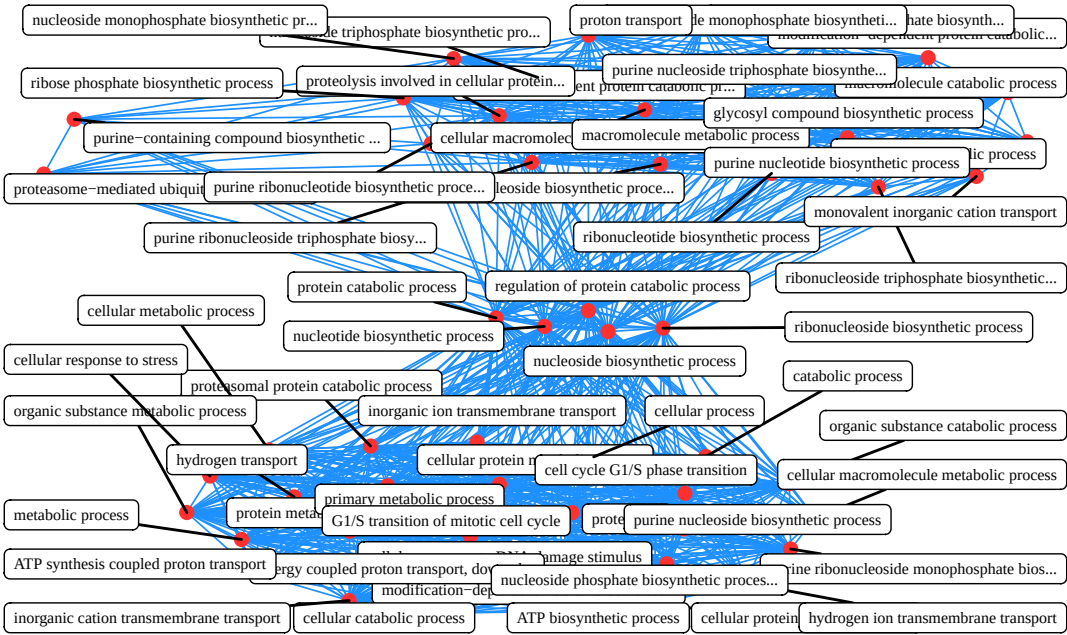Functional network of essential protein cluster