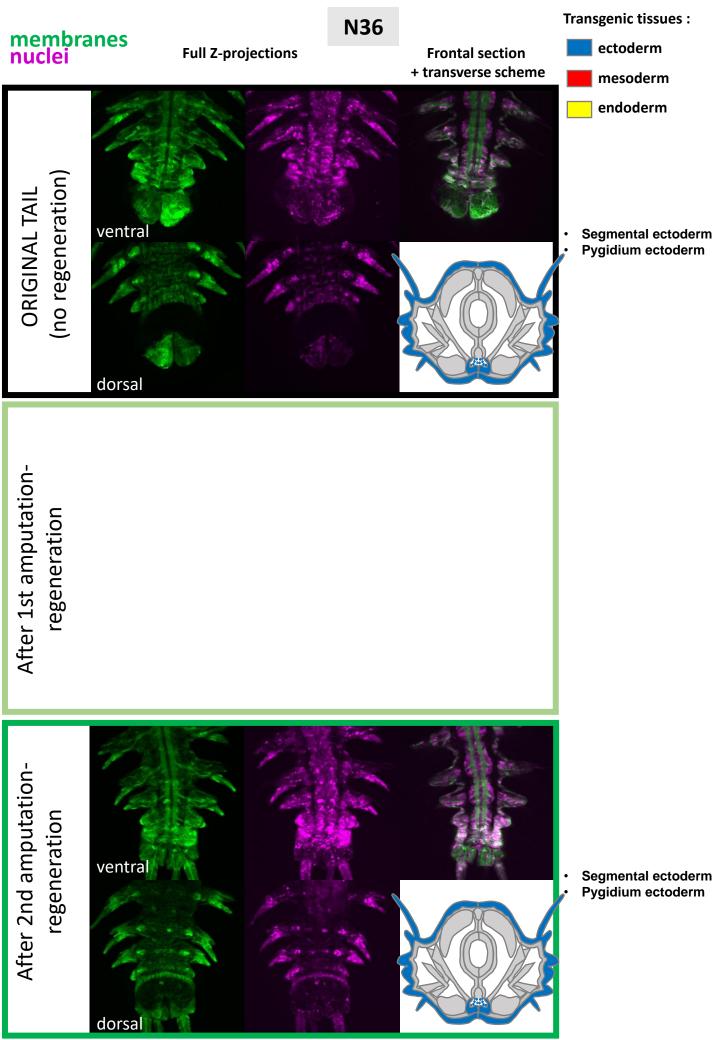


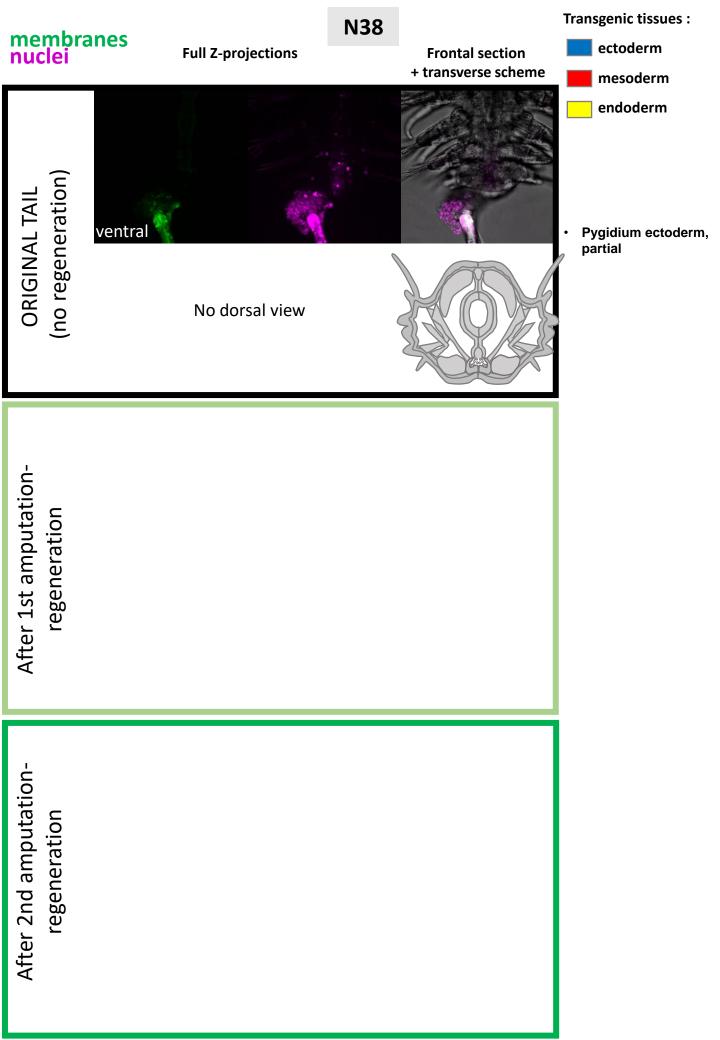


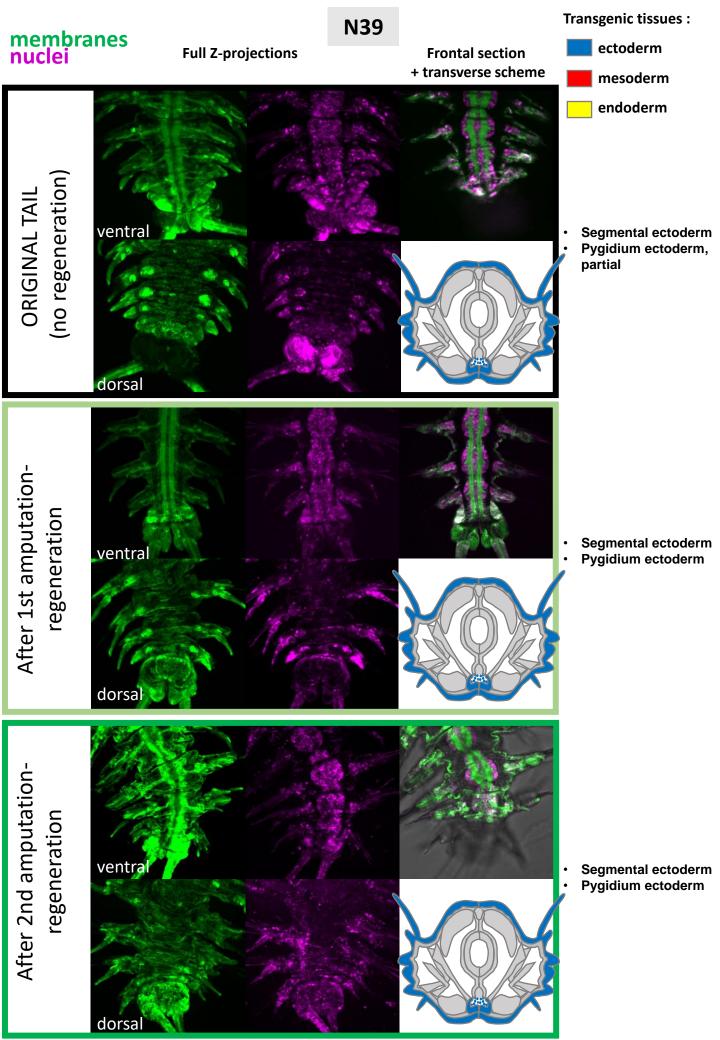


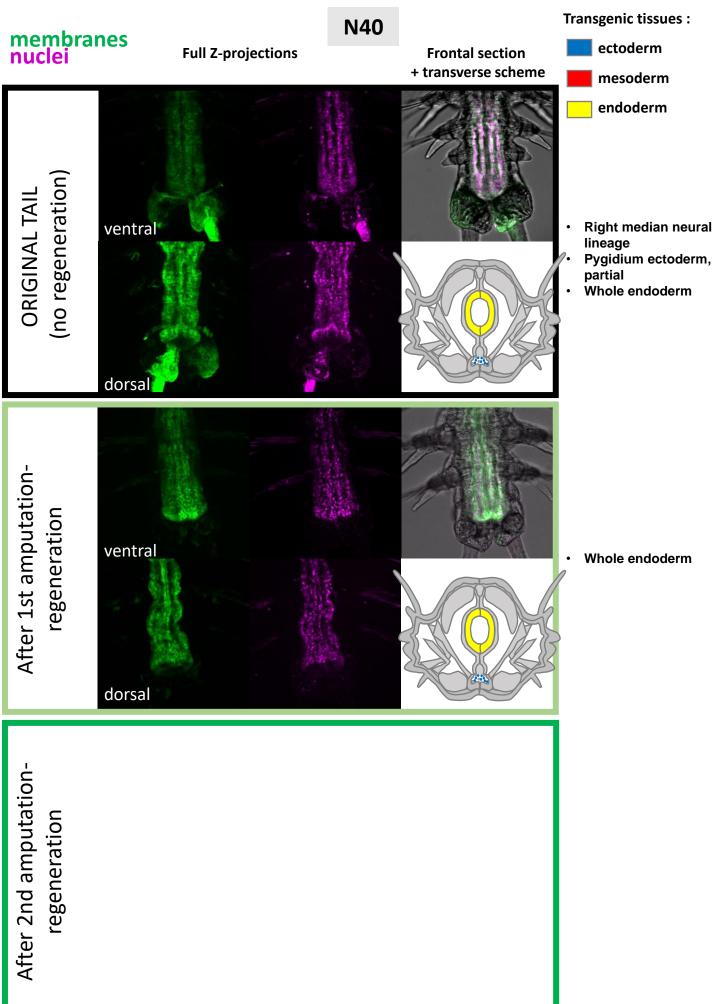


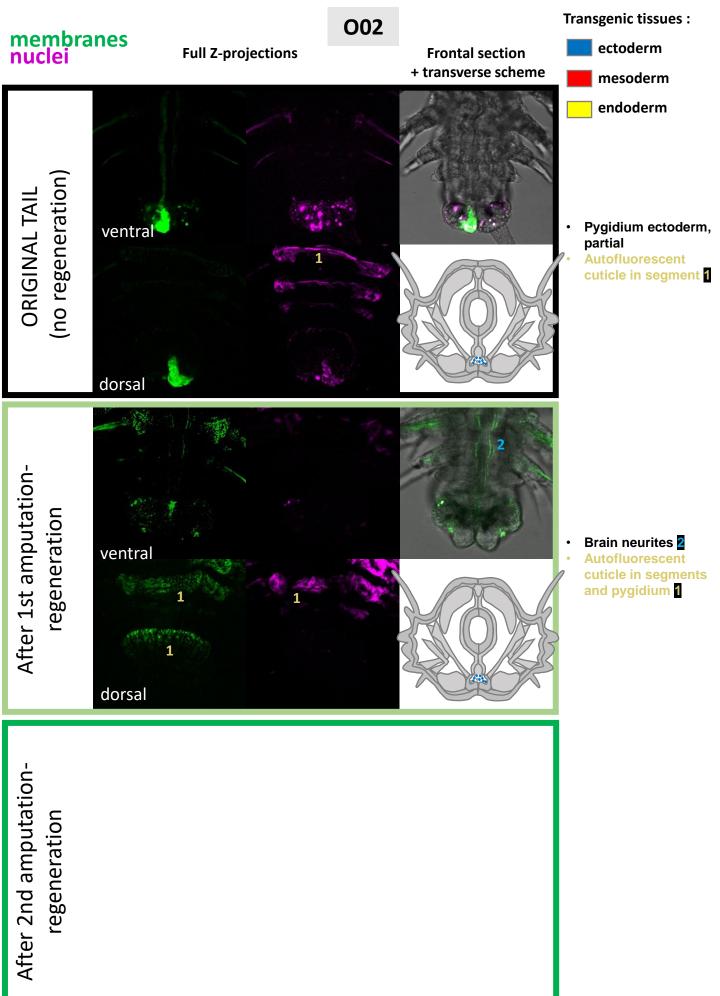


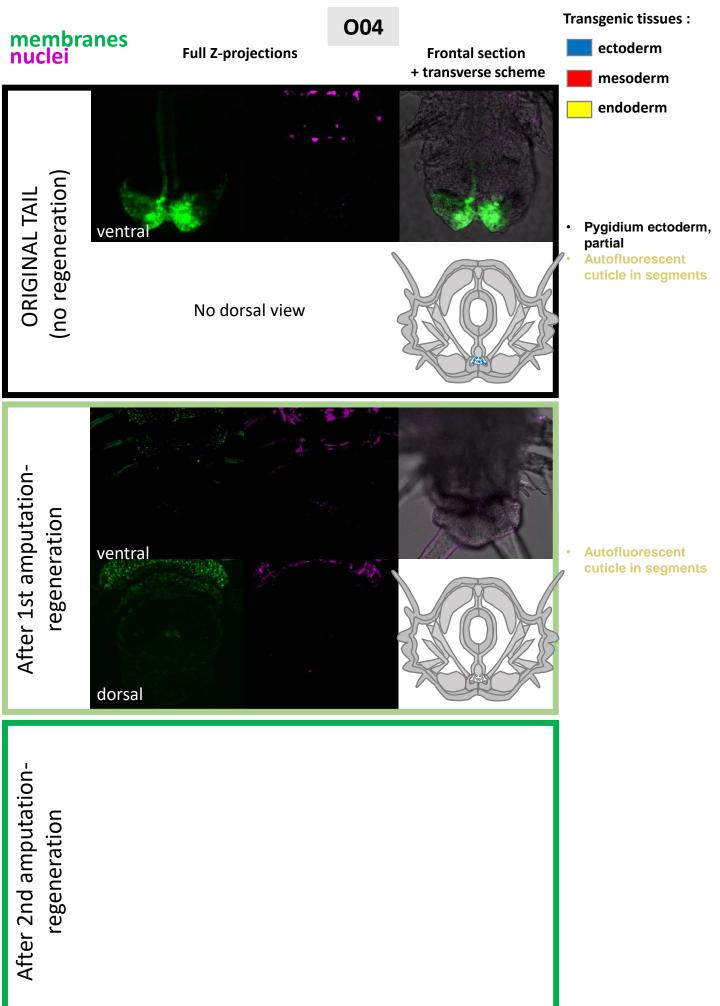


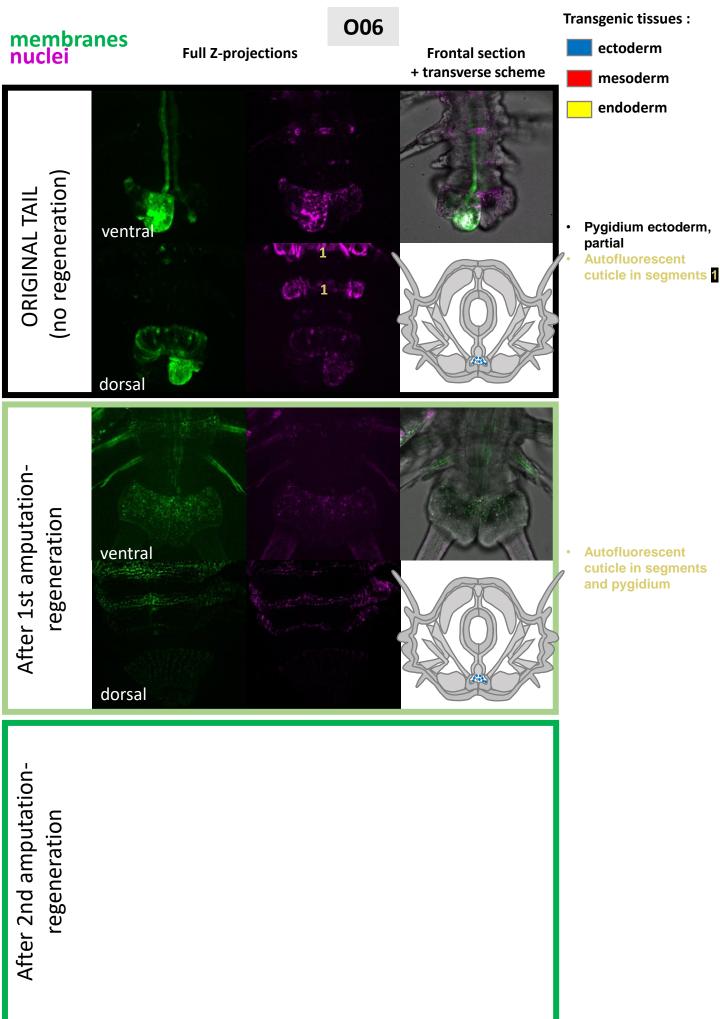


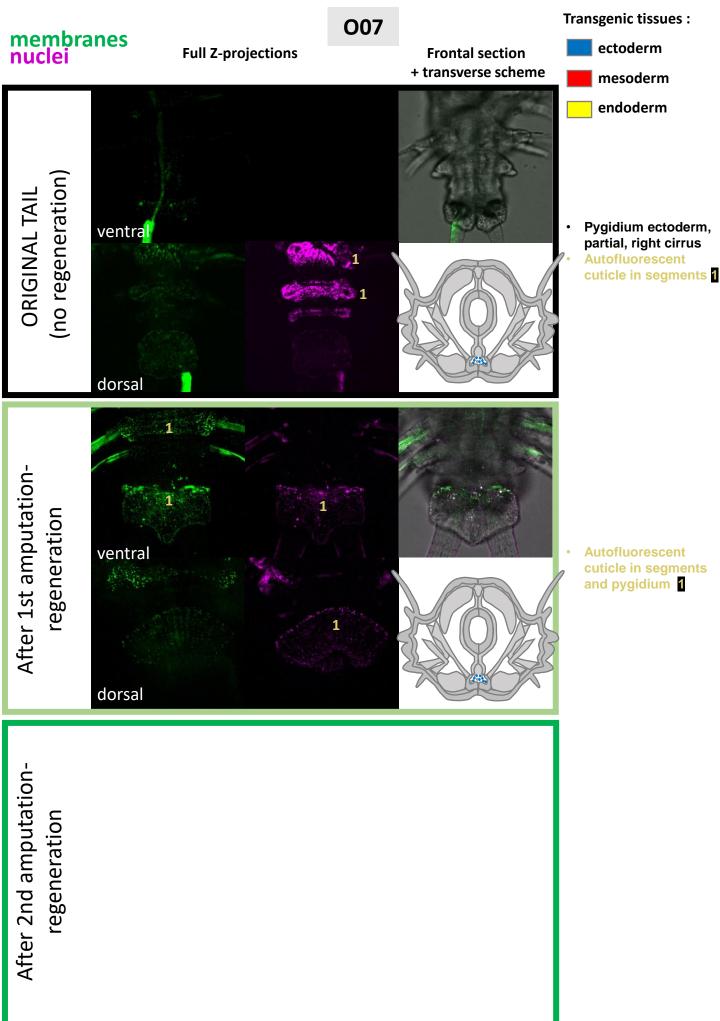


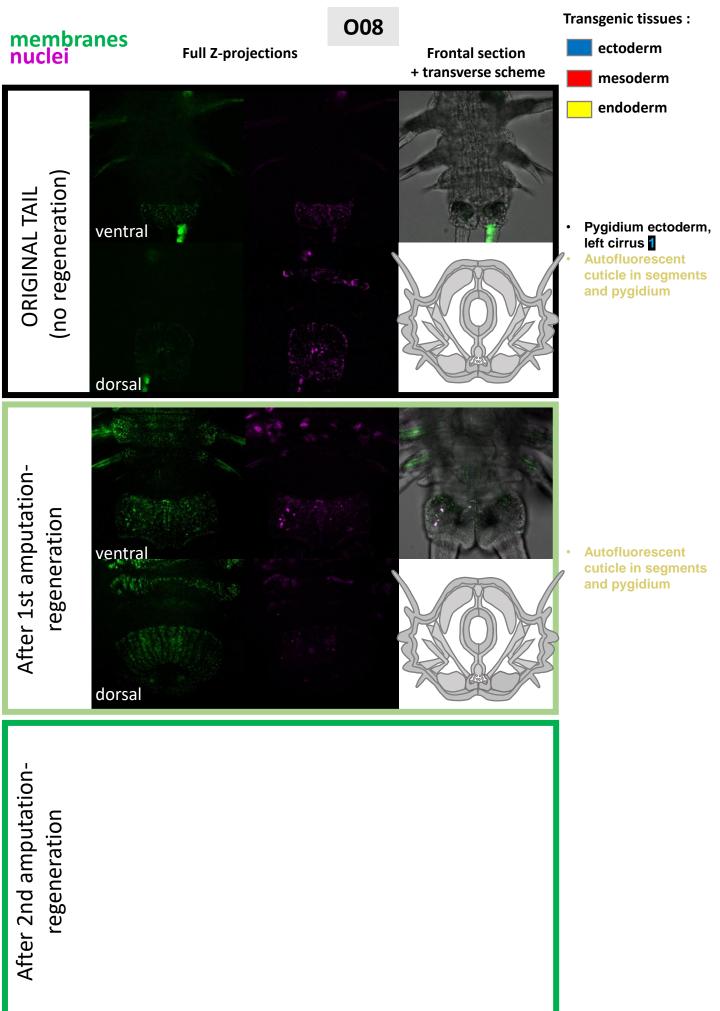


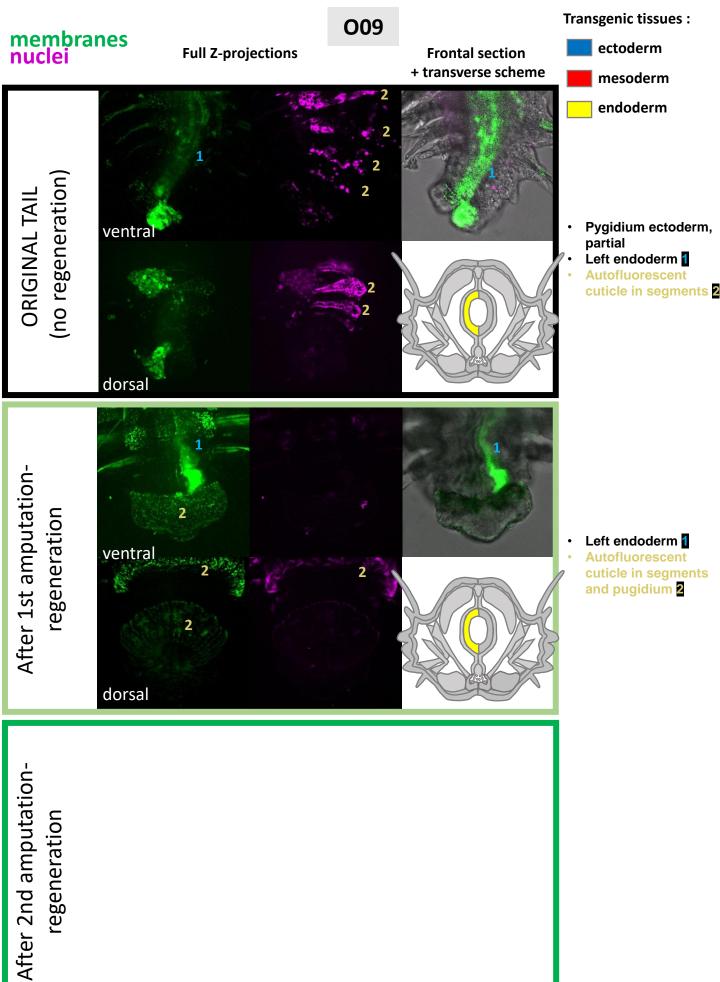


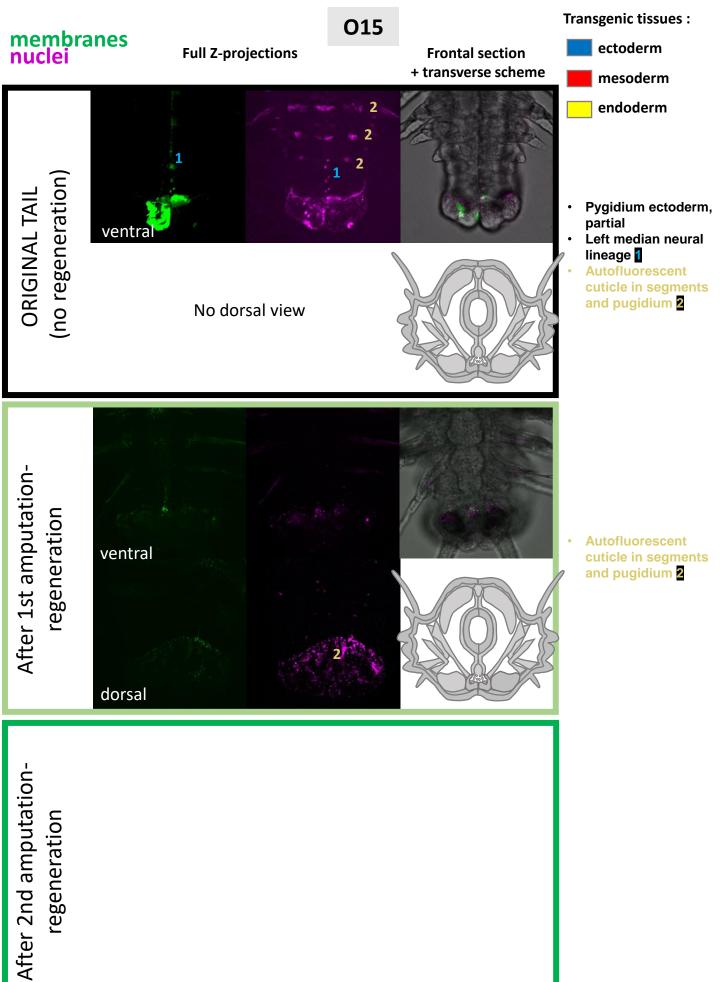


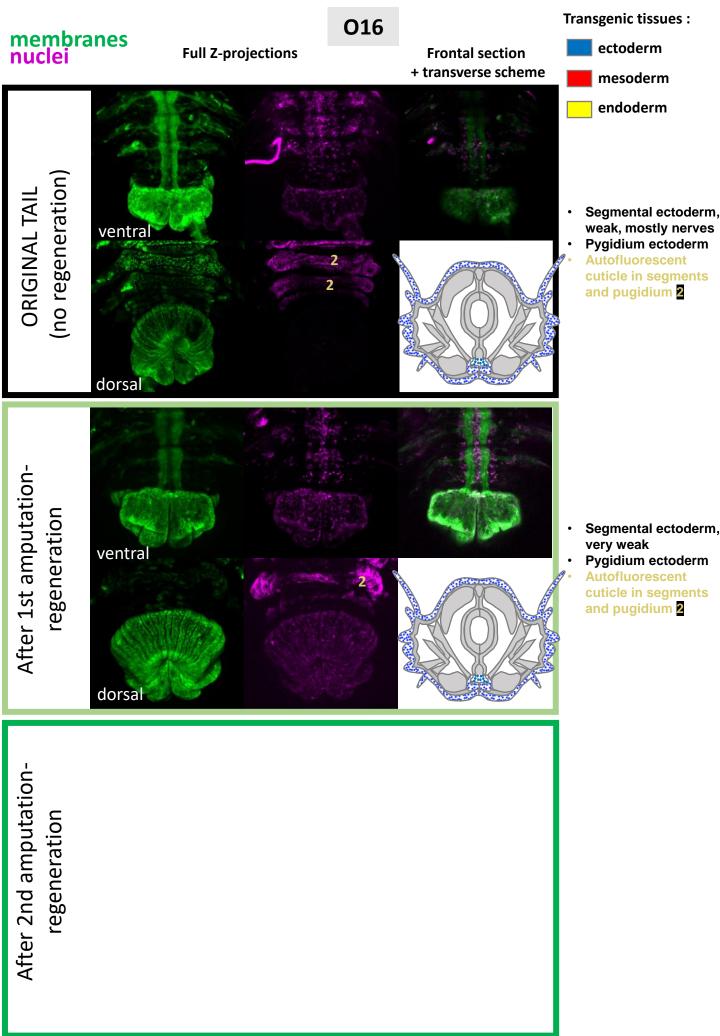












Supplementary data file 7, transgenic clones, part C

	data absent		ubiquitous expression		stochastic expression		partially transgenic
animal ID	segmental ectoderm	median neural	pygidial ectoderm	segmental mesoderm	pygidial mesoderm	endoderm	amoeboid cells
M01 primary							
M01 1st reg.							
M01 2nd reg.							
M03 primary							
M03 1st reg.							
M03 2nd reg.							
M05 primary							
M05 1st reg.							
M05 2nd reg.							
M07 primary							
M07 1st reg.							
M07 2nd reg.							
M08 primary							
M08 1st reg.							
M08 2nd reg.							
M09 primary							
M09 1st reg.	· ·						
M09 2nd reg.							
M10 primary							
M10 1st reg.							
M10 2nd reg.							
M11 primary							
M11 1st reg.							
M11 2nd reg.							
M15 primary							
M15 1st reg.							
M15 2nd reg.							
M18 primary							
M18 1st reg.							
M18 2nd reg.							
M19 primary							
M19 1st reg.							
M19 2nd reg.							
M20 primary							
M20 1st reg.							
M20 2nd reg.							
M21 primary							
M21 1st reg.							
M21 2nd reg.							
M22 primary							
M22 1st reg.							
M22 2nd reg.							

animal ID	segmental ectoderm	median neural	pygidial ectoderm	segmental mesoderm	pygidial mesoderm	endoderm	amoeboid cells
M23 primary							
M23 1st reg.							
M23 2nd reg.							
M24 primary							
M24 1st reg.							
M24 2nd reg.							
M25 primary							
M25 1st reg.							
M25 2nd reg.							
M26 primary							
M26 1st reg.							
M26 2nd reg.							
M27 primary							
M27 1st reg.							
M27 2nd reg.							
M28 primary							
M28 1st reg.							
M28 2nd reg.							
M29 primary							
M29 1st reg.							
M29 2nd reg.							
M30 primary							
M30 1st reg.							
M30 2nd reg.							
N01 primary							
N01 1st reg.							
N01 2nd reg.							
N02 primary							
N02 1st reg.							
N02 2nd reg.							
N03 primary							
N03 1st reg.							
N03 2nd reg.							
N04 primary							
N04 1st reg.							
N04 2nd reg.							
N05 primary							
N05 1st reg.							
N05 2nd reg.							
NO6 primary							
N06 1st reg.							
N06 2nd reg. N07 primary							
N07 1st reg.							
N07 2nd reg.							

animal ID	segmental ectoderm	median neural	pygidial ectoderm	segmental mesoderm	pygidial mesoderm	endoderm	amoeboid cells
N08 primary							
N08 1st reg.							
N08 2nd reg.							
N09 primary							
N09 1st reg.							
N09 2nd reg.							
N10 primary							
N10 1st reg.							
N10 2nd reg.							
N11 primary							
N11 1st reg.							
N11 2nd reg.							
N12 primary							
N12 1st reg.							
N12 2nd reg.							
N13 primary							
N13 1st reg.							
N13 2nd reg.							
N14 primary							
N14 1st reg.							
N14 2nd reg.							
N15 primary							
N15 1st reg.							
N15 2nd reg.							
N16 primary							
N16 1st reg.							
N16 2nd reg.							
N19 primary							
N19 1st reg.							
N19 2nd reg.							
N20 primary							
N20 1st reg.							
N20 2nd reg.							
N21A primary							
N21A 1st reg.							
N21A 2nd reg.							
N21B primary							
N21B 1st reg.							
N21B 2nd reg.							
N22 primary				<u> </u>			
N22 1st reg.							
N22 2nd reg.							
N23 primary							
N23 1st reg.							
N23 2nd reg.							

animal ID	segmental ectoderm	median neural	pygidial ectoderm	segmental mesoderm	pygidial mesoderm	endoderm	amoeboid cells
N25 primary							
N25 1st reg.							
N25 2nd reg.							
N26 primary							
N26 1st reg.							
N26 2nd reg.							
N27 primary							
N27 1st reg.							
N27 2nd reg.							
N28 primary							
N28 1st reg.							
N28 2nd reg.							
N31 primary							
N31 1st reg.							
N31 2nd reg.							
N33 primary							
N33 1st reg.							
N33 2nd reg.							
N35 primary							
N35 1st reg.							
N35 2nd reg.							
N36 primary							
N36 1st reg.							
N36 2nd reg.							
N38 primary							
N38 1st reg.							
N38 2nd reg.							
N39 primary							
N39 1st reg.							
N39 2nd reg.							
N40 primary							
N40 1st reg.							
N40 2nd reg.							
O02 primary							
O02 1st reg.							
O02 2nd reg.							
O04 primary							
004 1st reg.							
004 2nd reg.							
O06 primary							
O06 1st reg.							
006 2nd reg.							
O07 primary							
007 1st reg.							
O07 2nd reg.							

animal ID	segmental ectoderm	median neural	pygidial ectoderm	segmental mesoderm	pygidial mesoderm	endoderm	amoeboid cells
O08 primary							
O08 1st reg.							
O08 2nd reg.							
O09 primary							
009 1st reg.							
O09 2nd reg.							
O15 primary							
O15 1st reg.							
O15 2nd reg.							
O16 primary							
O16 1st reg.							
O16 2nd reg.							

Missing data are mostly due to adults maturing prematurely or dying accidentally

Frequency of patterns (= primary clones)

	segmental ectoderm	median neural	pygidial ectoderm	segmental mesoderm	pygidial mesoderm	endoderm	amoeboid cells
ubiquitous express	ion 7	4	6	3		4	
stochastic express	on 21		1			2	4
partially transgen	ic 1	9	46	3	1	10	
Total	29	13	53	6	1	16	4

Total positive	Total survivors
62	87

Transmission of transgenic expression through regeneration

			1
		segmental ectoderm	segmental ectoderm
		before regeneration	after regeneration
segmental ectoderm	transgenic	39	39
	non transgenic	38	38
		pygidial ectoderm	pygidial ectoderm
		before regeneration	after regeneration
segmental ectoderm	transgenic	39	39
	non transgenic	38	38
		before regeneration	after regeneration
segmental mesoderm	transgenic	11	11
	non transgenic	66	66
		before regeneration	after regeneration
endoderm	transgenic	23	22
_	non transgenic	54	54
	_	·	