

Table I: BrdU 24h-labeling index of coral and dinoflagellate cells

Tissue	Planula			Early metamorphosis			Primary polyp			Adult		
	mean	SD	nuclei number	mean	SD	nuclei number	mean	SD	nuclei number	mean	SD	nuclei number
pharynx	2,3% ± 2,2%		5214	2,4% ± 1,2%		2575	19,3% ± 7,3%		1921	5,5% ± 2,0%		3455
pseudostratified epithelium	1,4% ± 1,0%		64810	2,9% ± 2,6%		46583	2,9% ± 2,5%		27176	7,3% ± 1,6%		5896
calicodermis	0,4% ± 0,7%		10972	2,2% ± 3,8%		14498	0,4% ± 0,4%		11362	2,5% ± 2,2%		345
gastrodermis	5,7% ± 4,4%		46796	4,7% ± 1,5%		12713	11,1% ± 6,7%		24513	3,8% ± 1,6%		7885
dinoflagellates	29,5% ± 20,9%		1793	10,0% ± 15,2%		669	20,8% ± 12,8%		1204	9,8% ± 4,8%		737

nuclei pooled from 2-6 sections per replicate, 3-5 replicates per timepoint

Table II: Apoptotic index of coral and dinoflagellate cells

Tissue	Planula			Early metamorphosis			Primary polyp			Adult		
	mean	SD	nuclei number	mean	SD	nuclei number	mean	SD	nuclei number	mean	SD	nuclei number
pharynx	0,6% ± 0,4%		2121	1,1% ± 0,7%		1496	2,5% ± 2,1%		1053	0,5% ± 0,4%		1168
pseudostratified epithelium	0,6% ± 0,4%		7021	0,7% ± 0,5%		8219	1,0% ± 0,9%		5992	1,4% ± 1,1%		1300
calicodermis	1,5% ± 1,5%		2139	1,4% ± 1,2%		4124	1,9% ± 1,1%		2493	2,6% ± 0,7%		657
gastrodermis	3,3% ± 2,5%		4675	5,1% ± 2,4%		5136	4,1% ± 4,3%		3927	1,5% ± 0,7%		2120
dinoflagellates	12,8% ± 6,7%		172	11,3% ± 5,6%		149	34,5% ± 27,8%		209	27,7% ± 11,6%		172

nuclei pooled from 1-4 sections per replicate, 3 replicates per timepoint

Table III: BrdU labeling index during the chase experiment

Tissue	Primary polyp (t0)			48 h Chase			64 h Chase		
	mean	SD	nuclei number	mean	SD	nuclei number	mean	SD	nuclei number
pharynx	19,3% ± 7,3%		1921	19,8% ± 4,4%		1756	11,4% ± 6,6%		2848
pseudostratified epithelium	2,9% ± 2,5%		27176	15,6% ± 5,7%		6886	2,3% ± 2,4%		10534
calicodermis	0,4% ± 0,4%		11362	2,9% ± 2,5%		5188	1,0% ± 1,0%		2131
gastrodermis	11,1% ± 6,7%		24513	10,9% ± 2,8%		9032	3,5% ± 1,7%		6563
dinoflagellates	20,8% ± 12,8%		1204	26,7% ± 4,4%		656	25,1% ± 4,7%		365

nuclei pooled from 4-6 sections per replicate, 2-5 replicates per time-point

Table IV: Nuclei BrdU-labeling intensity

Tissue	Primary polyp			48 h Chase			64 h Chase		
	mean	SD	nuclei number	mean	SD	nuclei number	mean	SD	nuclei number
pharynx	0,94 ± 0,40		30	0,36 ± 0,12		30	0,18 ± 0,06		30
pseudostratified epithelium	1,04 ± 0,45		54	0,44 ± 0,21		60	0,26 ± 0,10		37
calicodermis	0,57 ± 0,46		19	0,40 ± 0,12		21	0,28 ± 0,08		7
gastrodermis	1,99 ± 1,13		59	0,98 ± 0,60		60	0,30 ± 0,17		58
dinoflagellates	0,8 ± 0,6		30	0,8 ± 0,4		30	0,5 ± 0,3		30

7-60 nuclei measured per replicate, 3 replicates per time-point

Table V: Mitotic index of dinoflagellates

dinoflagellates	Planula			Early metamorphosis			Primary polyp			Adult		
	mean	SD	nuclei number	mean	SD	nuclei number	mean	SD	nuclei number	mean	SD	nuclei number
	1,6% ± 0,7%		1978	2,2% ± 1,2%		1168	6,3% ± 2,3%		1424	2,4% ± 0,9%		1196

mitotic index evaluated in 2-8 sections per replicate, 3 replicates per time-point