

**Supplemental table 1:** Digestive organs volume increase between stages (S). The increase volume were calculated with:  $S_i \rightarrow S_f = \left(\frac{S_f}{S_i} \times 100\right) - 100$ ,  $S_i$  is the initial stage and  $S_f$  the final stage.

	<b>S3-&gt;S4</b>	<b>S4-&gt;S5</b>	<b>S5-&gt;S6</b>	<b>S6-&gt;S9A</b>	<b>S8-&gt;S10</b>	<b>Mean</b>
GI-tract outer layer	65.82	87.97	111.65	157.12	381.44	160,80
GI-tract inner layer	42.58	31.67	97.30	96.64	523.84	158,41
GI-tract tissue <sup>a</sup>	74.55	94.78	128.73	219.17	291.43	161,73
Liver	67.30	102.76	129.41	312.13	355.99	193,52
Pancreas	57.16	80.46	187.73	332.02	-1.58	131,16
Islets of Langerhans	38.53	101.12	84.21	407.62	120.08	150,31
Presumptive stomach	55.33	76.98	162.29	392.97	1089.91	355,50
					<b>Overall mean</b>	<b>187.35</b>

<sup>a</sup> GI-tract tissue volume = GI-tract outer layer - GI-tract inner layer

**Supplemental table 2:** Standardized digestive organs volume increase. The volume increase (see supplemental table 1) was normalized to the overall mean of volume increase between stages for each tissue.

	<b>S3-&gt;S4</b>	<b>S4-&gt;S5</b>	<b>S5-&gt;S6</b>	<b>S6-&gt;S8</b>	<b>S8-&gt;S10</b>
GI-tract outer layer	0.35	0.47	0.60	0.84	2.04
GI-tract inner layer	0.23	0.17	0.52	0.52	2.80
GI-tract tissue <sup>a</sup>	0.40	0.51	0.69	1.17	1.56
Liver	0.36	0.55	0.69	1.67	1.90
Pancreas	0.31	0.43	1.00	1.77	-0.01
Islets of Langerhans	0.21	0.54	0.45	2.18	0.64
Presumptive stomach	0.30	0.41	0.87	2.10	5.82

<sup>a</sup> GI-tract tissue volume = GI-tract outer layer - GI-tract inner layer