Figure S1: Distribution of Jaccard indices for interacting proteins based on MIPS FunCat.

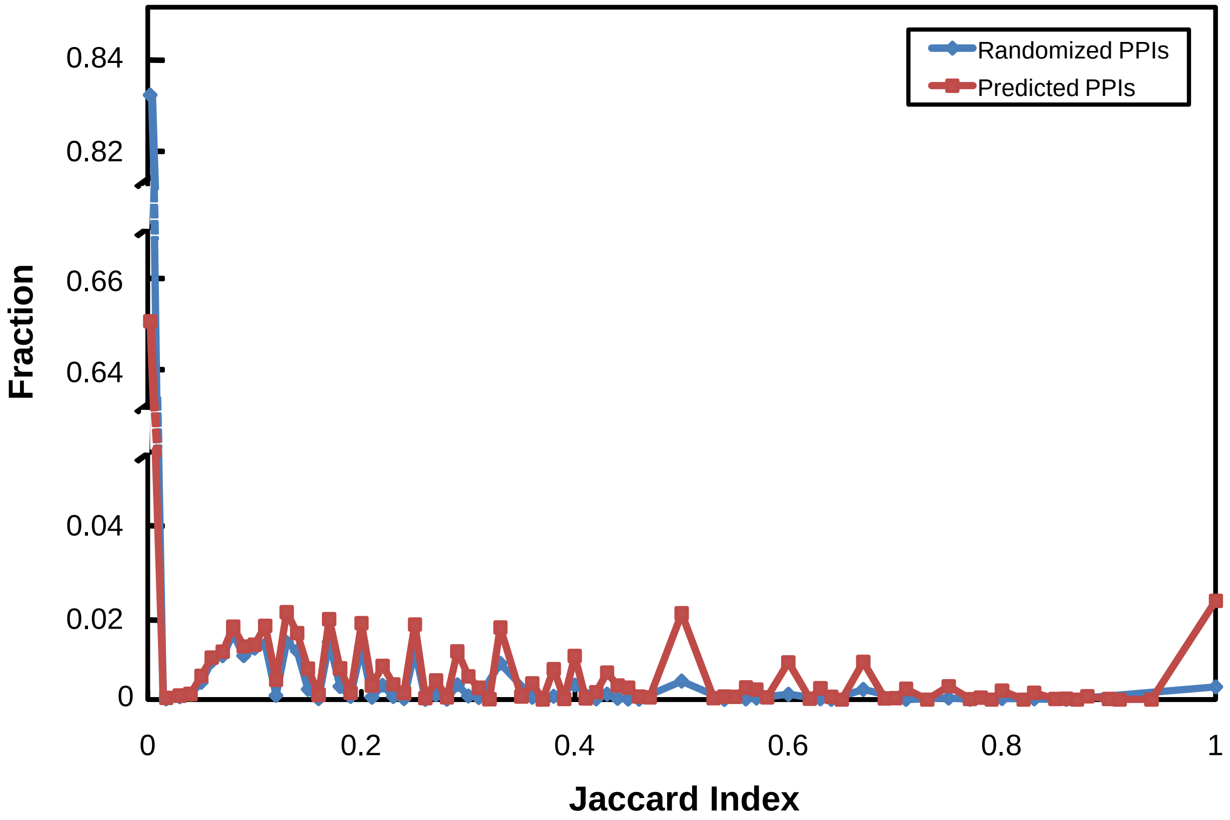
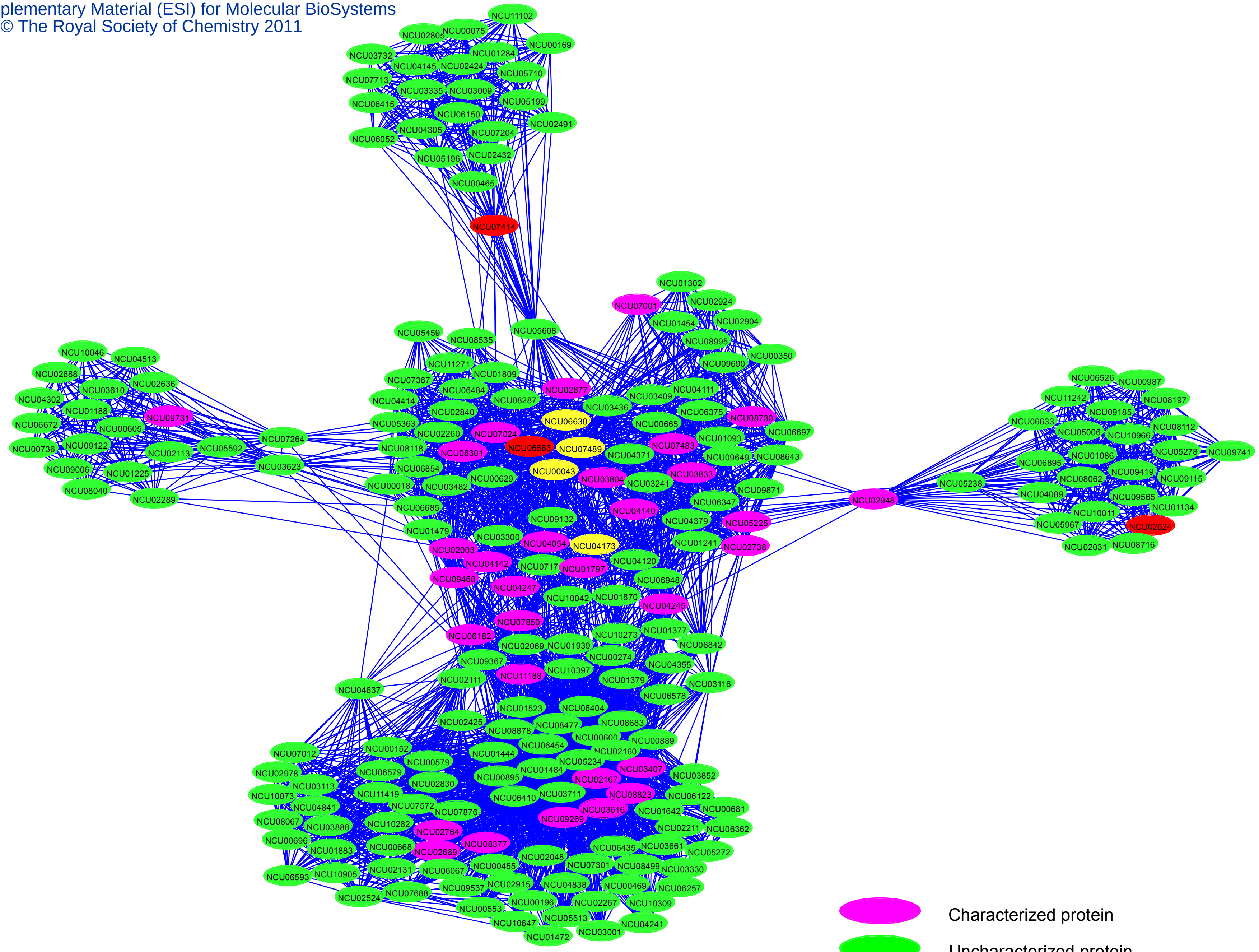

Randomized PPIs
Predicted PPIs
0.84
0.82
0.66
0.64
0.04
0.02
0
Fraction
0
0.2
0.4
0.6
0.8
1
Jaccard Index

Figure S2: The clock-related modules, which were ranked as top six, with MCODE score outweigh 5 were identified in the predicted PPI network of *N. crassa*. Interestingly, three modules (Modules 3, 5 and 6) were also identified by CFinder (http://www.cfinder.org). The description alongside each module is the enriched GO term identified by Fisher's exact test followed by the q-value false discovery rate (FDR) correction (http://genomics.princeton.edu/storeylab/qvalue/) with a cut-off of 0.01, and the corresponding corrected *P*-value is also listed. Characterized proteins (fuchsia nodes), uncharacterized proteins (green nodes), clock-controlled uncharacterized proteins (red nodes) and clock-controlled characterized proteins (yellow nodes). You can zoom in for a clear view. Note that Module 3 is not presented in this file, since it was already shown in the main text (Figure 4).



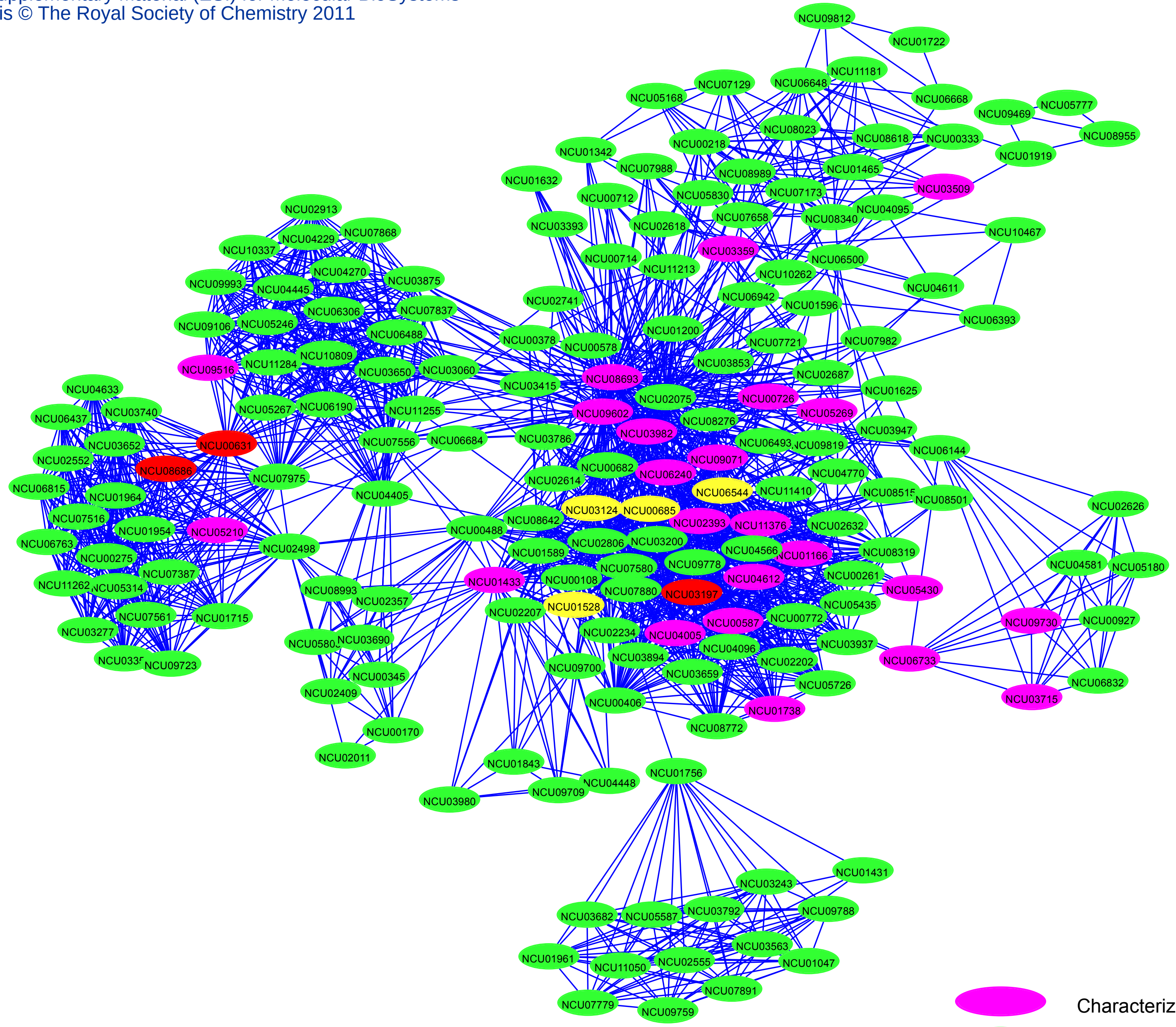
Module 1: biopolymer metabolic process, regulation of cellular process, regulation of catalytic activity *P*-value=1.28×10^{-26}

🟪 Characterized protein

🟩 Uncharacterized protein

🟥 Clock-controlled uncharacterized protein

🟨 Clock-controlled characterized protein



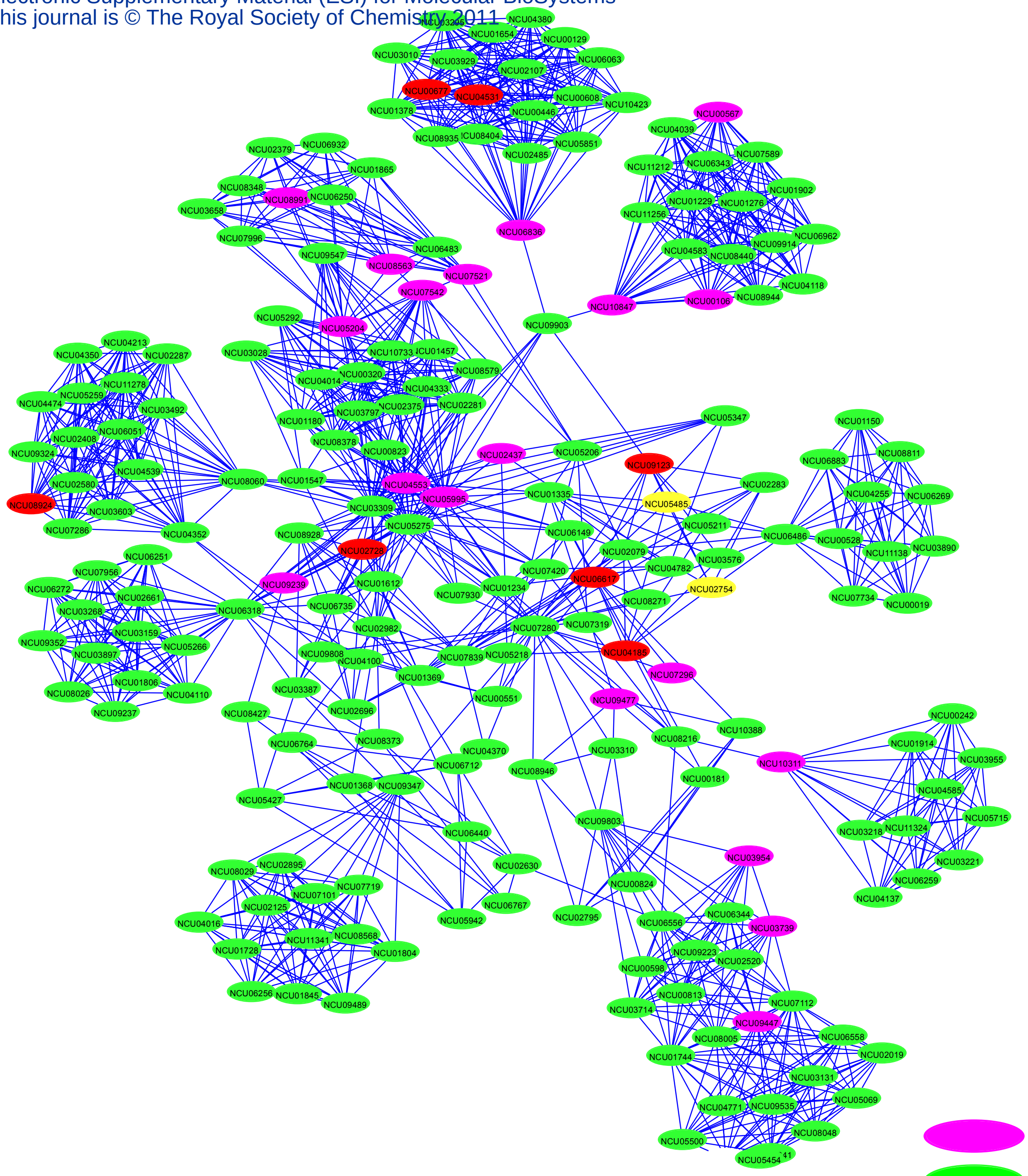
Module 2: Cellular macromolecule metabolic process,phosphorus metabolic process, biopolymer metabolic process P-value=7.23×10^{-15}

🟪 Characterized protein

🟩 Uncharacterized protein

🟥 Clock-controlled uncharacterized protein

🟨 Clock-controlled characterized protein



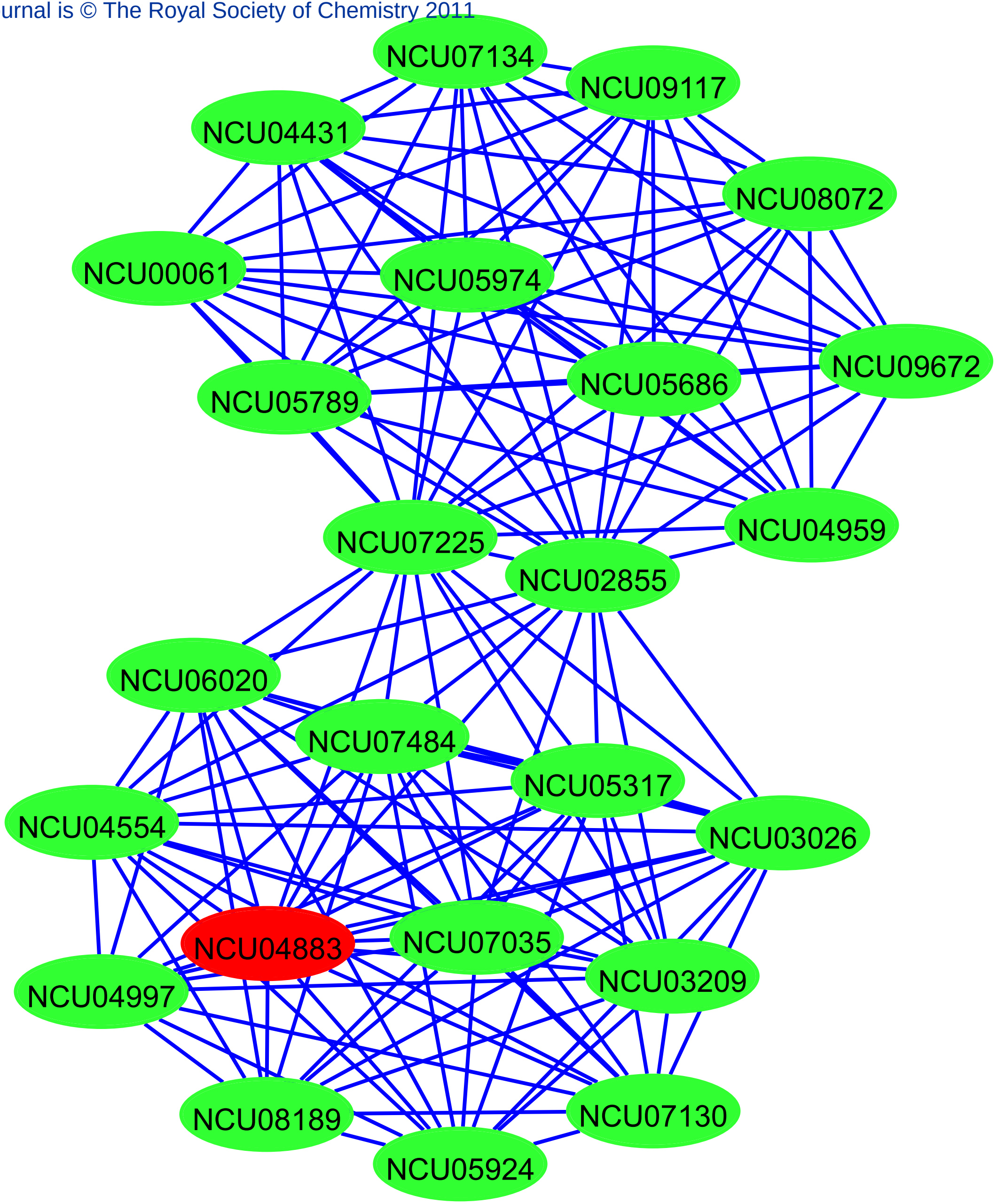
🟣 Characterized protein

🟢 Uncharacterized protein

🔴 Clock-controlled uncharacterized protein

🟡 Clock-controlled characterized protein

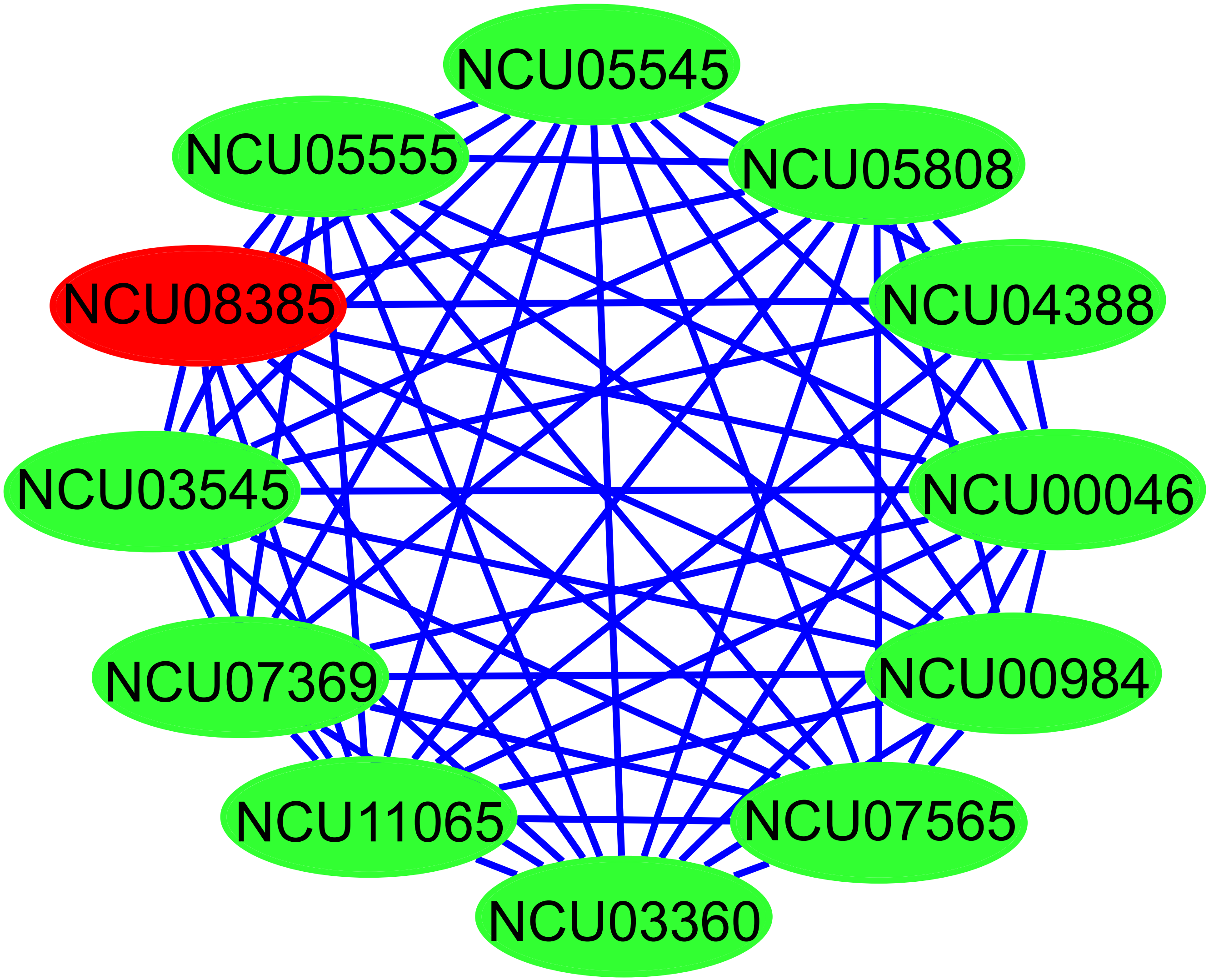
Module 4: Cellular macromolecule metabolic process, macromolecule catabolic process, regulation of cellular process P-value=1.35×10^{-8}



Module 5: Cell wall macromolecule metabolic process,
cell wall organization *P*-value=1.30×10^{-7}

🟥 Clock-controlled uncharacteried protein

🟩 Uncharacterized protein



Module 6: Protein binding *P*-value=1.05×10^{-10}

🟥 Clock-controlled uncharacterized protein

🟩 Uncharacterized protein