

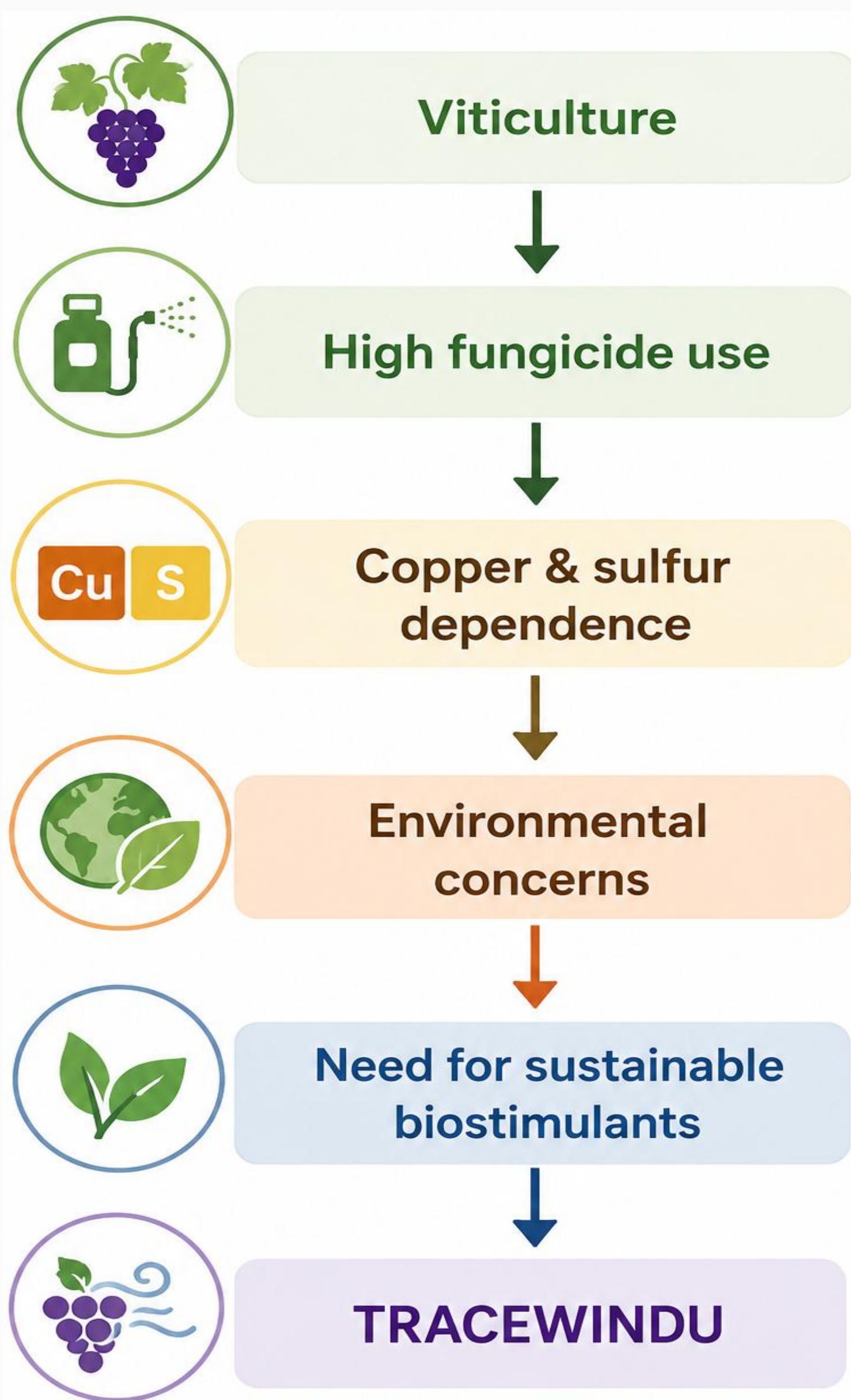
Sustainable Crop Protection Using Biostimulants

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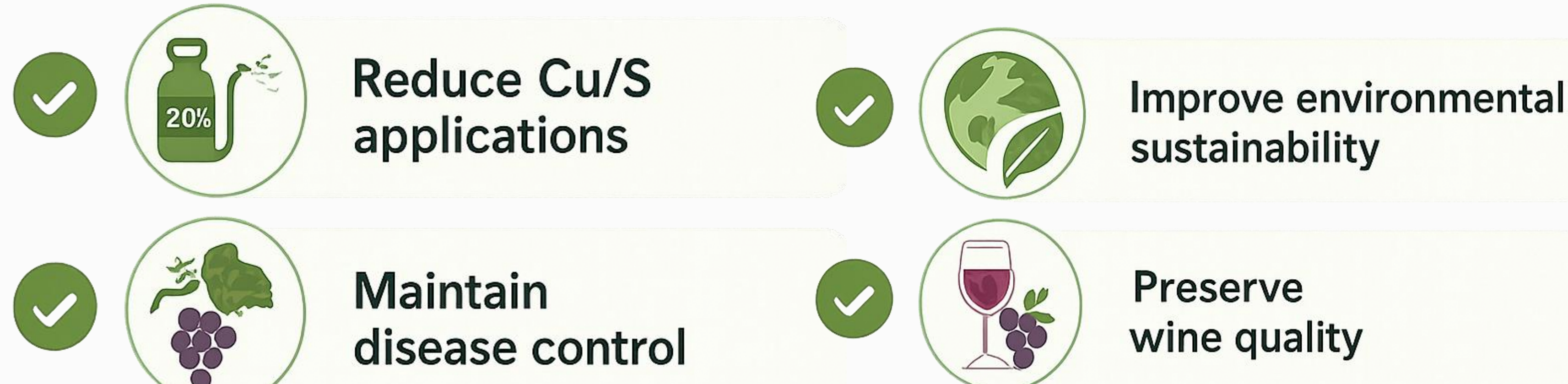
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INTRODUCTION



OBJECTIVES



EXPERIMENTAL DESIGN: Multi-season vineyard field trial (2022–2025)



TREATMENTS

CONTROL



Untreated

T1 – CONVENTIONAL



Conventional treatment based on copper and sulfur (reference)

T2 – BIOSTIMULANT

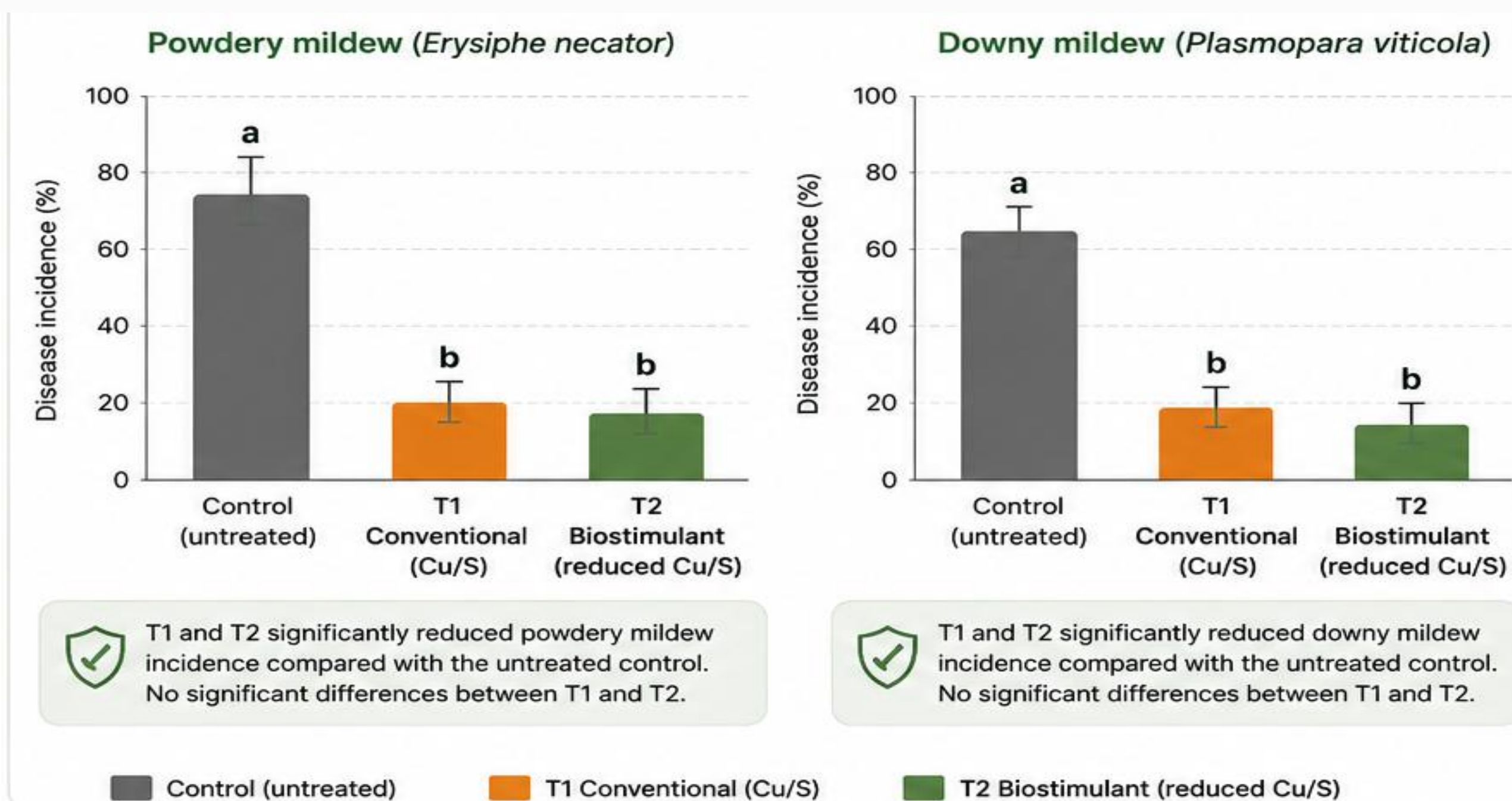


Biostimulant treatment (Complex I Basic + Bio Fitos S.R.O.) combined with reduced Cu/S

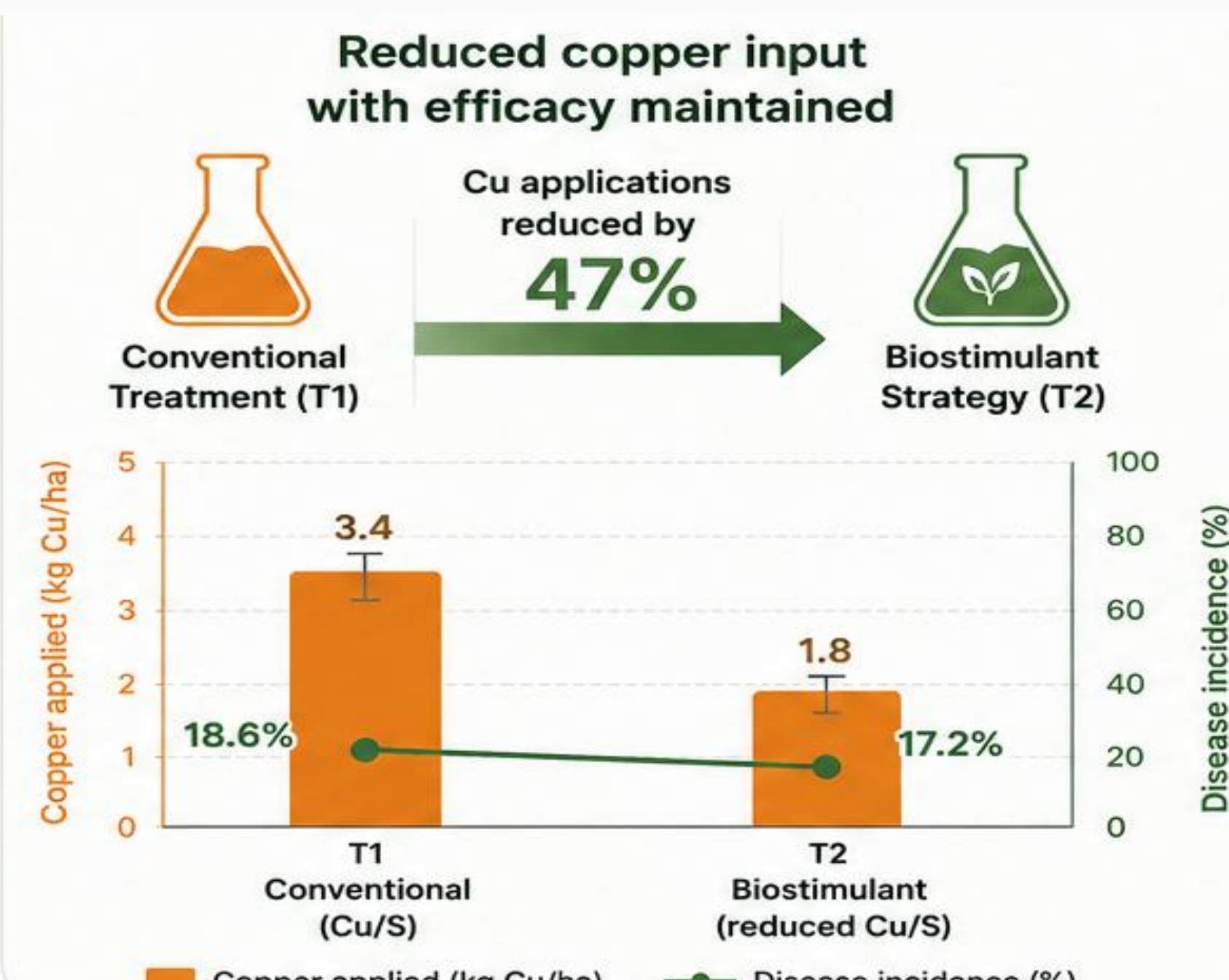
TRIAL OVERVIEW

- March – September 2025
- Viñedo (NE Spain)
- 2 blocks
- 6 replicates per treatment
- 120 vines per replicate
- Evaluations: powdery mildew and downy mildew incidence and severity, copper input, wine sensory quality

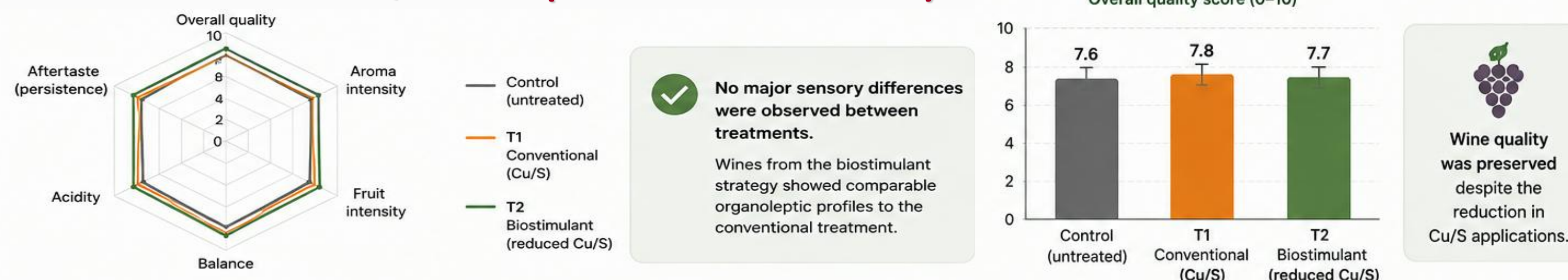
RESULT 1 – DISEASE INCIDENCE



RESULT 2 – COPPER REDUCTION



RESULT 3 – WINE QUALITY (SENSORY ANALYSIS)



CONCLUSIONS

- ✓ Biostimulants can reduce Cu/S use
- ✓ Disease control remains effective
- ✓ Wine sensory quality is maintained
- ✓ TRACEWINDU results support the potential of these biostimulants as alternatives for vineyard protection with reduced dependence on conventional fungicides.