2.3% Total: 28 3.6% Total: 44 **Transmitters Transmitters** 4.5% 96.4% 93.2% C C Number of Tags Number of Tags 4 9 25 8.8% Total: 20 2.0% Total: 34 Receptors Receptors 11.8% В B 79.4% 95.0% O C 20 -10 25 15 12 9 50 Number of Tags Number of Tags 25.2% 24.6% Total: 135 Total: 57 **Cell Types** Cell Types 70.4% 73.7% U 10 100 20 -Number of Tags Number of Tags Total: 45 Total: 31 Ion Channels Ion Channels 87.1% 86.7% 9 20 9 30 22 20 12 Number of Tags Number of Tags Total: 117 Total: 205 Regions Regions Ω 97.1% %9.96 O 120 -20 -200 20 - 09 Number of Tags Number of Tags Total: 753 Total: 403 3.5% Concepts Concepts 97.2% 95.8% 800 700 400 400 Number of Tags Number of Tags 4-T9 Rule-Based

C

Metadata Prediction Model Comparison: GPT-4 vs Rule-Based