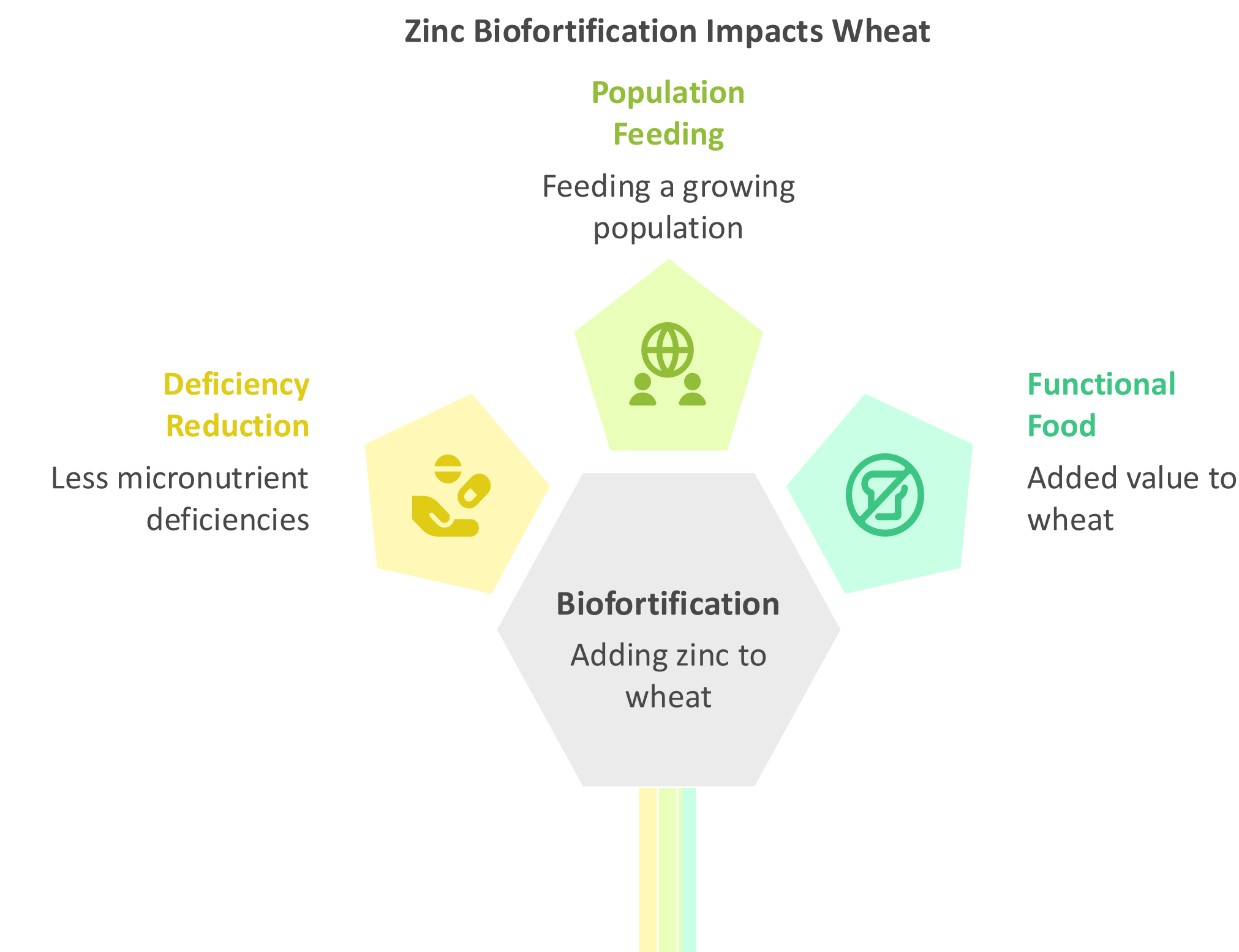


Zinc enrichment of *Triticum aestivum* L. (cvs. Roxo and Paiva): nutritional characterization and influence of tecnifol Zinc in flours and grains

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INTRODUCTION & AIM



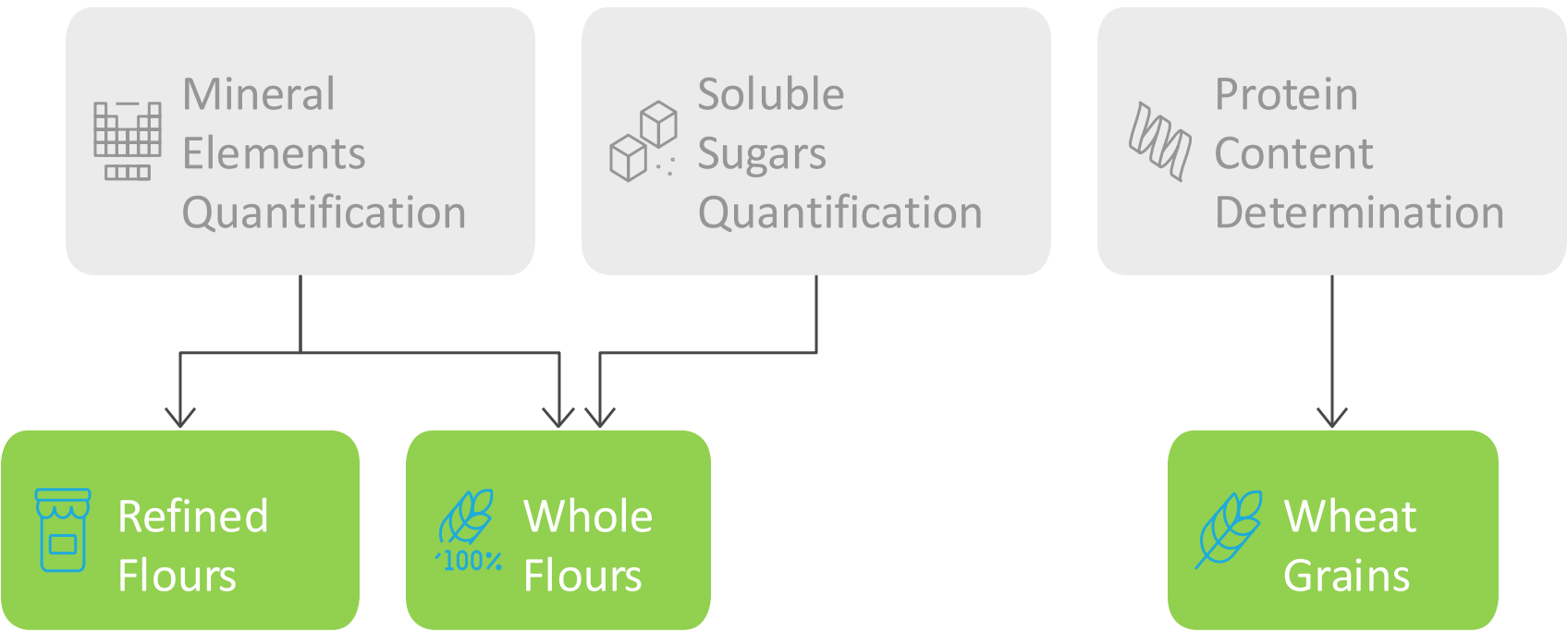
The aim of this work was to characterize a functional product with prophylactic characteristics and to compare the Roxo and Paiva varieties with and without foliar application of tecnifol Zn.

METHOD

Biofortification Experiment in Beja, Portugal

<i>Triticum aestivum</i> L. cvs. / Tecnifol Zinc	Control (0 kg.ha ⁻¹)	1.3 kg.ha ⁻¹	2.6 kg.ha ⁻¹
Roxo	R0Te	R1Te	R2Te
Paiva	P0Te	P1Te	P2Te

Analysis of Flour and Wheat Grain Composition



RESULTS & DISCUSSION

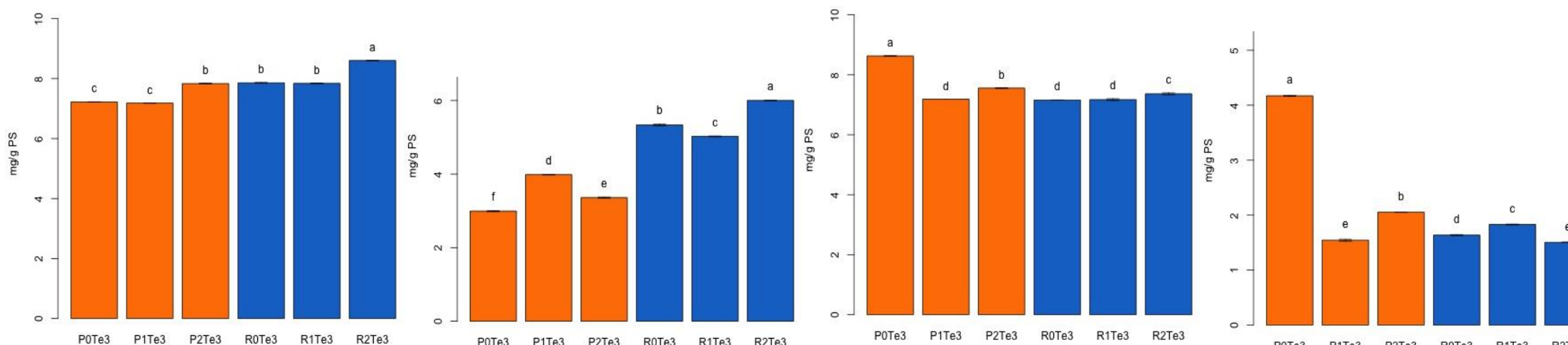
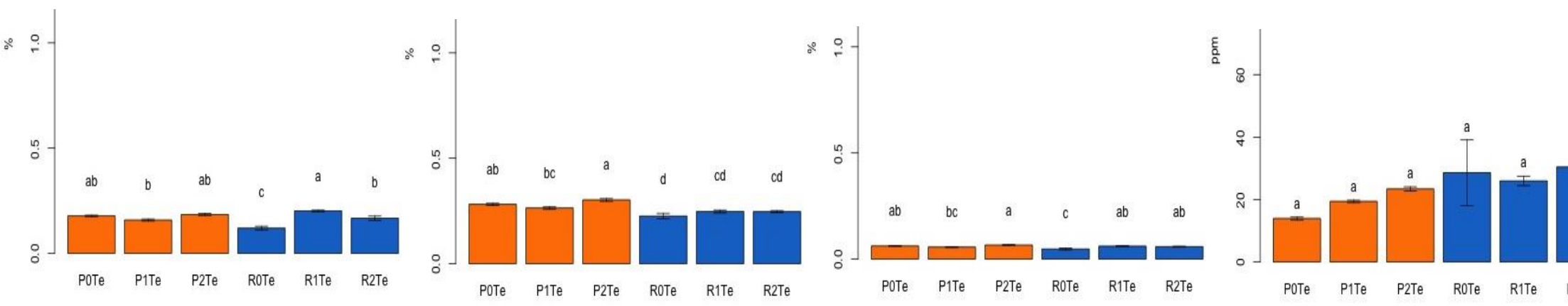
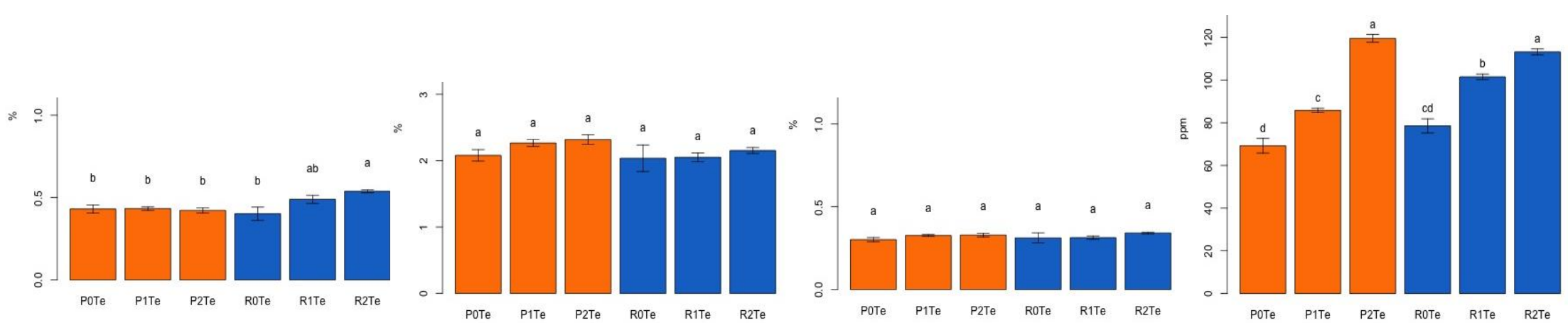


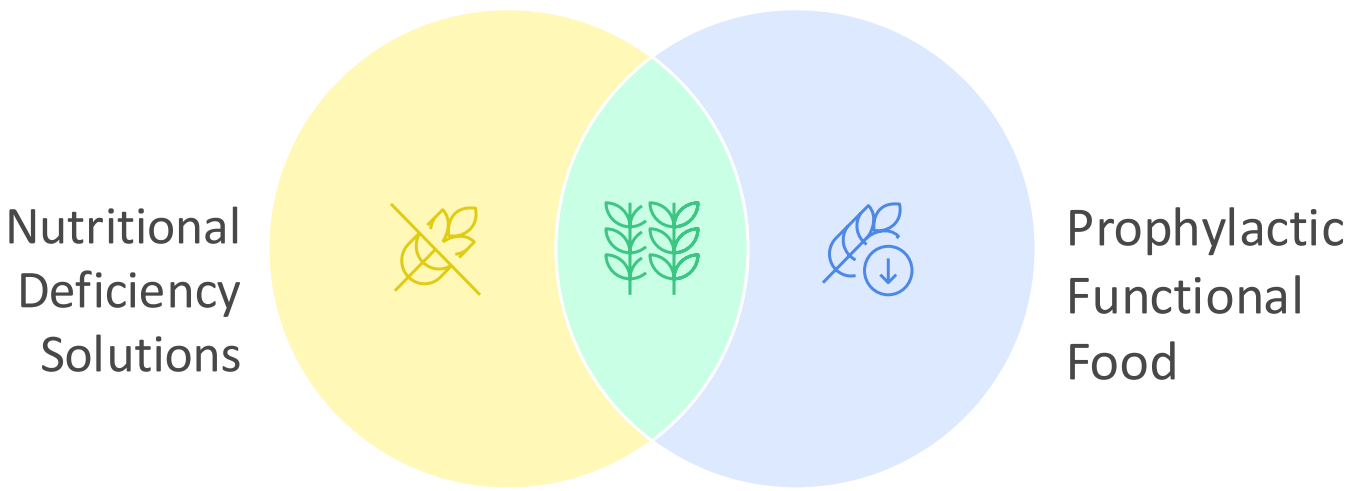
Table 1: Average (n = 1) protein content, in %, of *Triticum aestivum* L. (cvs. Paiva and Roxo) grains when applying the fertilizer Tecnifol Zinc (P0Te—control, P1Te—1.3, and P2Te—2.6 kg/ha).

Samples	Protein content (%)
P0Te	14,4
P1Te	14,5
P2Te	14,6
R0Te	16,3
R1Te	16,6
R2Te	16,7

CONCLUSION

The Power of Zinc-Biofortified Wheat

Biofortified Wheat Benefits



FUTURE WORK / REFERENCES

- United Nations, Department of Economic and Social Affairs, Population Division. *World Population Prospects 2024: Summary of Results*; United Nations, Department of Economic and Social Affairs: New York, NY, USA, 2024. Available online: <https://desapublications.un.org/publications/world-population-prospects-2024-summary-results> (accessed on 20 October 2025);
- Koç, E.; Karayığit, B. Assessment of biofortification approaches used to improve micronutrient-dense plants that are a sustainable solution to combat hidden hunger. *J Soil Sci Plant Nutr.* **2022**, *22*(1), 475–500, doi: 10.1007/s42729-021-00663-1.