

**Table 1.** Pearson correlation coefficients (black) and p-values (grey) for bolus weight, chewing time, number of chews and level of starch hydrolysis upon *in vivo* mastication of wraps consisting of 100% raw-milled, reference red bean flour (100B<sub>ref</sub>), 80% reference and 20% cellular red bean flour (80B<sub>ref</sub>\_20B<sub>cell</sub>) or 80% wheat flour and 20% cellular bean flour (80W<sub>ref</sub>\_20B<sub>cell</sub>).

	<b>Bolus weight</b> 100B <sub>ref</sub>	<b>Bolus weight</b> 80B <sub>ref</sub> _20B <sub>cell</sub>	<b>Bolus weight</b> 80W <sub>ref</sub> _20B <sub>cell</sub>	<b>Chewing time</b> 100B <sub>ref</sub>	<b>Chewing time</b> 80B <sub>ref</sub> _20B <sub>cell</sub>	<b>Chewing time</b> 80W <sub>ref</sub> _20B <sub>cell</sub>	<b>Numbers of chews</b> 100B <sub>ref</sub>	<b>Number of chews</b> 80B <sub>ref</sub> _20B <sub>cell</sub>	<b>Number of chews</b> 80W <sub>ref</sub> _20B <sub>cell</sub>	<b>Starch hydrolysis</b> 100B <sub>ref</sub>	<b>Starch hydrolysis</b> 80B <sub>ref</sub> _20B <sub>cell</sub>	<b>Starch hydrolysis</b> 80W <sub>ref</sub> _20B <sub>cell</sub>
<b>Bolus weight</b> 100B <sub>ref</sub>	1.0000 <.0001											
<b>Bolus weight</b> 80B <sub>ref</sub> _20B <sub>cell</sub>	0.7413 <.0001	1.0000 <.0001										
<b>Bolus weight</b> 80W <sub>ref</sub> _20B <sub>cell</sub>	0.7433 <.0001	0.8873 <.0001	1.0000 <.0001									
<b>Chewing time</b> 100B <sub>ref</sub>	0.3266 0.0454	0.1713 0.3039	0.1308 0.4339	1.0000 <.0001								
<b>Chewing time</b> 80B <sub>ref</sub> _20B <sub>cell</sub>	0.1632 0.3275	0.2393 0.1479	0.1871 0.2607	0.6866 <.0001	1.0000 <.0001							
<b>Chewing time</b> 80W <sub>ref</sub> _20B <sub>cell</sub>	0.2097 0.2063	0.2058 0.2151	0.3001 0.0672	0.4165 0.0093	0.5800 0.0001	1.0000 <.0001						
<b>Numbers of chews</b> 100B <sub>ref</sub>	0.4124 0.0101	0.2704 0.1007	0.2859 0.0819	0.7661 <.0001	0.5570 0.0003	0.4279 0.0074	1.0000 <.0001					
<b>Number of chews</b> 80B <sub>ref</sub> _20B <sub>cell</sub>	0.1457 0.3829	0.1723 0.3008	0.1599 0.3377	0.5166 0.0009	0.7685 <.0001	0.5484 0.0004	0.7189 <.0001	1.0000 <.0001				
<b>Number of chews</b> 80W <sub>ref</sub> _20B <sub>cell</sub>	0.3100 0.0582	0.3410 0.0362	0.4179 0.00907	0.4427 0.0054	0.6063 <.0001	0.7338 <.0001	0.6080 <.0001	0.7896 <.0001	1.0000 <.0001			
<b>Starch hydrolysis</b> 100B <sub>ref</sub>	0.6287 <.0001	0.6394 <.0001	0.5893 <.0001	0.2585 0.1171	0.3131 0.0556	0.1298 0.4374	0.3718 0.0215	0.2648 0.1082	0.3143 0.0546	1.0000 <.0001		
<b>Starch hydrolysis</b> 80B <sub>ref</sub> _20B <sub>cell</sub>	0.4105 0.0105	0.6810 <.0001	0.6142 <.0001	0.0902 0.5903	0.2788 0.0901	0.2491 0.1315	0.2058 0.2151	0.2610 0.1134	0.3435 0.0347	0.7467 <.0001	1.0000 <.0001	
<b>Starch hydrolysis</b> 80W <sub>ref</sub> _20B <sub>cell</sub>	0.4327 0.0067	0.5320 0.0006	0.5806 0.0001	0.1160 0.4881	0.3815 0.0181	0.3350 0.0398	0.2403 0.1462	0.3101 0.0582	0.3419 0.0357	0.6573 <.0001	0.7336 <.0001	1.0000 <.0001