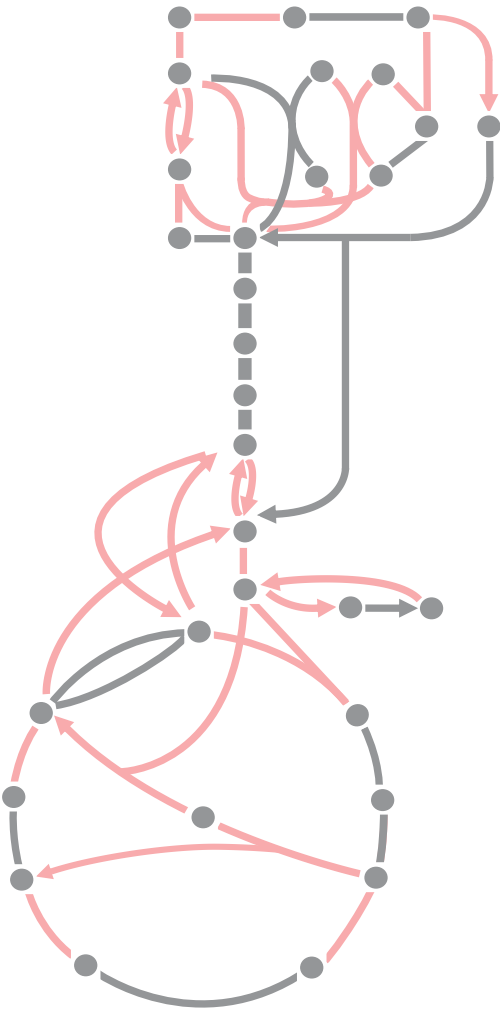
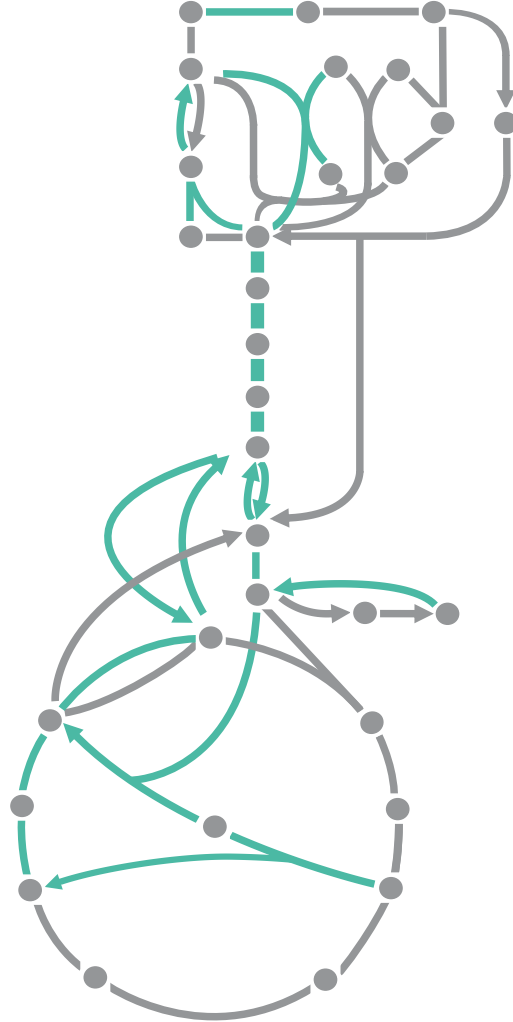


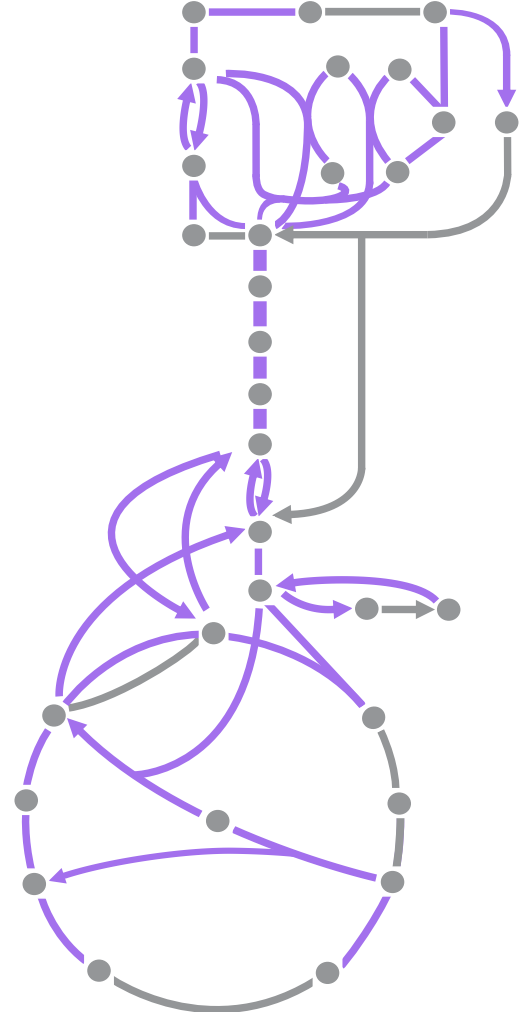
metabolite-enzyme  
interactions



transcriptional  
metabolite signals



combined



- only metabolite-enzyme interaction
- only transcriptional metabolite signal
- any metabolite mediated regulation