# Network Topology Analysis and Hub Target Identification
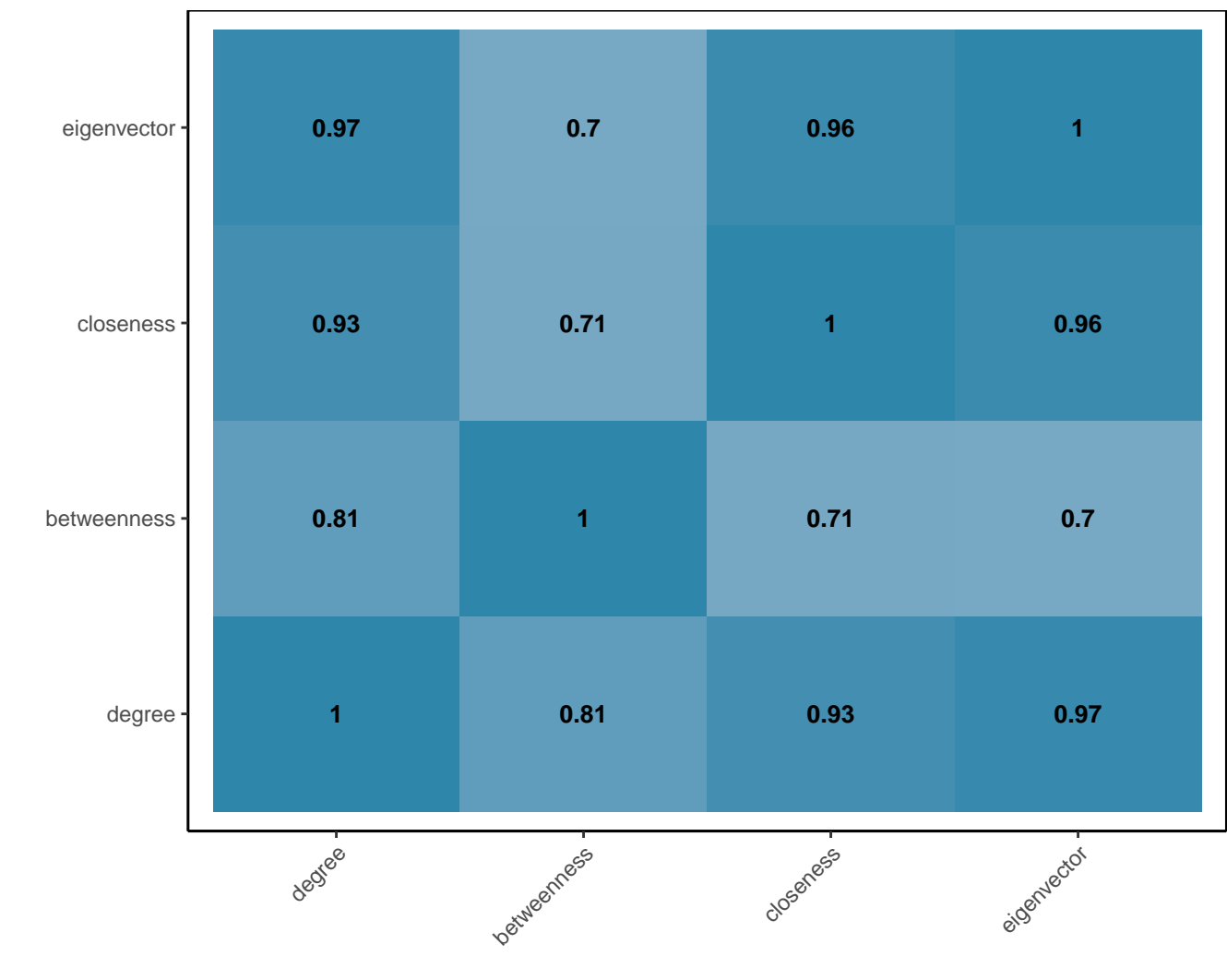
**Panel A: Degree Distribution**

Mean: 14.3
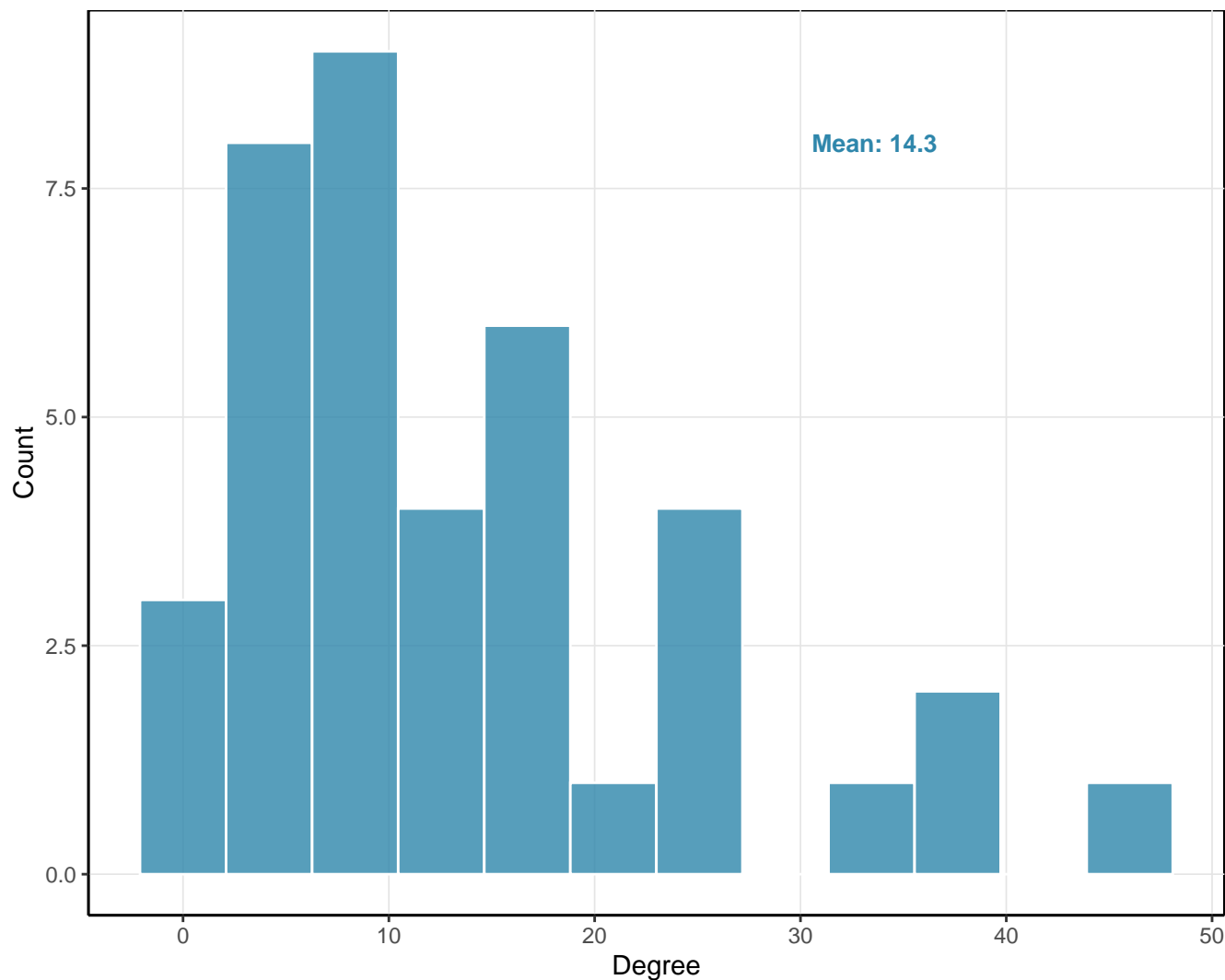
**Panel B: Centrality Analysis**

TP53, PTGS2, HIF1A, PPARG, EGFR, CA12, TRPA1, TOP1, CYP3A4, CYP2C9, MAPK1, PPARA
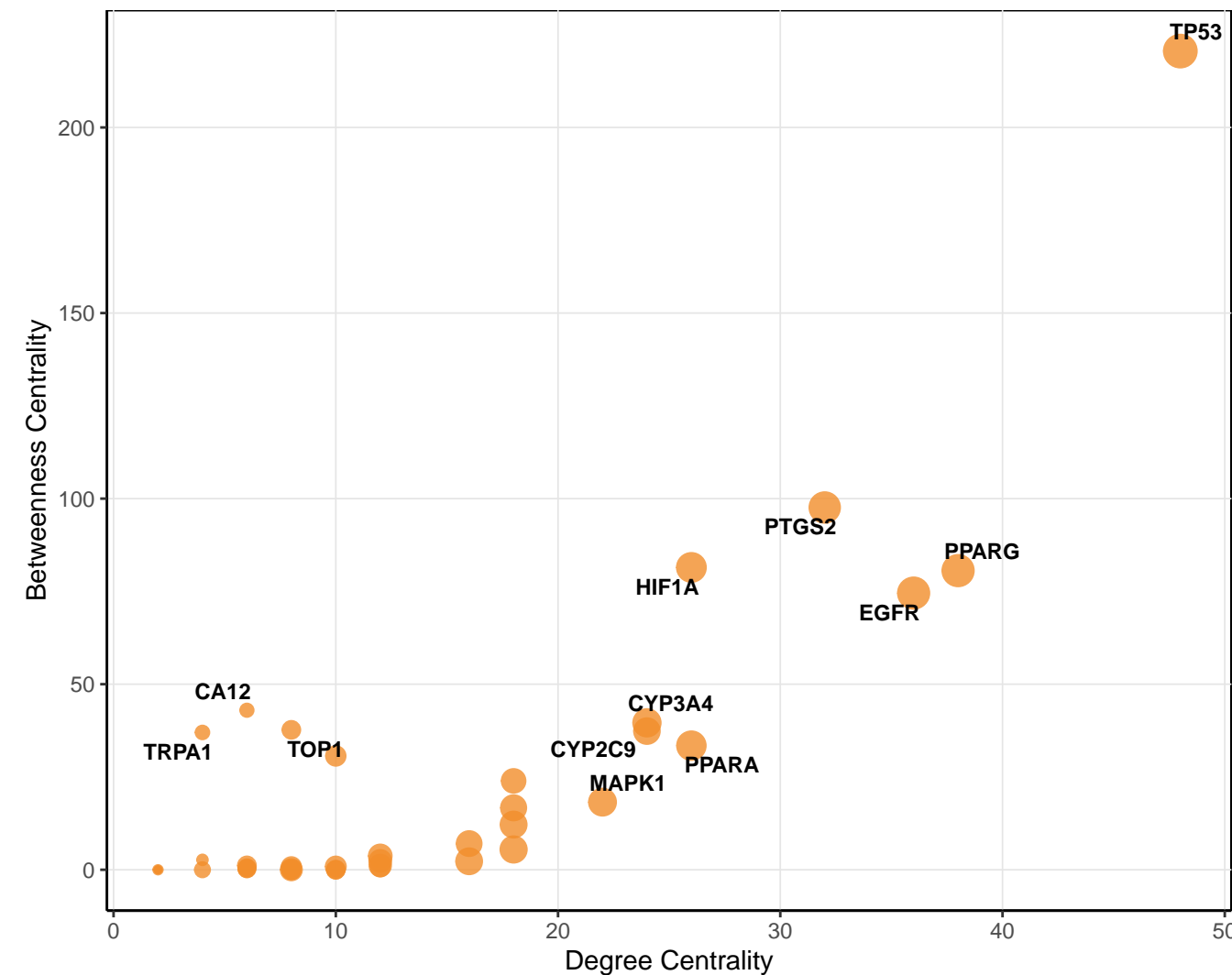
**Panel C: Centrality Correlation**

| | degree | betweenness | closeness | eigenvector |
|---|---|---|---|---|
| eigenvector | 0.97 | 0.7 | 0.96 | 1 |
| closeness | 0.93 | 0.71 | 1 | 0.96 |
| betweenness | 0.81 | 1 | 0.71 | 0.7 |
| degree | 1 | 0.81 | 0.93 | 0.97 |

**Panel D: Hub Protein Connectivity**

| Hub Proteins | Degree Centrality |
|---|---|
| TP53 | 48 |
| PPARG | 38 |
| EGFR | 36 |
| PTGS2 | 32 |
| PPARA | 26 |
| HIF1A | 26 |
| CYP3A4 | 24 |
| CYP2C9 | 24 |