

Supplemental Analysis

This section provides detailed analytical results and theoretical extensions that complement the main findings presented in Sections ?? and ??.

S3.1 Theoretical Extensions

S3.1.1 Extended Discourse Analysis Frameworks

Building on our mixed-methodology approach, we extend the theoretical framework for analyzing scientific discourse beyond the six Ento-Linguistic domains. Our analysis reveals that terminology networks serve as both descriptive tools and constitutive elements of scientific knowledge production.

Extended Constitutive Framework:

The constitutive role of language in scientific practice extends beyond individual terms to encompass entire conceptual networks. We formalize this through the concept of **discursive framing networks**:

$$F(D, T) = \sum w_t \cdot f_t(D) \cdot c_t \quad (1)$$