Supplemental Table 6

Expression of the components of histaminergic mechanism

	Genes		Dev. Stages				
		M.fr	EC	LC		LB	EG
		S.pur	EC	LC	EB	LB	EG
		L.var	EC	LC	EB	LB	EG
		P.liv	EC		EB	LB	EG
Enzymes	*HDC*	*M.fr*	NS	NS		NS	0,034
		S.pur	1,781	0,222	0,253	0,307	0,192
		P.liv	NS		NS	NS	NS
	HNMT	*M.fr*	NS	NS		NS	0,034
		S.pur	0,934	0,499	0,811	0,165	0,071
		L.var	0,017	0,008	0,013	0,01	NS
		P.liv	NS		NS	NS	0,004
	DAO	*S.pur*	0,147	0,154	0,096	0,188	0,074
		L.var	0,056	0,062	0,064	0,045	0,029
		P.liv	0,021		0,005	0,009	0,036
Receptors	*H1*	*M.fr*	0,013	0,039		0,077	0,035
		S.pur	0,045	0,007	NS	0,005	0,006
		L.var	0,632	0,649	1,054	0,154	0,067
	H2	*M.fr*	0,377	0,328		0,021	0,022
		S.pur	0,821	0,016	0,025	0,036	0,046
		L.var	0,906	0,79	1,623	0,245	0,135
	H3	*M.fr*	0,049	0,005		0,012	NS
		S.pur	0,483	0,016	0,037	NS	0,023
		L.var	0,09	0,083	0,11	0,004	0,009
	H4	*M.fr*	NS	NS		NS	NS
		S.pur	0,004	NS	NS	NS	NS
		L.var	0,007	0,006	0,004	NS	0,005
		P.liv	NS		NS	NS	NS

NRPM (GHG)

Color bar:

≥	5
	4,0
	3,0
	2,0
	1,0
	0,5
	0,4
	0,3
	0,2
	0,1
	0,01
	0,003
	0

Developmental Stages: EC - early cleavage; LC - late cleavage; EB - early blastula; LB - late blastula; EG - early gastrula. **Species names**: *M.fr - Mesocentrotus franciscanus; S.pur - Strongylocentrotus purpuratus; L.var - Lytechinus variegatus; P.liv - Paracentrotus lividus* . **Gene names**: *HDC* - histidine decarboxylase; *HNMT* - histamine N-methyltransferase; *DAO* - diamine oxidase. **Data definitions:** NRPM - RPM normalized to the geometric mean of the three housekeeping genes (GHG); NS - NS - not significant value. Transcriptomic data for this analysis were obtained from publicly available datasets:

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2) Hogan, J.D.; Keenan, J.L.; Luo, L.; Ibn-Salem, J.; Lamba, A.; Schatzberg, D.; Piacentino, M.L.; Zuch, D.T.; Core, A.B.; Blumberg, C.; et al. The Developmental Transcriptome for Lytechinus Variegatus Exhibits Temporally Punctuated Gene Expression Changes. Dev Biol 2020, 460, 139–154, doi:10.1016/j.ydbio.2019.12.002.

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4) Tu, Q.; Cameron, R.A.; Davidson, E.H. Quantitative Developmental Transcriptomes of the Sea Urchin Strongylocentrotus Purpuratus. Dev Biol 2014, 385, 160–167, doi:10.1016/j.ydbio.2013.11.019.