Supplementary Table 3. Significant Pearson's correlation coefficients between chemical characteristics and between chemical and agronomic characteristics per environment for bread wheat

	PA	P_i	P_p/P_i	YP	WSPH	PSH
YLD	−0.696**(ZP11)	−0.643**(ZP11)	0.680**(RS12)		−0.601*(ZP12)	
PH	0.539*(RS11), 0.604*(ZP11)					
SL	−0.541*(RS12), −0.561*(ZP11)	−0.573*(ZP12), −0.633*(PS 11)				
GNS		−0.597*(PS 11)				
GL	−0.640*(RS11), −0.553*(ZP11)	−0.538*(RS12)				
GW						−0.611*(ZP11)
GT				−0.524*(RS11)		0.577*(PS 12)
PTC						0.550*(PS 11)
PA		0.822**(RS11), 0.782**(RS12), 0.656**(PS 11), 0.648**(PS 12)	0.520*(ZP12)	−0.575*(RS11), −0.519*(RS12)		
P_p/P_i		−0.882**(RS11), −0.887**(ZP11), −0.952**(ZP12), −0.727**(PS 11), −0.889**(PS 12)			−0.524*(RS11)	
YP		0.531*(ZP12)	−0.636*(RS12), −0.584*(ZP12)			

YLD = grain yield; PH = plant height; SL = spike length; GNS = grain number per spike; GL = grain length; GW = grain width; GT = grain thickness; PTC = productive tillering coefficient; PA = phytic acid; P_i = inorganic phosphorus; P_p/P_i = phytic phosphorus/inorganic phosphorus; YP = yellow pigment; WSPH = water soluble phenolics; PSH = free protein sulfhydryl groups; RS = Rimski Šančevi; ZP = Zemun Polje; PS = Padinska Skela; 11 = 2010–2011 growing season; 12 = 2011–2012 growing season; * = significant at $p< 0.05$; ** = significant at $p< 0.01$.