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Germination-induced changes in physicochemical, nutritional, antioxidant, and mineral properties of seven millet species

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SUPPLEMENTARY MATERIAL

S Table 1. Minerals (mg/100g) content of the of non-germinated and germinated millet samples

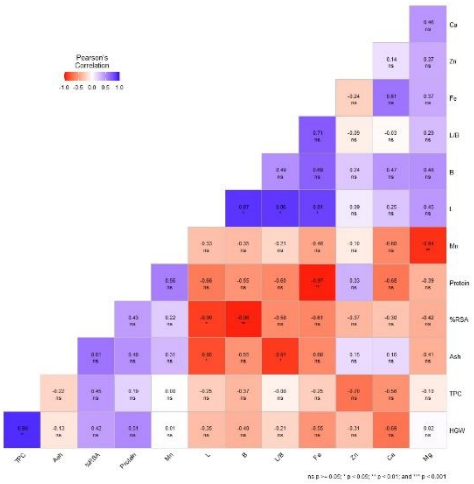
Sample	Ger. Hour	Zinc	Manganese	Calcium	Magnesium	Iron
Bajra	0	1.90±0.06^{a}	8.84±0.19^{bc}	12.76±0.03^{a}	2.76±0.06^{b}	5.39±0.06^{a}
	12	1.90±0.07^{a}	8.85±0.26^{bc}	13.41±0.13^{b}	2.90±0.04^{c}	5.45±0.18^{a}
	24	1.96±0.06^{a}	8.65±0.17^{a}	13.47±0.06^{b}	3.75±0.12^{d}	5.95±0.00^{b}
	36	1.92±0.03^{a}	8.76±0.07^{a}	15.76±0.57^{d}	2.89±0.01^{c}	5.96±0.26^{b}
	48	2.20±0.05^{b}	8.52±0.28^{a}	15.00±0.04^{c}	4.21±0.07^{e}	5.55±0.04^{a}
	60	2.11±0.02^{b}	9.16±0.14^{c}	12.71±0.19^{a}	2.24±0.02^{a}	5.41±0.08^{a}
Sorghum	0	1.89±0.06^{ab}	9.33±0.31^{b}	0.34±0.00^{d}	4.70±0.16^{bc}	5.63±0.21^{c}
	12	2.00±0.04^{c}	9.06±0.32^{ab}	0.21±0.00^{c}	4.61±0.12^{b}	5.51±0.13^{bc}
	24	1.82±0.01^{a}	9.43±0.26^{b}	0.55±0.00^{e}	3.35±0.12^{a}	5.11±0.12^{a}
	36	1.93±0.05^{bc}	8.67±0.16^{a}	0.92±0.01^{f}	6.12±0.22^{e}	5.42±0.12^{bc}
	48	1.91±0.05^{ab}	9.15±0.31^{ab}	0.06±0.00^{b}	4.94±0.00^{cd}	5.27±0.23^{ab}
	60	1.96±0.05^{bc}	9.54±0.20^{b}	0.04±0.00^{a}	5.20±0.17^{d}	4.98±0.18^{a}
Barnyard millet	0	1.88±0.05^{a}	8.81±0.10^{c}	1.35±0.05^{c}	2.54±0.05^{a}	5.35±0.12^{b}
	12	2.00±0.06^{a}	8.83±0.14^{c}	0.76±0.03^{a}	2.64±0.05^{a}	5.37±0.19^{b}
	24	2.16±0.08^{b}	8.83±0.21^{c}	2.29±0.02^{d}	4.25±0.08^{b}	5.47±0.13^{b}
	36	1.94±0.01^{a}	8.86±0.24^{c}	2.27±0.05^{d}	4.23±0.02^{b}	5.47±0.06^{b}
	48	1.92±0.07^{a}	3.30±0.03^{b}	1.37±0.01^{c}	4.98±0.15^{c}	5.42±0.10^{b}
	60	1.95±0.08^{a}	2.72±0.09^{a}	1.10±0.04^{b}	4.85±0.19^{c}	5.09±0.19^{a}
Little millet	0	2.01±0.03^{b}	9.87±0.41^{a}	4.94±0.16^{e}	4.89±0.21^{c}	5.02±0.22^{bc}
	12	1.99±0.08^{b}	9.86±0.01^{a}	4.92±0.09^{e}	4.95±0.17^{c}	5.06±0.08^{bc}
	24	1.80±0.07^{a}	9.77±0.39^{a}	1.18±0.04^{a}	3.43±0.09^{a}	4.85±0.12^{ab}
	36	1.91±0.07^{b}	9.51±0.22^{a}	2.12±0.02^{b}	4.78±0.09^{bc}	4.74±0.07^{a}
	48	2.47±0.01^{c}	9.48±0.05^{a}	3.03±0.08^{c}	4.57±0.14^{b}	5.01±0.09^{bc}
	60	2.57±0.03^{c}	9.36±0.35^{a}	3.27±0.11^{d}	5.53±0.12^{d}	5.24±0.17^{c}
Foxtail millet	0	2.05±0.08^{ab}	9.17±0.07^{a}	0.42±0.02^{c}	3.99±0.17^{b}	5.16±0.02^{a}
	12	2.06±0.04^{ab}	9.19±0.19^{a}	0.39±0.01^{b}	4.10±0.04^{b}	5.21±0.03^{a}
	24	2.15±0.05^{b}	9.50±0.06^{ab}	0.14±0.00^{a}	2.85±0.05^{a}	4.99±0.18^{a}
	36	2.03±0.04^{a}	9.47±0.09^{ab}	0.51±0.000^{d}	3.94±0.13^{b}	5.23±0.03^{a}
	48	2.12±0.04^{ab}	9.52±0.06^{ab}	0.55±0.00^{e}	4.64±0.02^{c}	5.12±0.20^{a}
	60	2.15±0.07^{b}	9.68±0.43^{b}	0.59±0.01^{f}	4.55±0.02^{c}	5.13±0.19^{a}
Kodo millet	0	4.12±0.17^{b}	8.73±0.31^{a}	0.24±0.01^{c}	3.17±0.11^{a}	5.72±0.18^{ab}
	12	4.07±0.08^{b}	8.76±0.34^{a}	0.10±0.00^{a}	3.28±0.10^{a}	5.68±0.24^{ab}
	24	4.49±0.06^{c}	8.70±0.23^{a}	0.14±0.01^{b}	3.46±0.08^{b}	5.77±0.08^{ab}
	36	1.97±0.08^{a}	8.82±0.35^{a}	0.84±0.04^{e}	3.33±0.10^{ab}	5.62±0.01^{a}

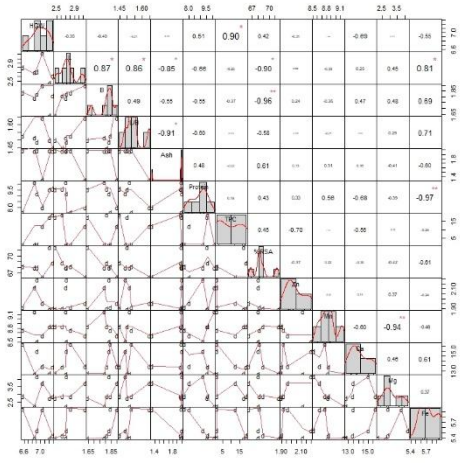
	48	1.93±0.09[a]	10.27±0.19[b]	0.35±0.01[d]	5.45±0.10[c]	5.92±0.05[bc]
	60	1.94±0.09[a]	8.47±0.13[a]	0.36±0.01[d]	5.40±0.07[c]	6.00±0.03[c]
Finger millet	0	1.94±0.04[b]	9.79±0.06[a]	45.87±0.70[b]	1.06±0.01[c]	4.52±0.17[ab]
	12	1.96±0.01[b]	9.84±0.42[a]	34.75±0.94[a]	1.19±0.01[d]	4.62±0.20[b]
	24	1.80±0.03[a]	10.01±0.02[a]	69.34±0.50[c]	0.57±0.02[a]	4.47±0.19[ab]
	36	2.29±0.07[c]	9.78±0.30[a]	84.73±0.92[d]	0.76±0.02[bc]	4.45±0.01[ab]
	48	1.95±0.08[b]	9.81±0.02[a]	128.46±3.59[e]	0.78±0.02[b]	4.35±0.00[ab]
	60	1.89±0.02[b]	10.02±0.29[a]	83.54±2.79[d]	0.73±0.03[a]	4.29±0.11[a]

Values are expressed as mean ± SD (n = 3). Different superscript letters within the same column of the each millet sample indicate significant differences among different germination times, as determined by one-way ANOVA followed by Tukey's HSD test at $p < 0.05$.

S Figure 1. Correlation between the characteristics during the different periods of germination

Bajra





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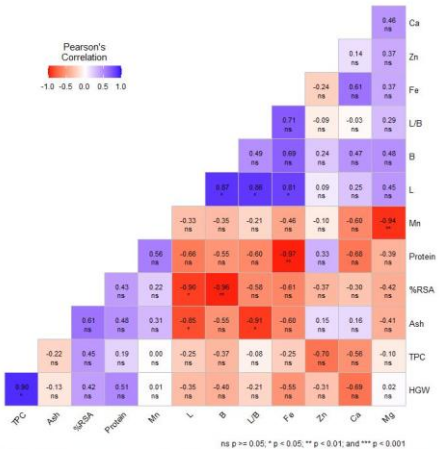

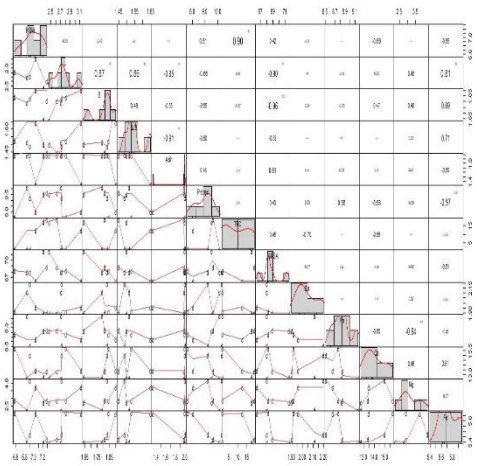

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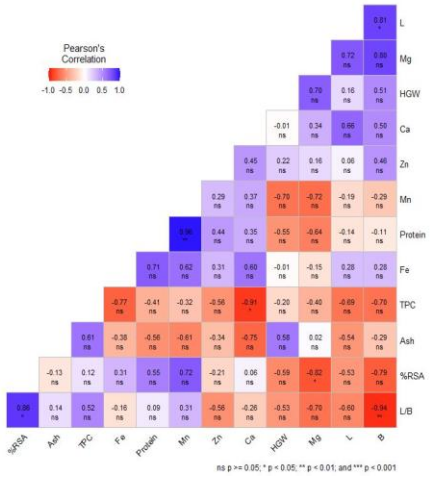

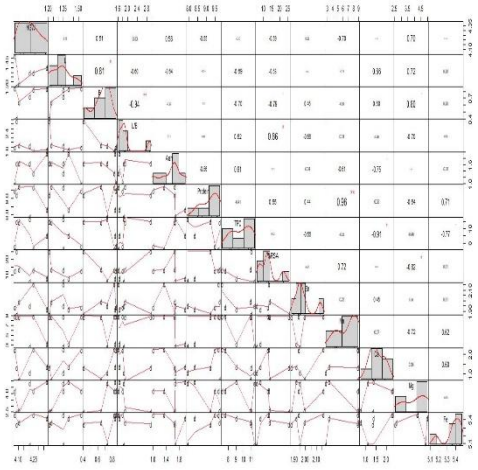

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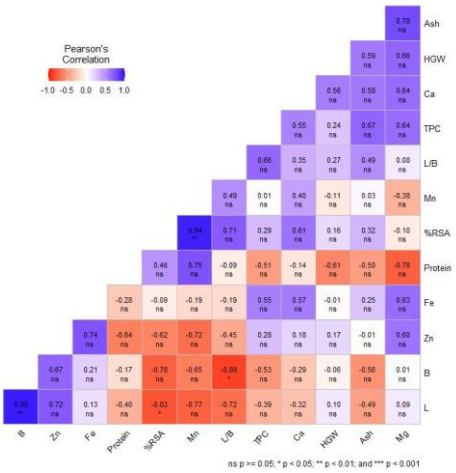

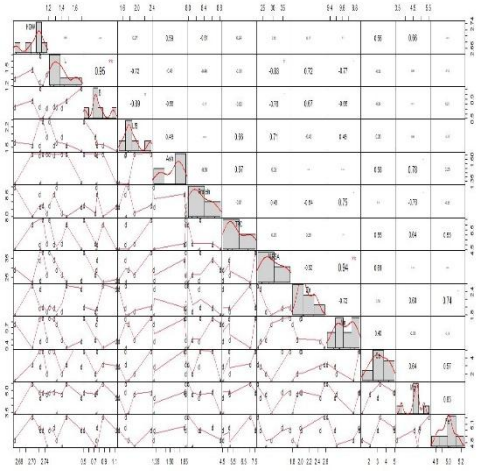

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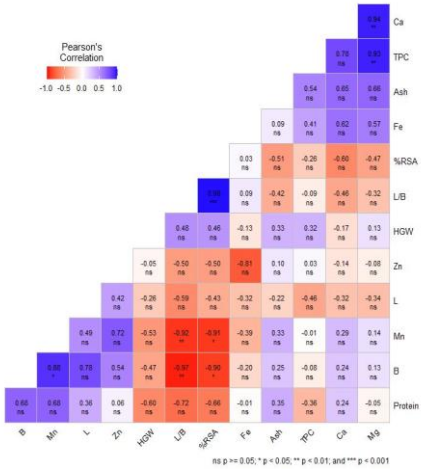

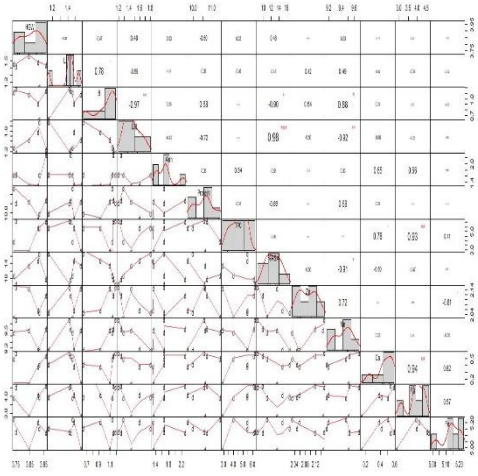

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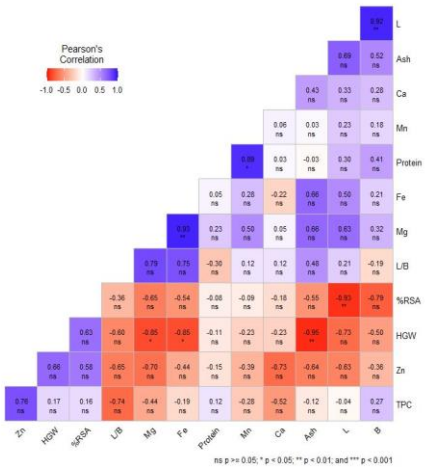

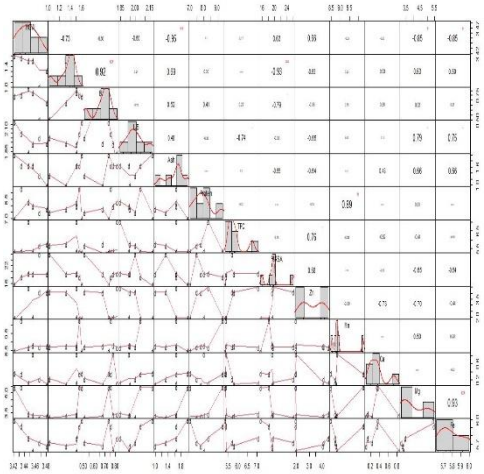

Finger millet

