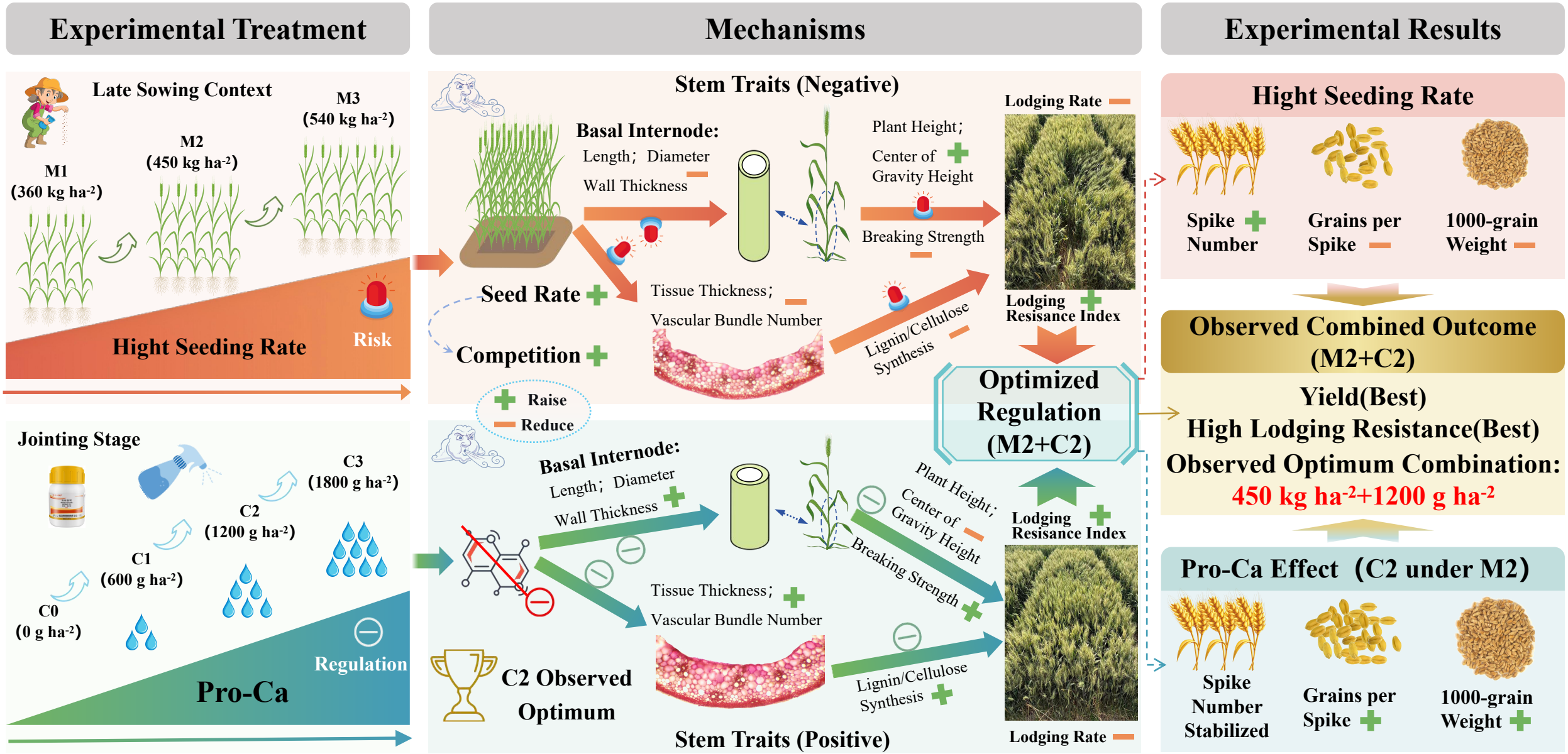

Experimental Treatment
Mechanisms
Experimental Results
Late Sowing Context
M1
(360 kg ha-2)
M2
(450 kg ha-2)
M3
(540 kg ha-2)
Hight Seeding Rate
Risk
Jointing Stage
C0
(0 g ha-2)
C1
(600 g ha-2)
C2
(1200 g ha-2)
C3
(1800 g ha-2)
Pro-Ca
Regulation
Stem Traits (Negative)
Basal Internode:
Length; Diameter
Wall Thickness
Seed Rate
Competition
Tissue Thickness;
Vascular Bundle Number
Plant Height;
Center of Gravity Height
Breaking Strength
Lignin/Cellulose Synthesis
Lodging Rate
Lodging Resisance Index
Raise
Reduce
Optimized Regulation (M2+C2)
C2 Observed Optimum
Stem Traits (Positive)
Hight Seeding Rate
Spike Number
Grains per Spike
1000-grain Weight
Observed Combined Outcome (M2+C2)
Yield(Best)
High Lodging Resistance(Best)
Observed Optimum Combination:
450 kg ha-2+1200 g ha-2
Pro-Ca Effect (C2 under M2)
Spike Number Stabilized
Grains per Spike
1000-grain Weight