

Figure S3a. Metabolic pathways underrepresented in *Proteobacteria* cell envelopes of CDIC microbiota, compared to controls.

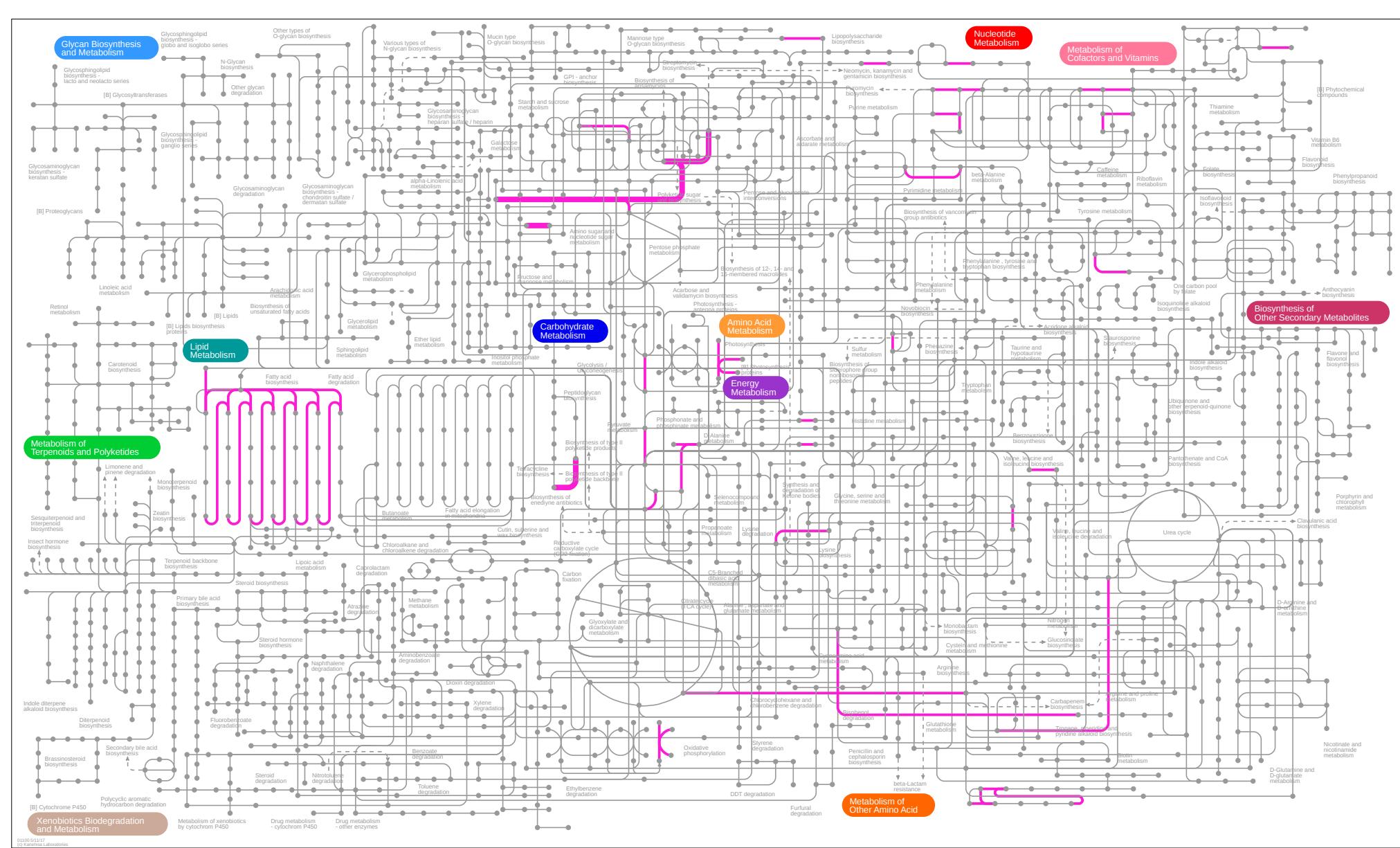


Figure S3b. Metabolic pathways underrepresented in *Proteobacteria* cell envelopes of CDC microbiota, compared to controls.

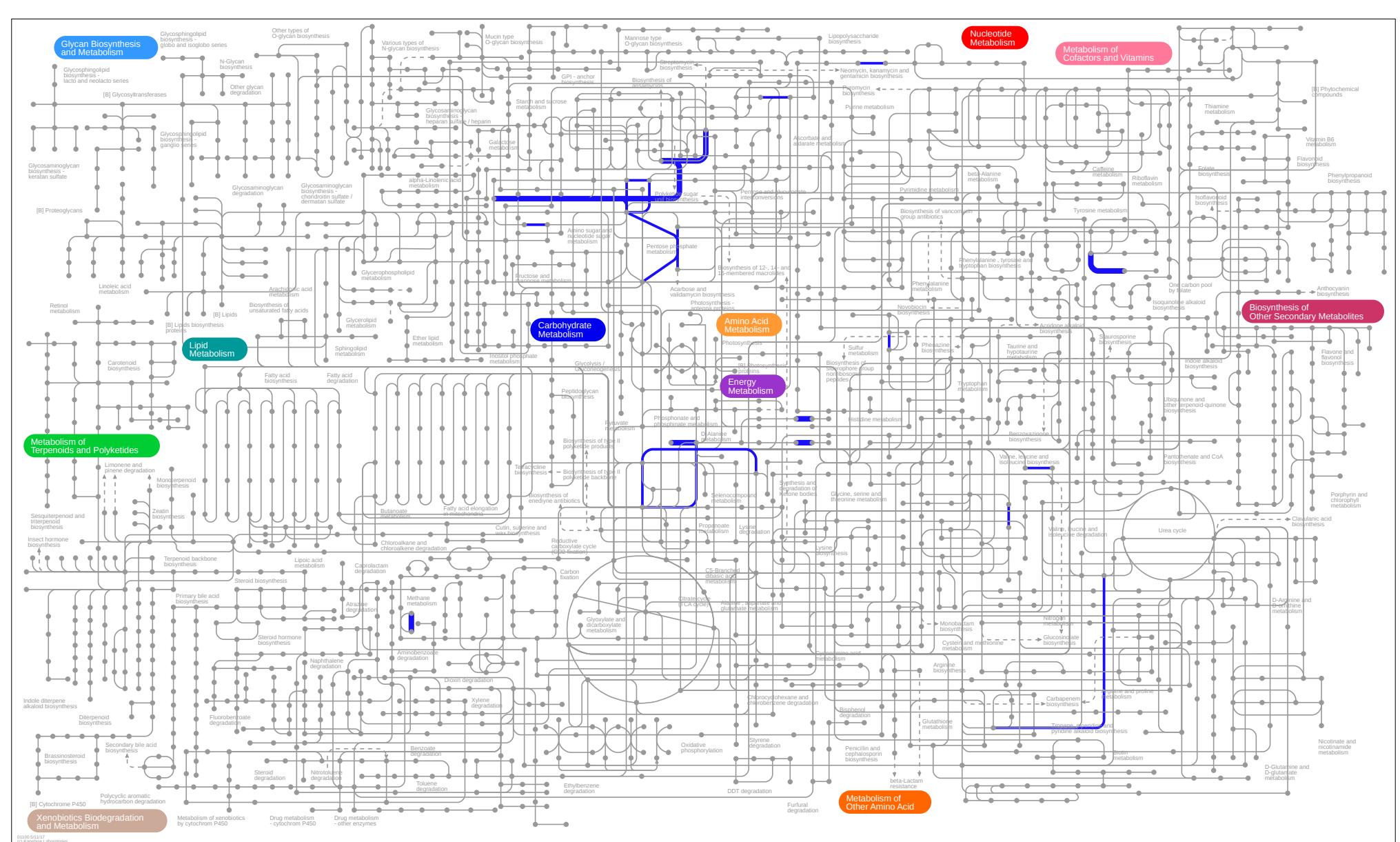


Figure S3c. Metabolic pathways underrepresented in *Proteobacteria* cell envelopes of UC microbiota, compared to controls.

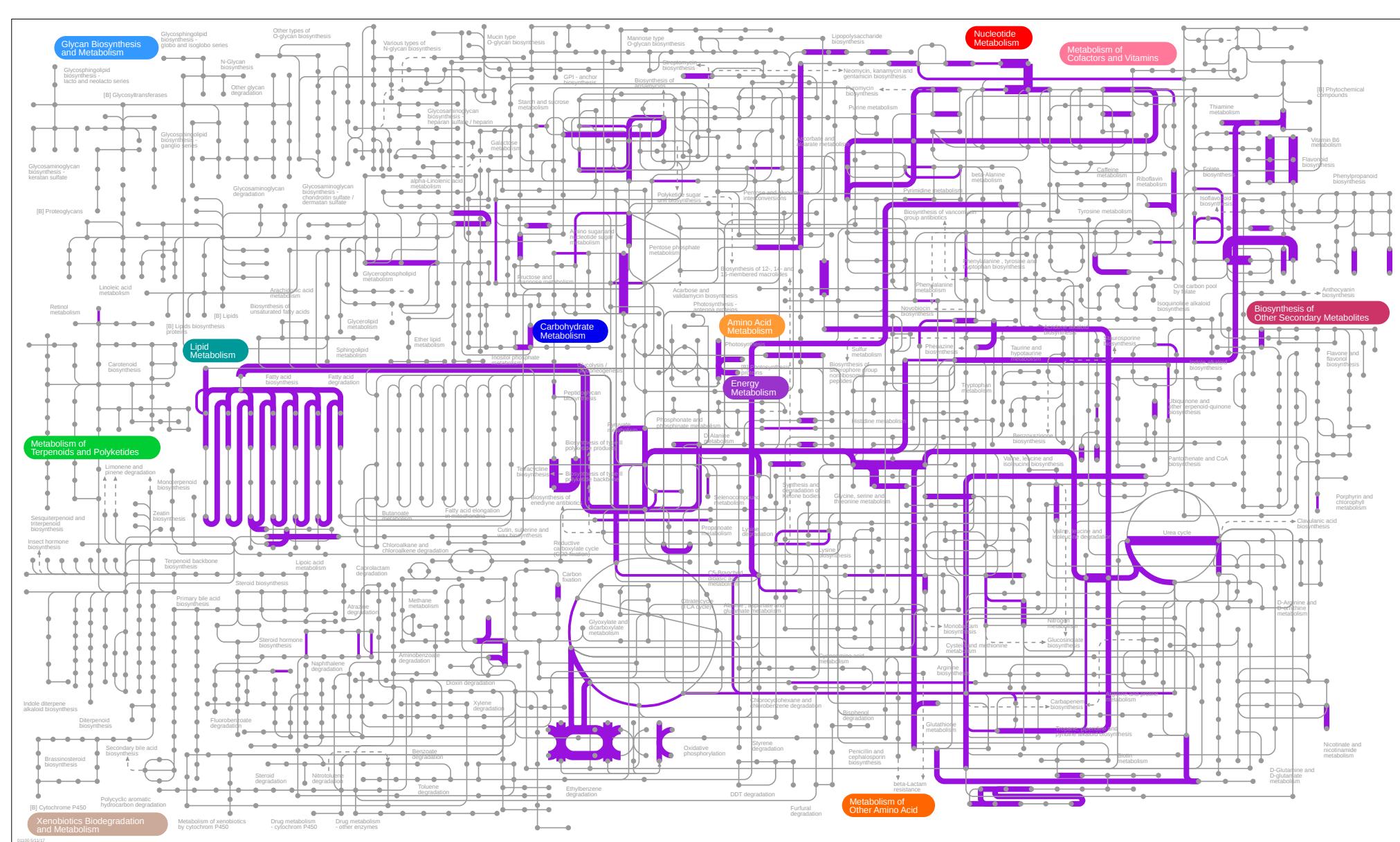


Figure S3d. Metabolic pathways overrepresented in *Proteobacteria* cell envelopes of CDIC microbiota, compared to controls.

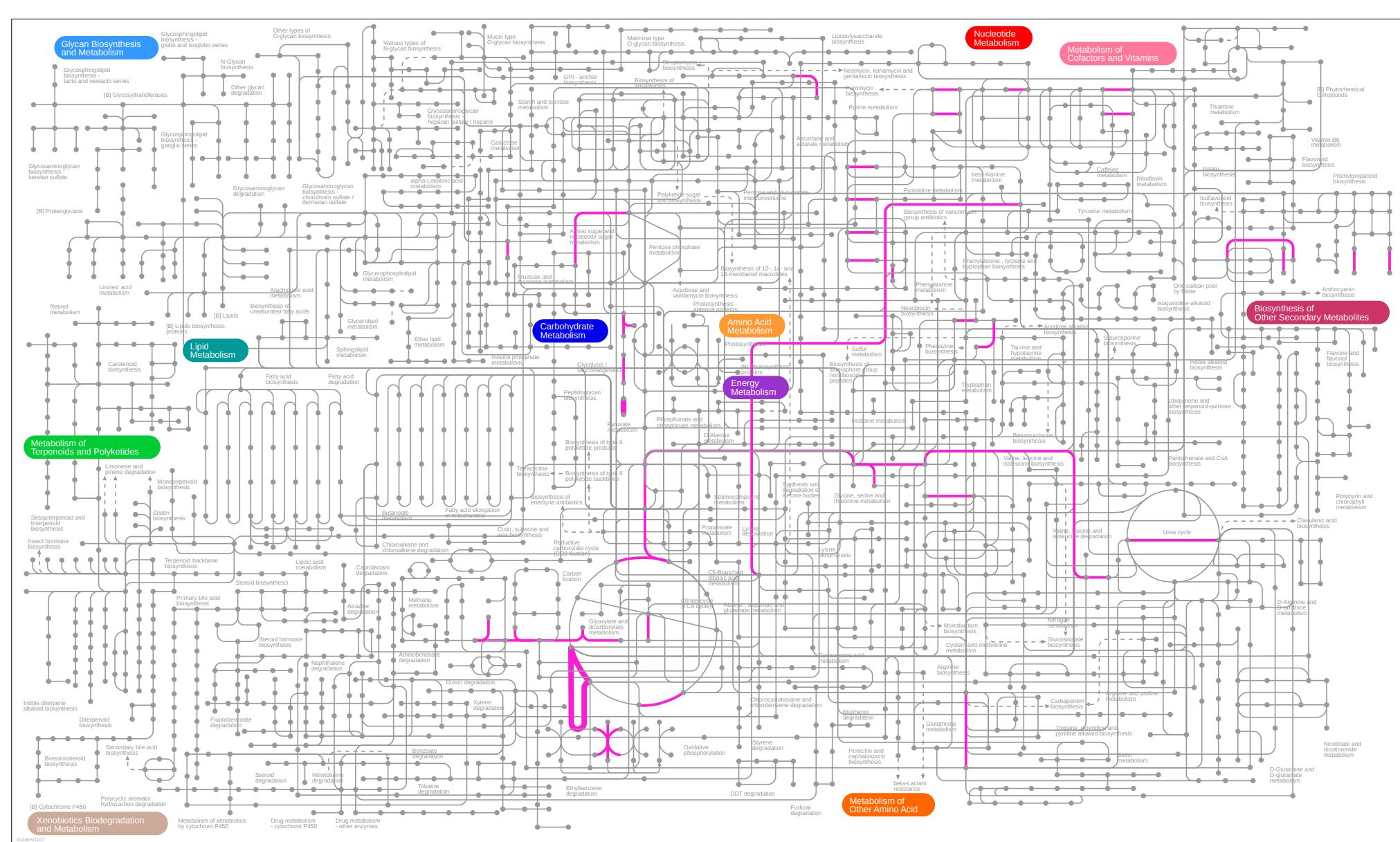


Figure S3e. Metabolic pathways overrepresented in *Proteobacteria* cell envelopes of CDC microbiota, compared to controls.

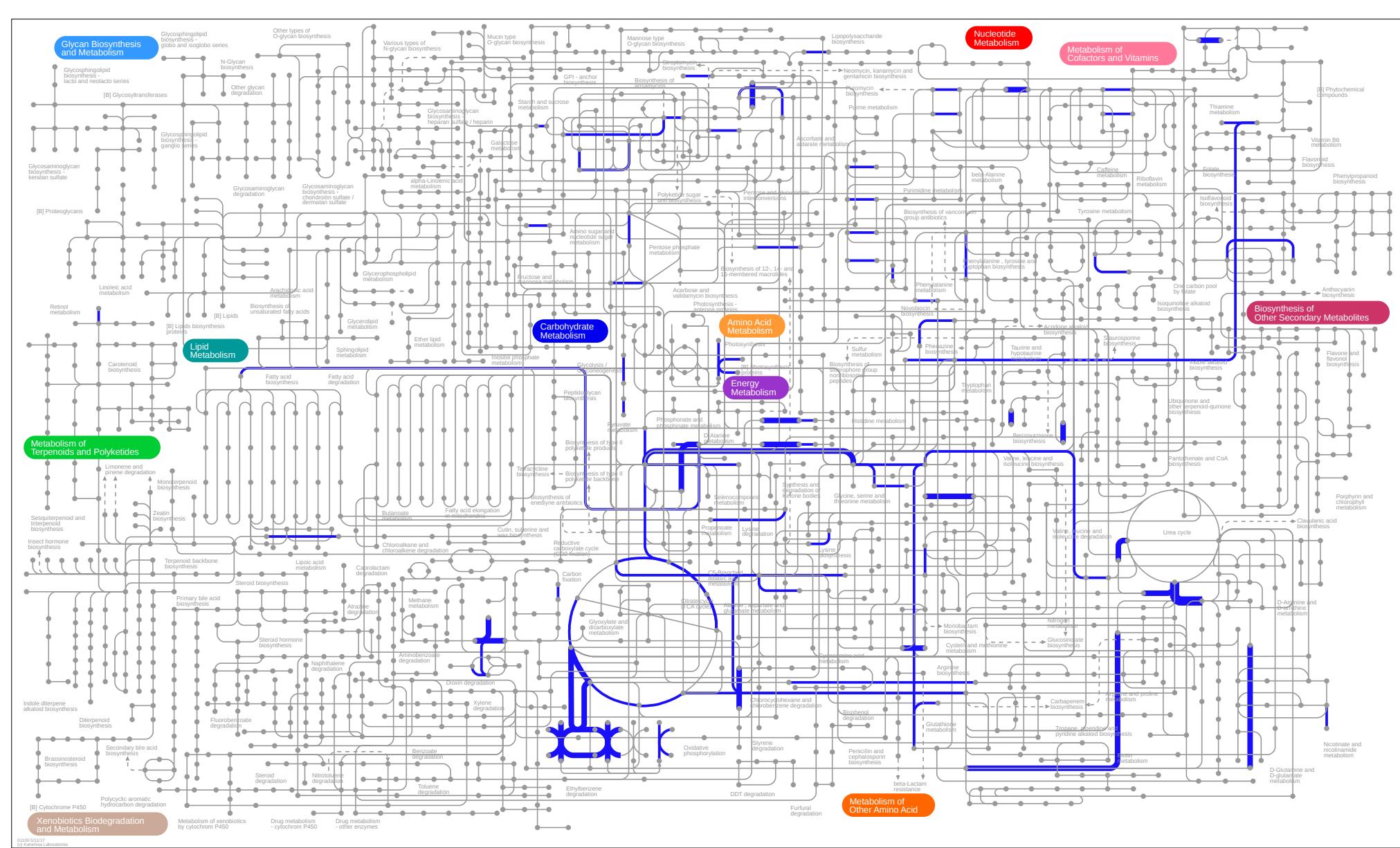


Figure S3f. Metabolic pathways overrepresented in *Proteobacteria* cell envelopes of UC microbiota, compared to controls.

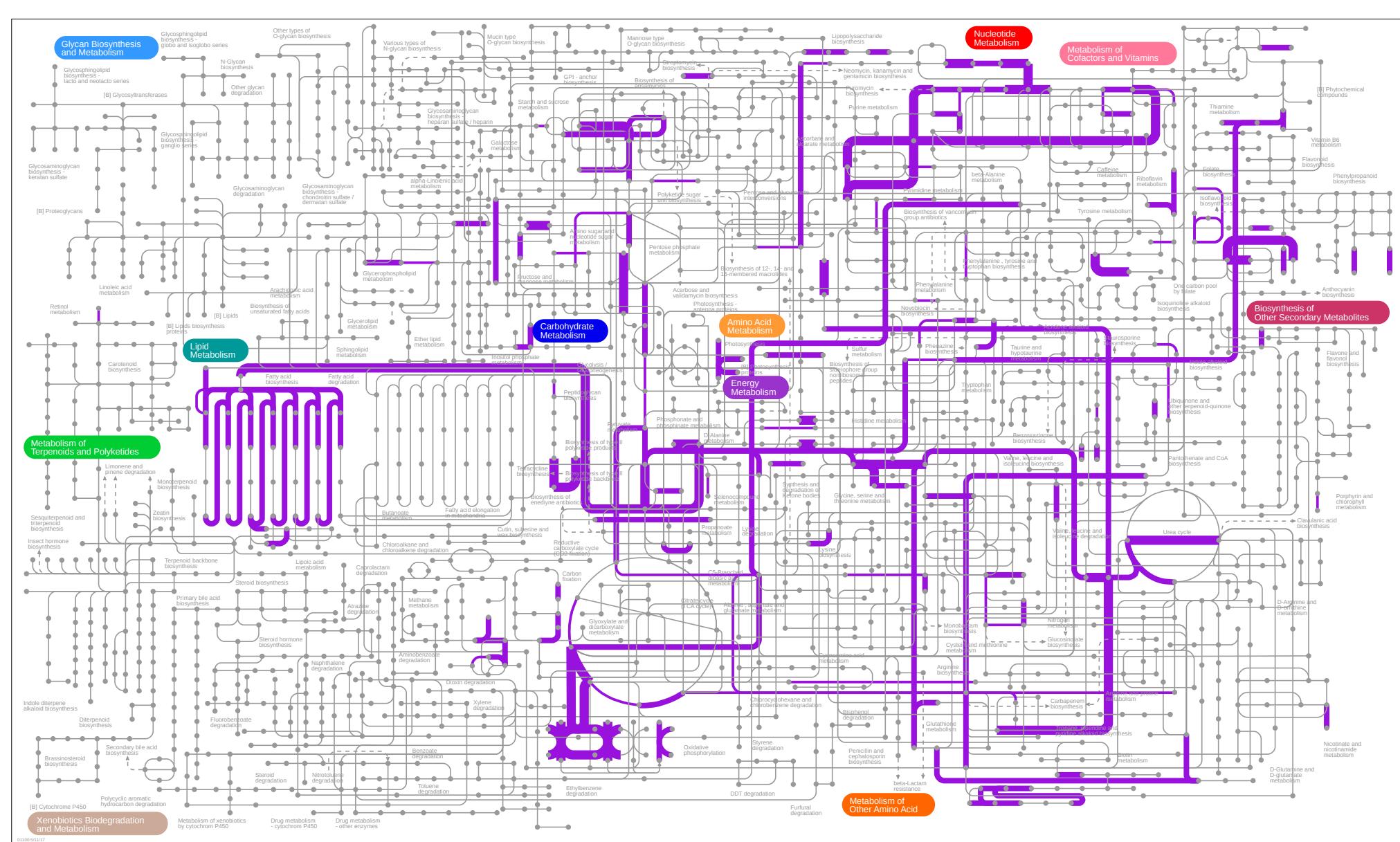


Figure S3g. Metabolic pathways overrepresented in *E. coli* cell envelopes of CDIC microbiota, compared to control.

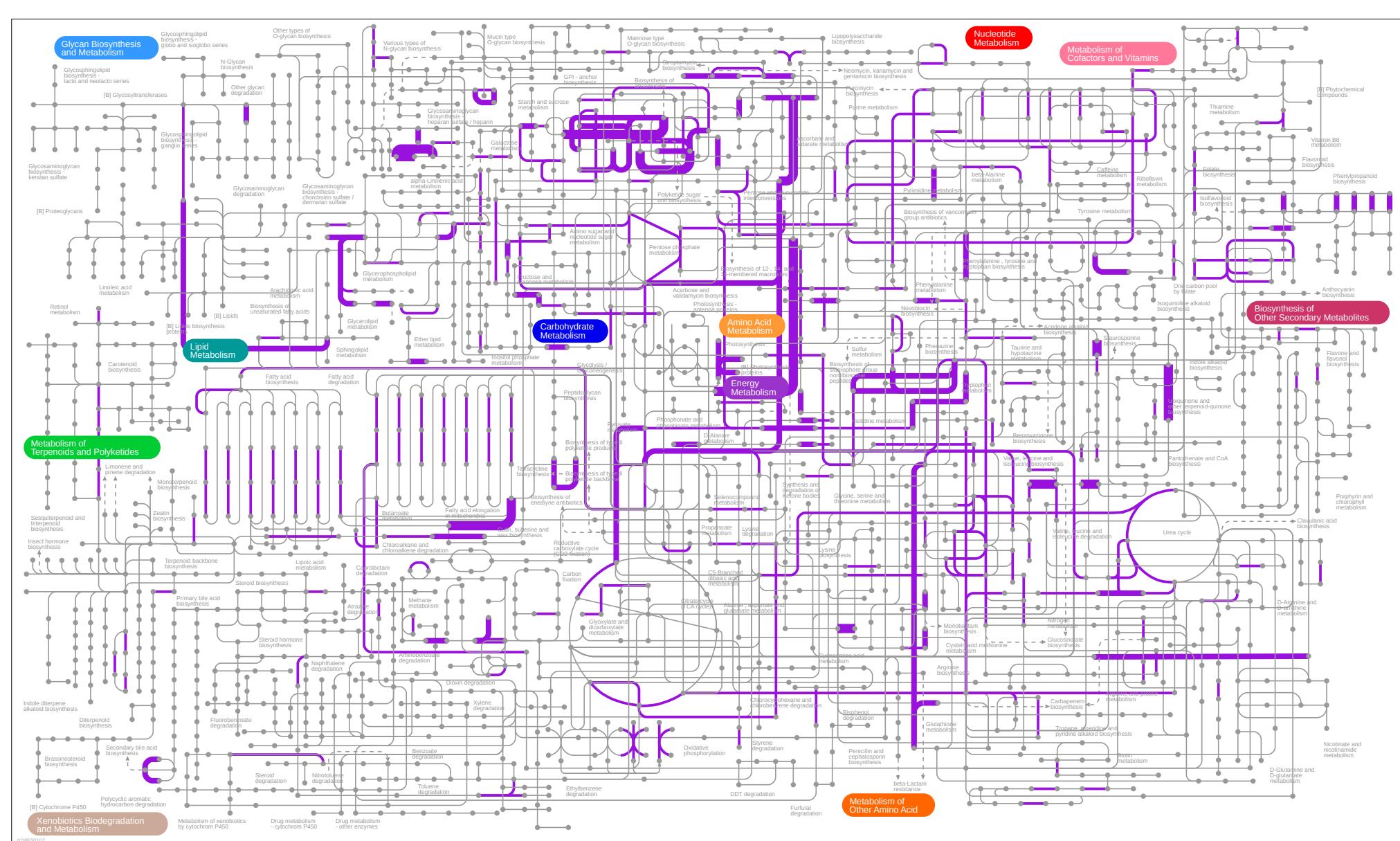


Figure S3h. Metabolic pathways underrepresented in *Firmicutes* cell envelopes of CDIC microbiota, compared to controls.

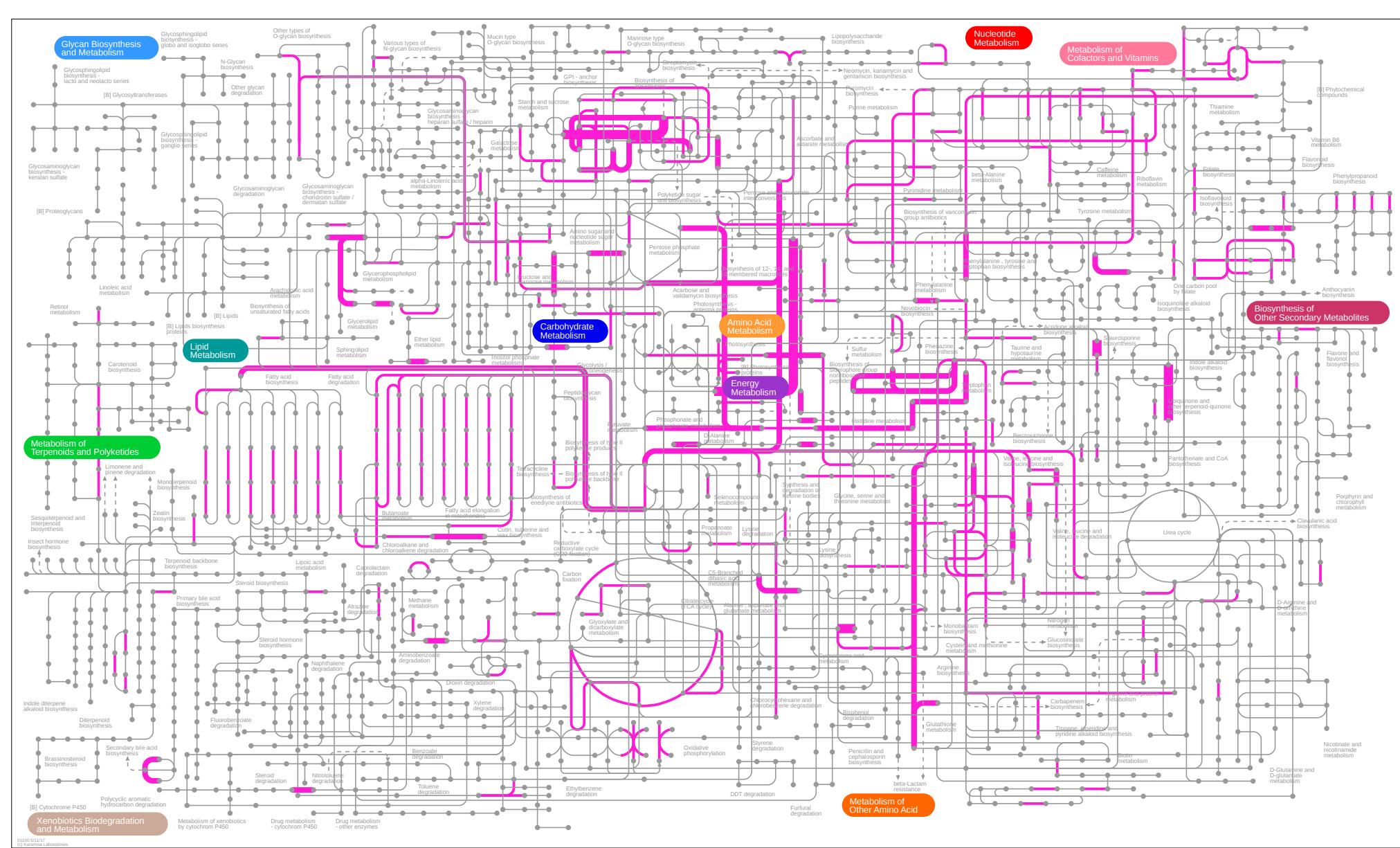


Figure S3i. Metabolic pathways underrepresented in *Firmicutes* cell envelopes of CDC microbiota, compared to controls.

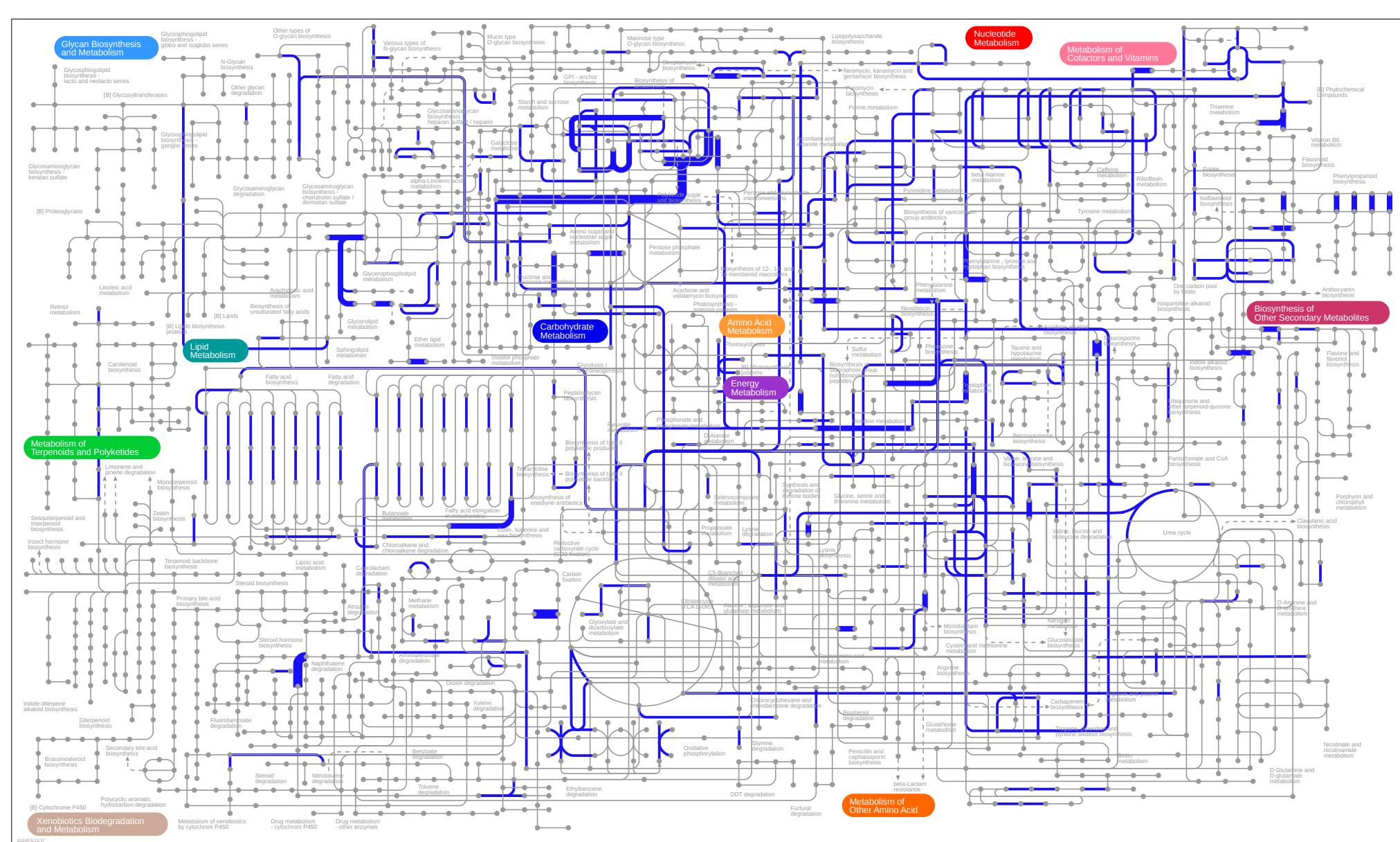


Figure S3j. Metabolic pathways underrepresented in *Firmicutes* cell envelopes of UC microbiota, compared to controls.

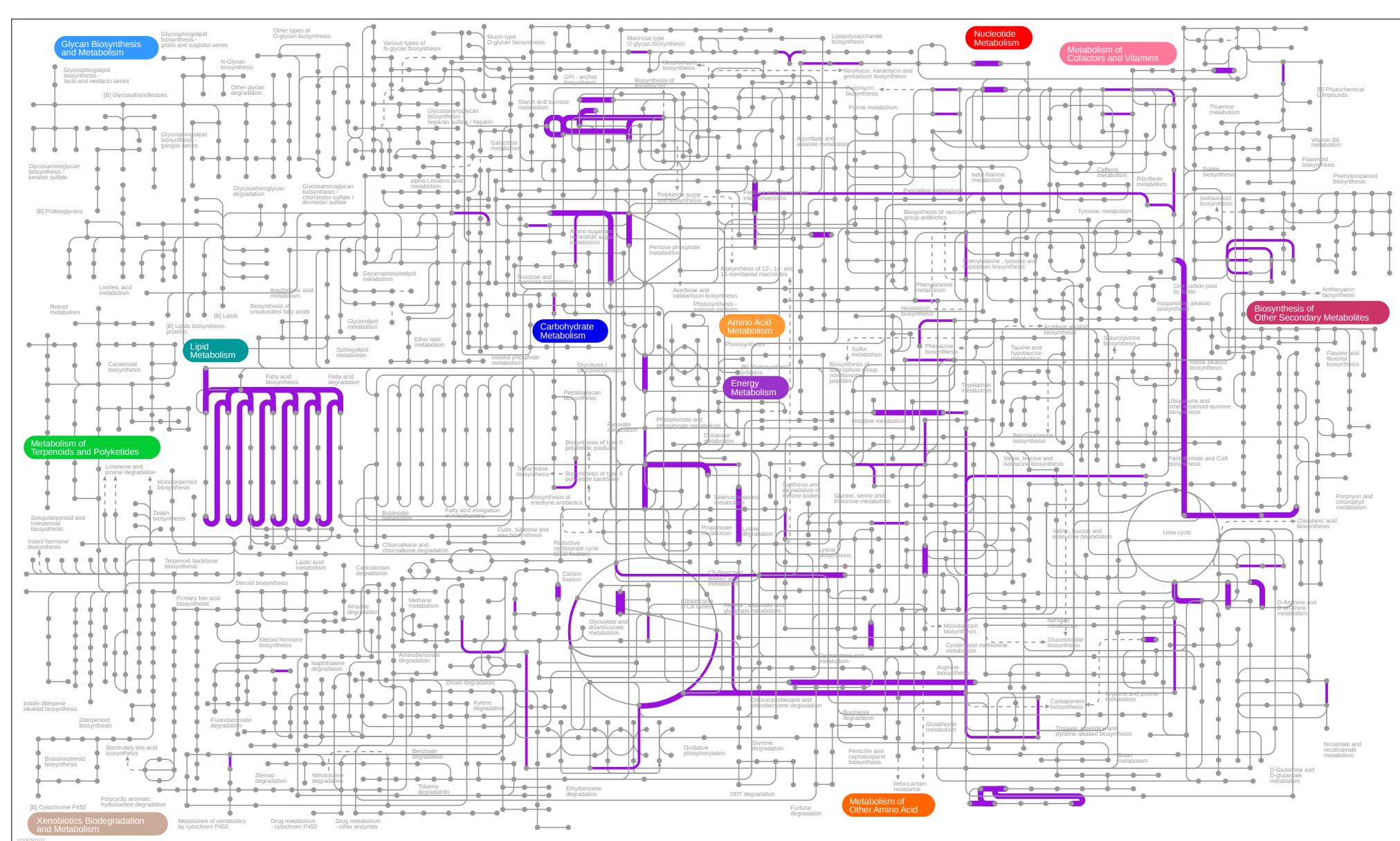


Figure S3k. Metabolic pathways overrepresented in *Firmicutes* cell envelopes of CDIC microbiota, compared to controls.

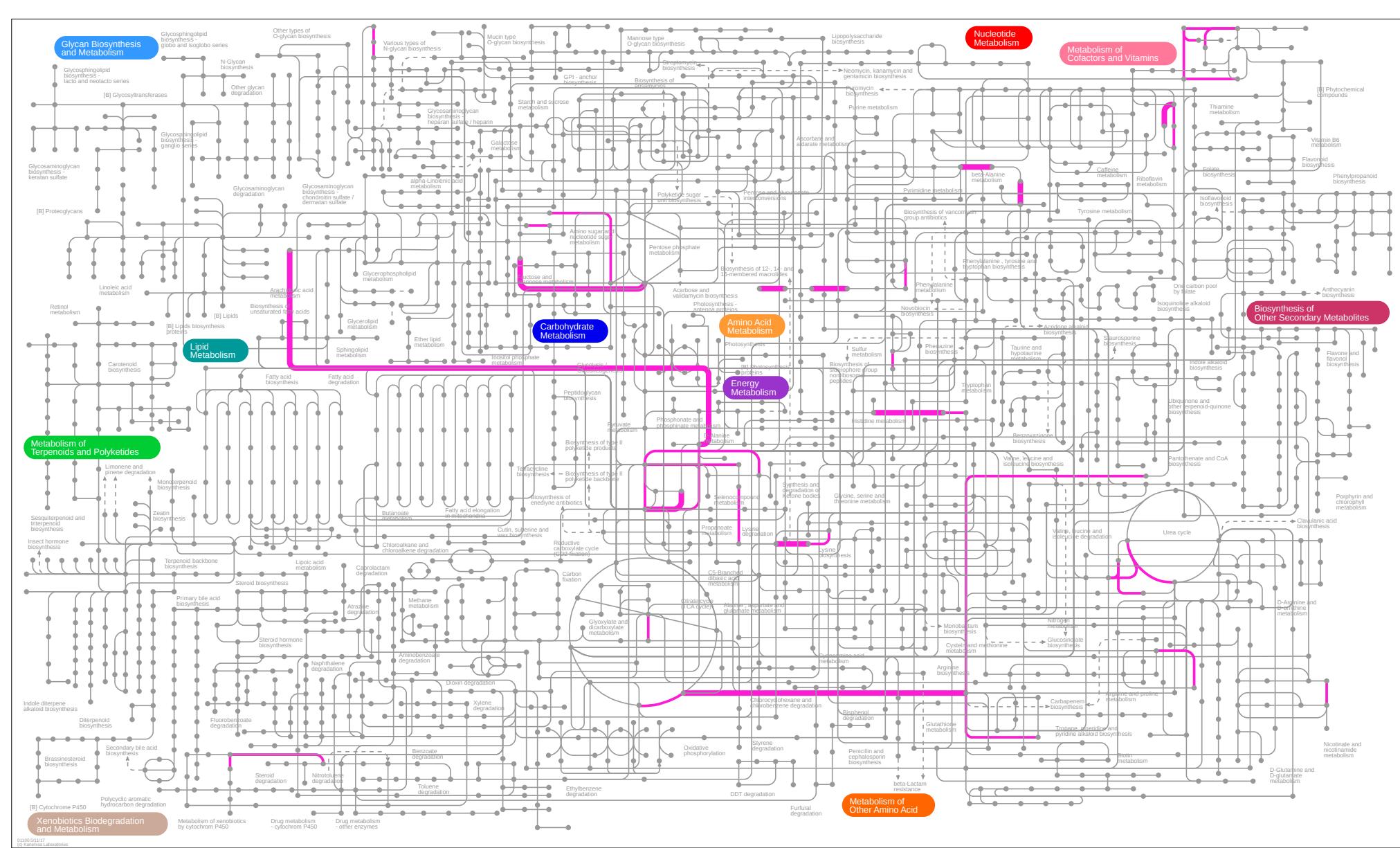


Figure S31. Metabolic pathways overrepresented in *Firmicutes* cell envelopes of CDC microbiota, compared to controls.

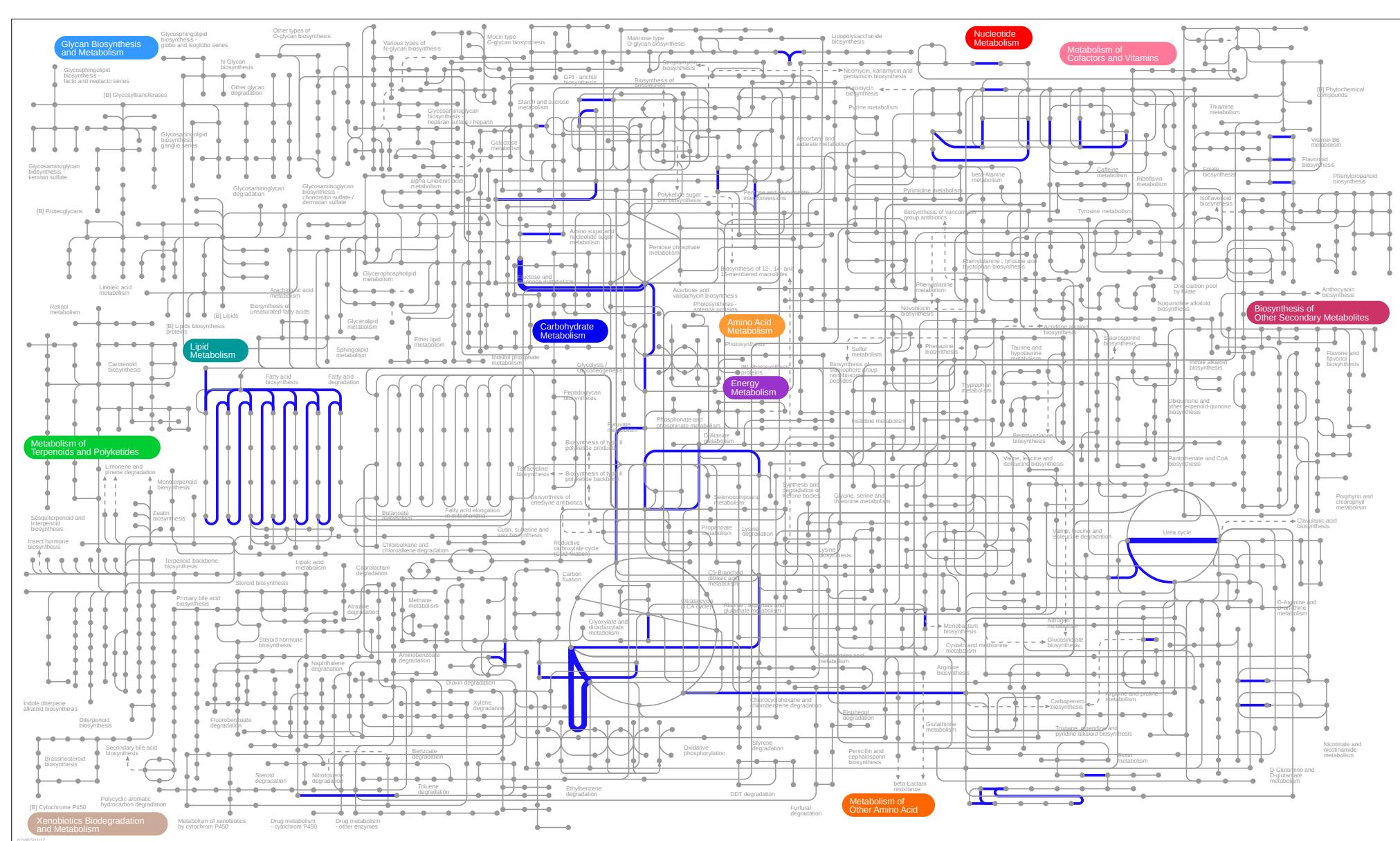


Figure S3m. Metabolic pathways overrepresented in *Firmicutes* cell envelopes of UC microbiota, compared to controls.

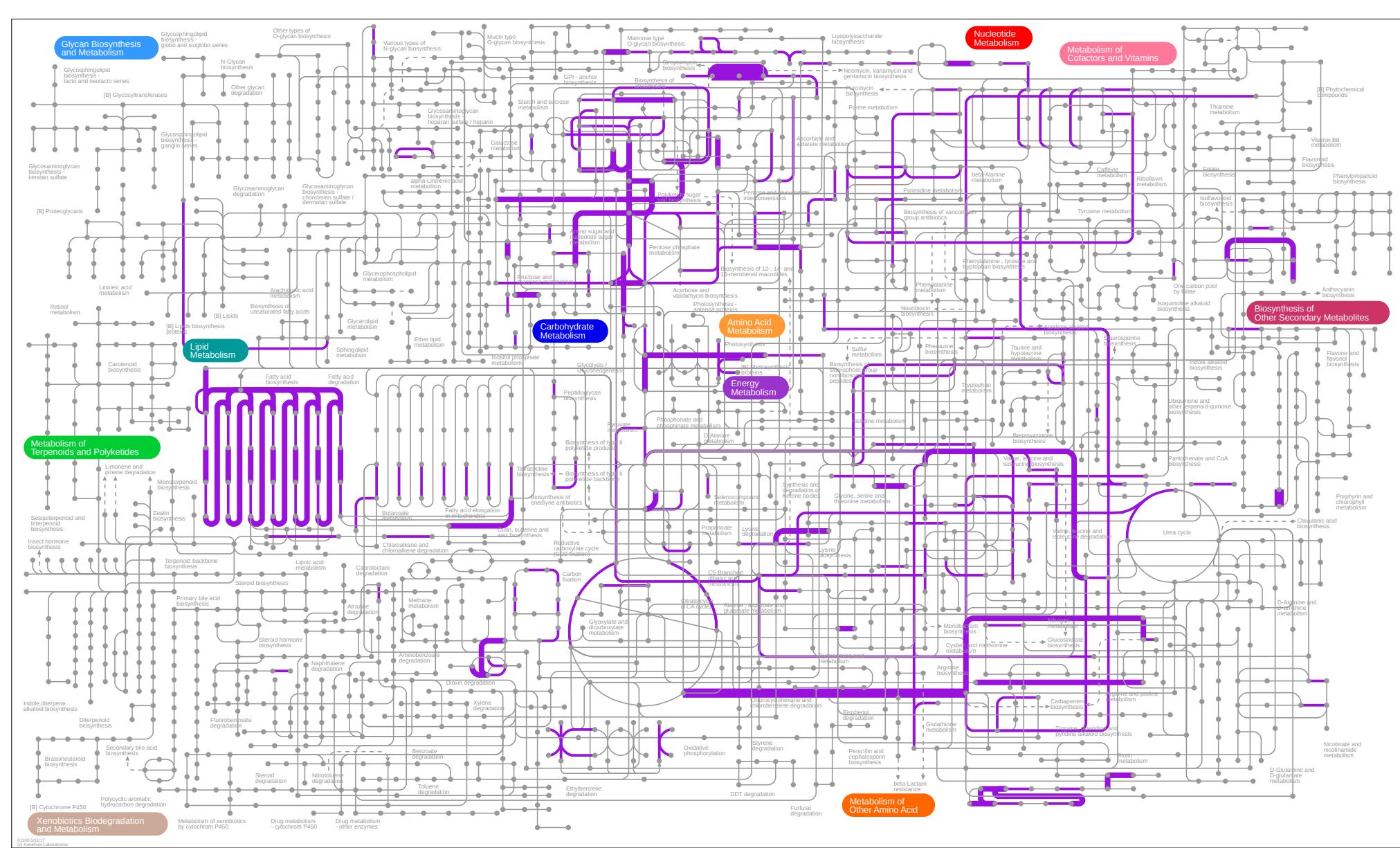


Figure S3n. Metabolic pathways underrepresented in *Bacteroidetes* cell envelopes of CDIC microbiota, compared to controls.

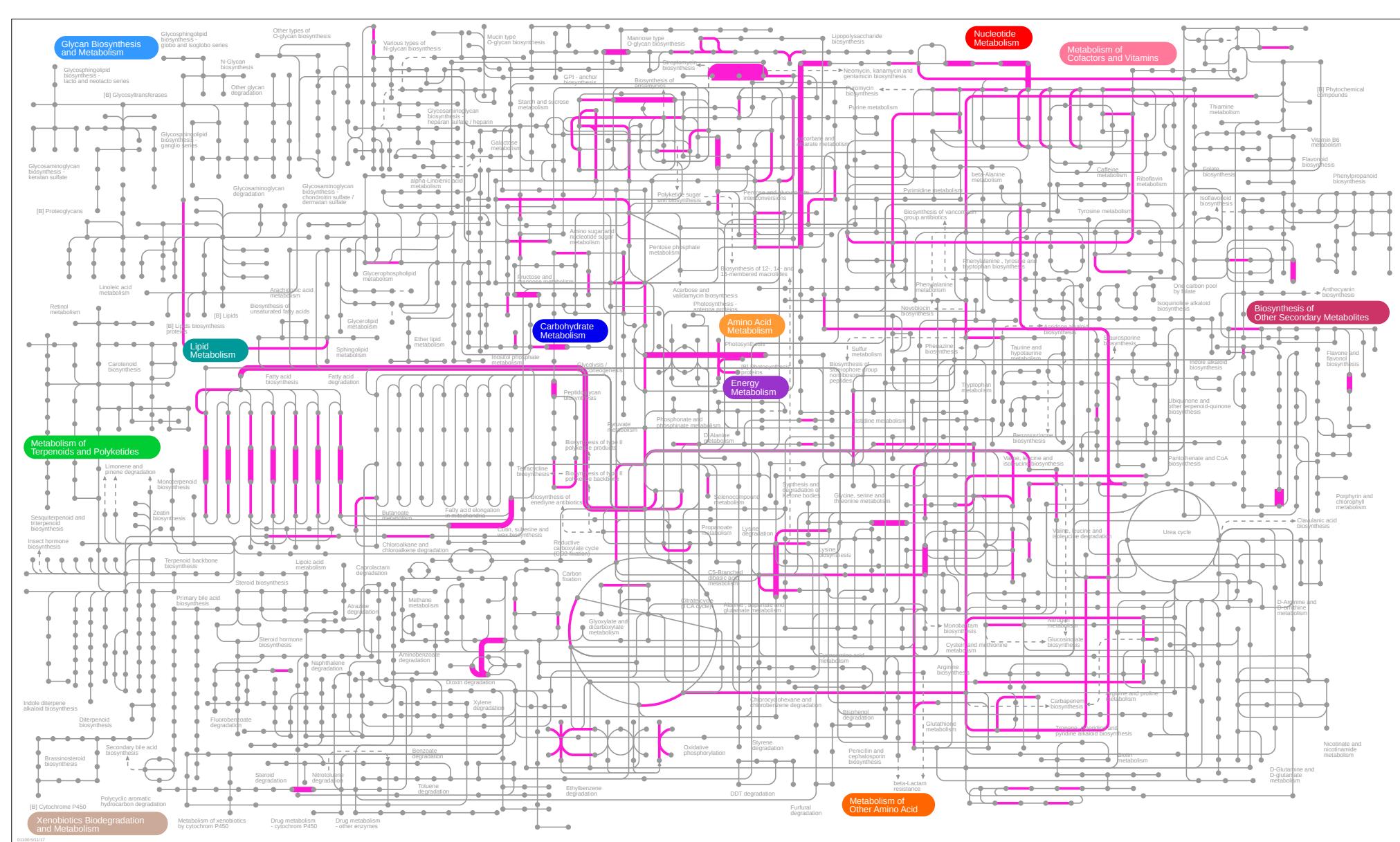


Figure S3o. Metabolic pathways underrepresented in *Bacteroidetes* cell envelopes of CDC microbiota, compared to controls.

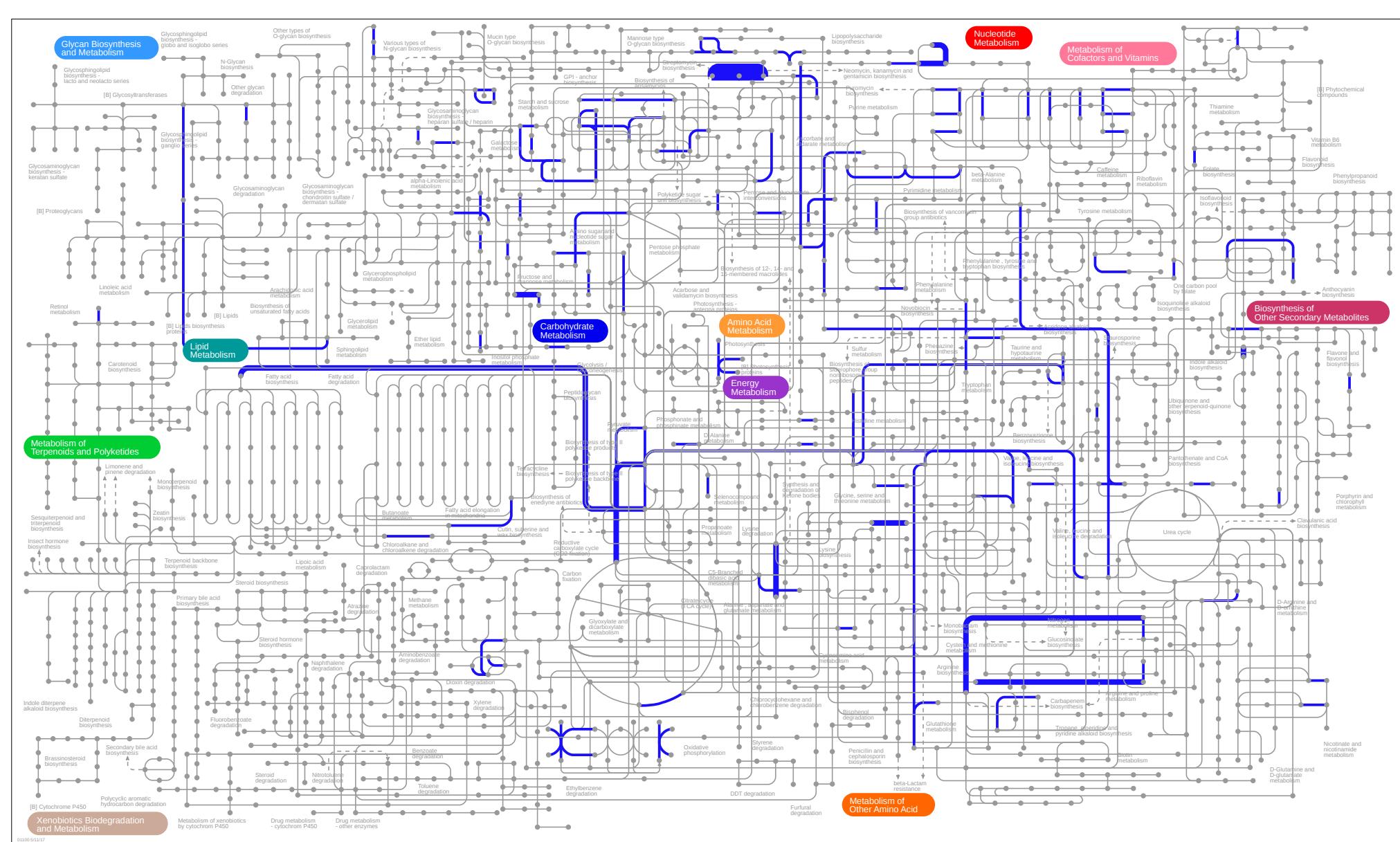


Figure S3p. Metabolic pathways underrepresented in *Bacteroidetes* cell envelopes of UC microbiota, compared to controls.

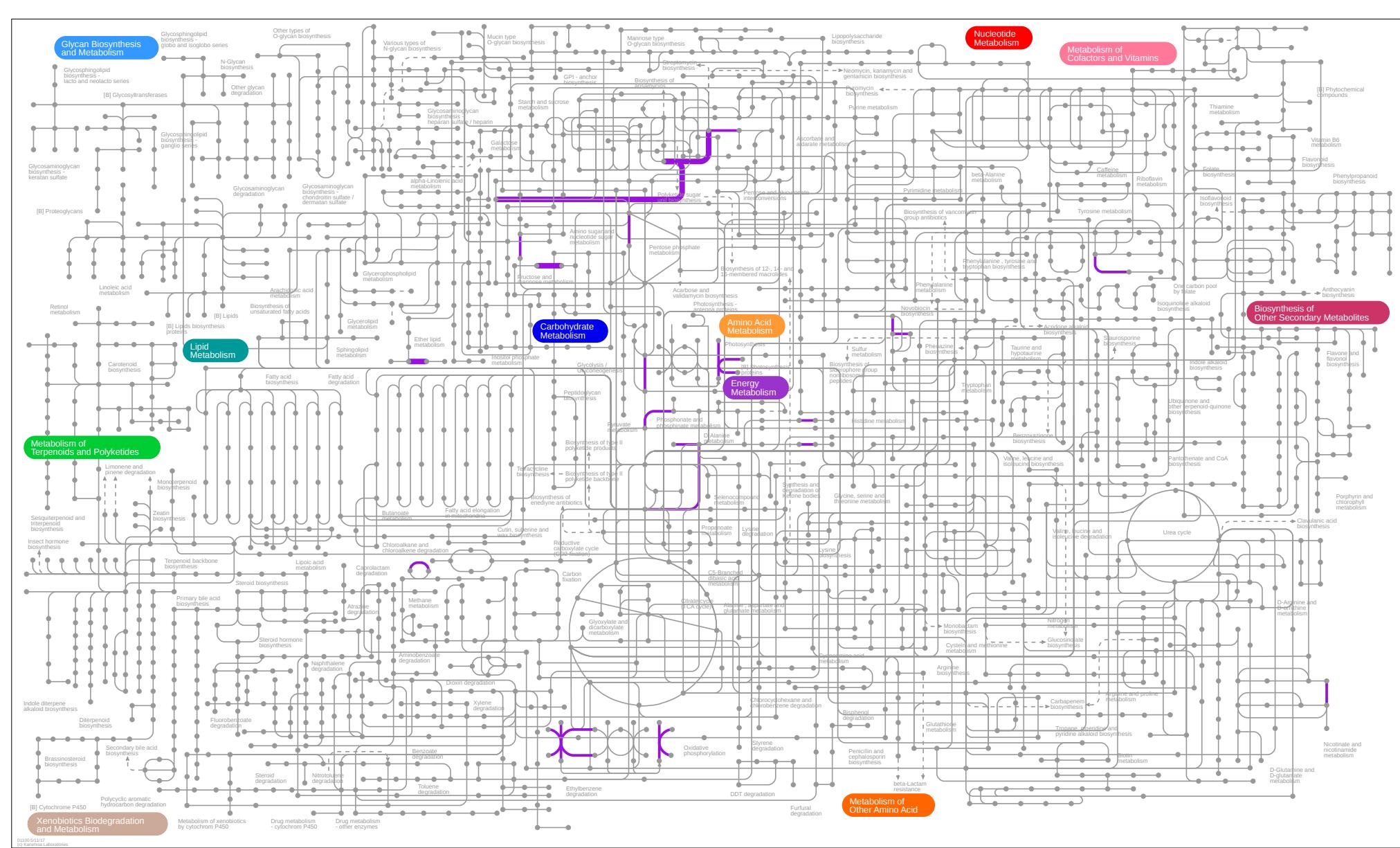


Figure S3q. Metabolic pathways overrepresented in *Bacteroidetes* cell envelopes of CDIC microbiota, compared to controls.

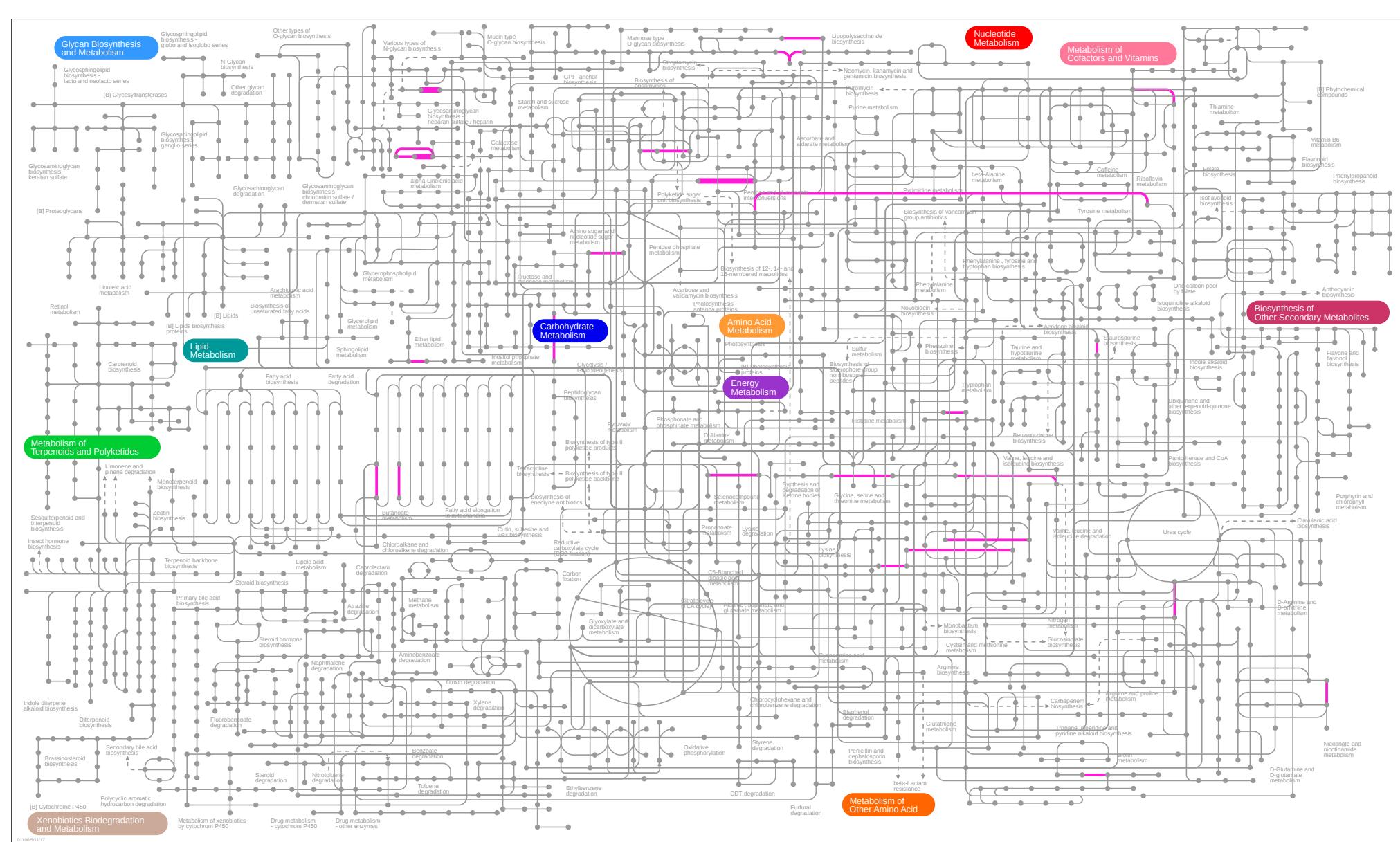


Figure S3r. Metabolic pathways overrepresented in *Bacteroidetes* cell envelopes of CDC microbiota, compared to controls.

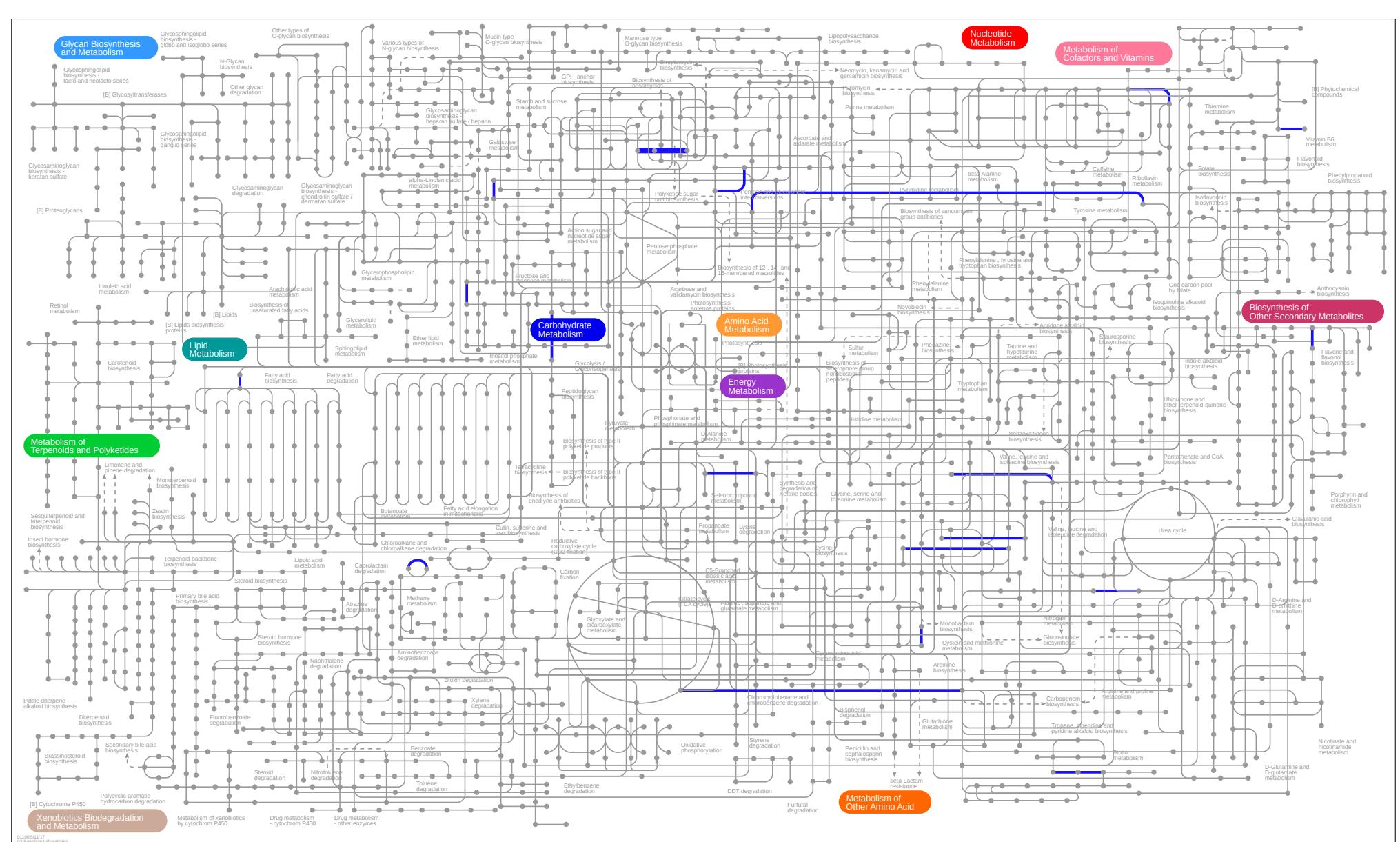


Figure S3s. Metabolic pathways overrepresented in *Bacteroidetes* cell envelopes of UC microbiota, compared to controls.

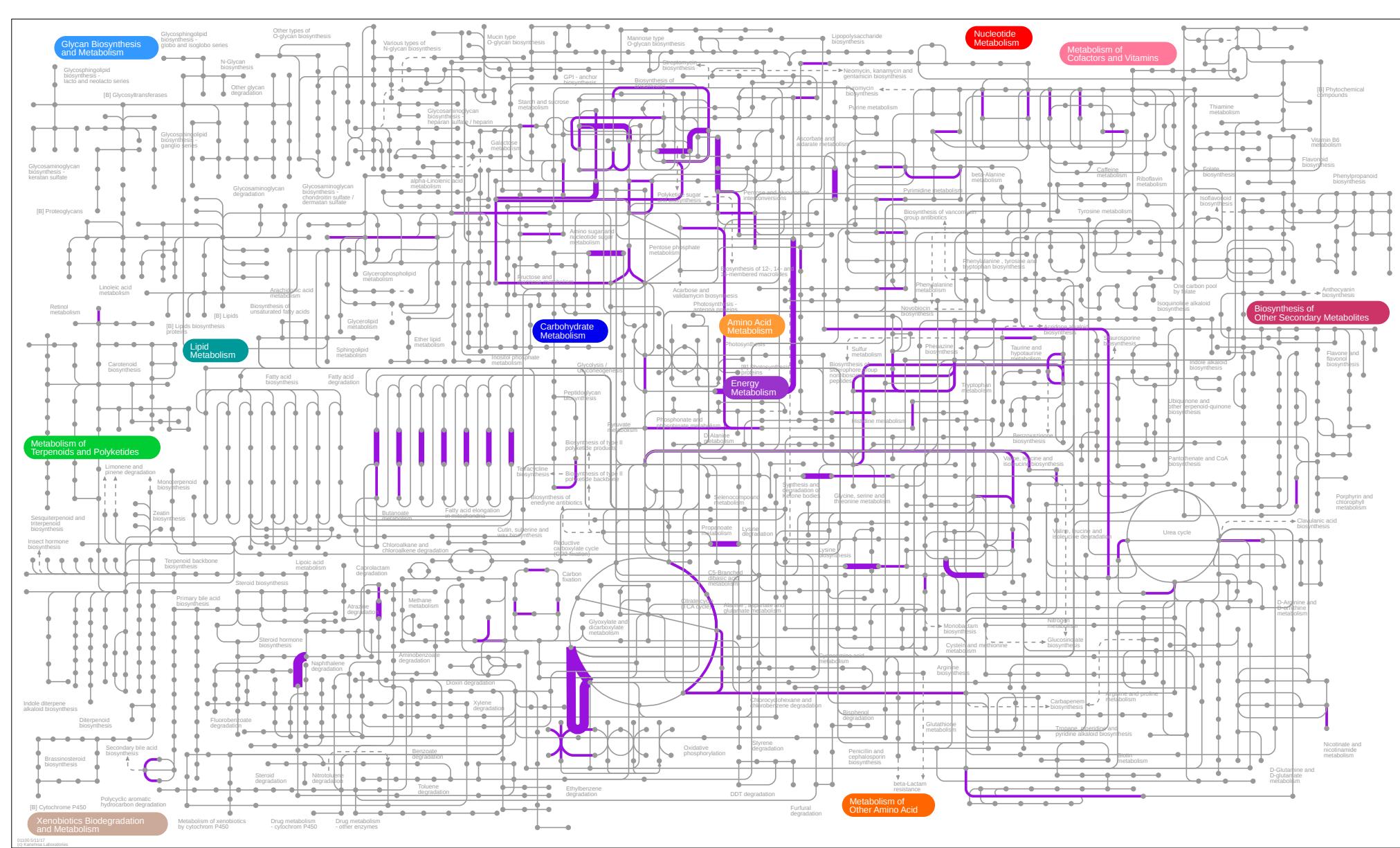


Figure S3t. Metabolic pathways underrepresented in *Actinobacteria* cell envelopes of CDIC microbiota, compared to controls.

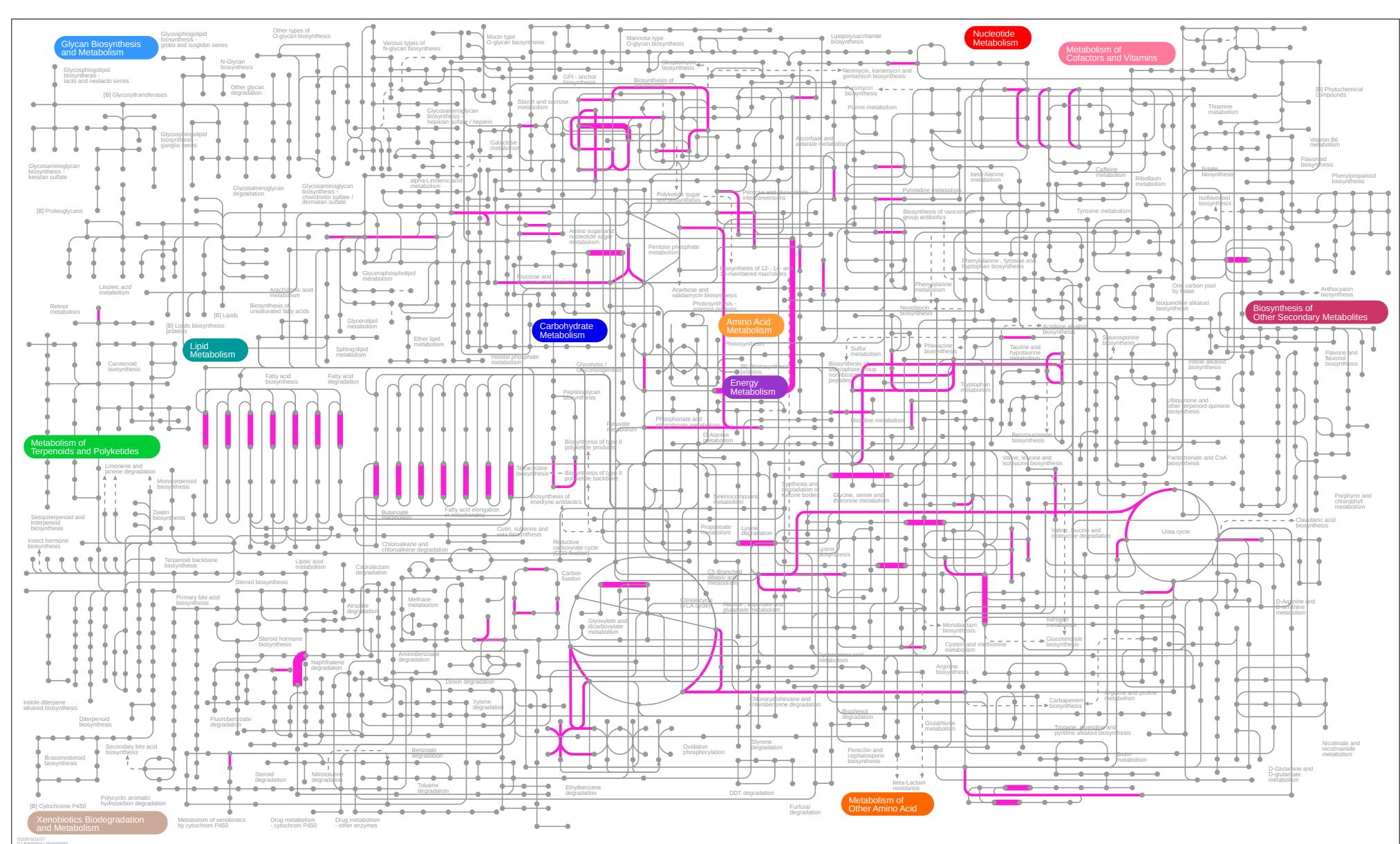


Figure S3u. Metabolic pathways underrepresented in *Actinobacteria* cell envelopes of CDC microbiota, compared to controls.

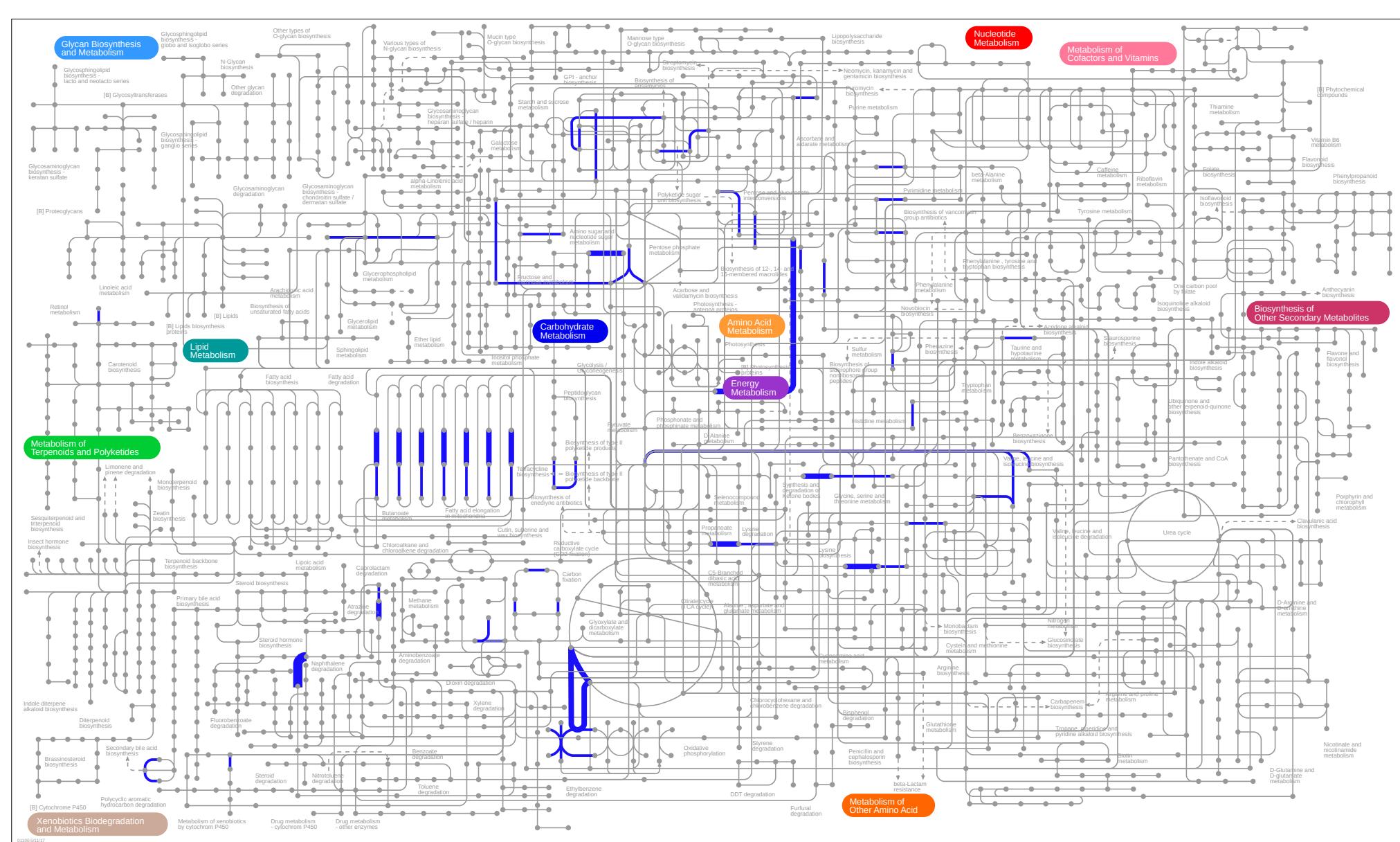


Figure S3v. Metabolic pathways underrepresented in *Actinobacteria* cell envelopes of UC microbiota, compared to controls.

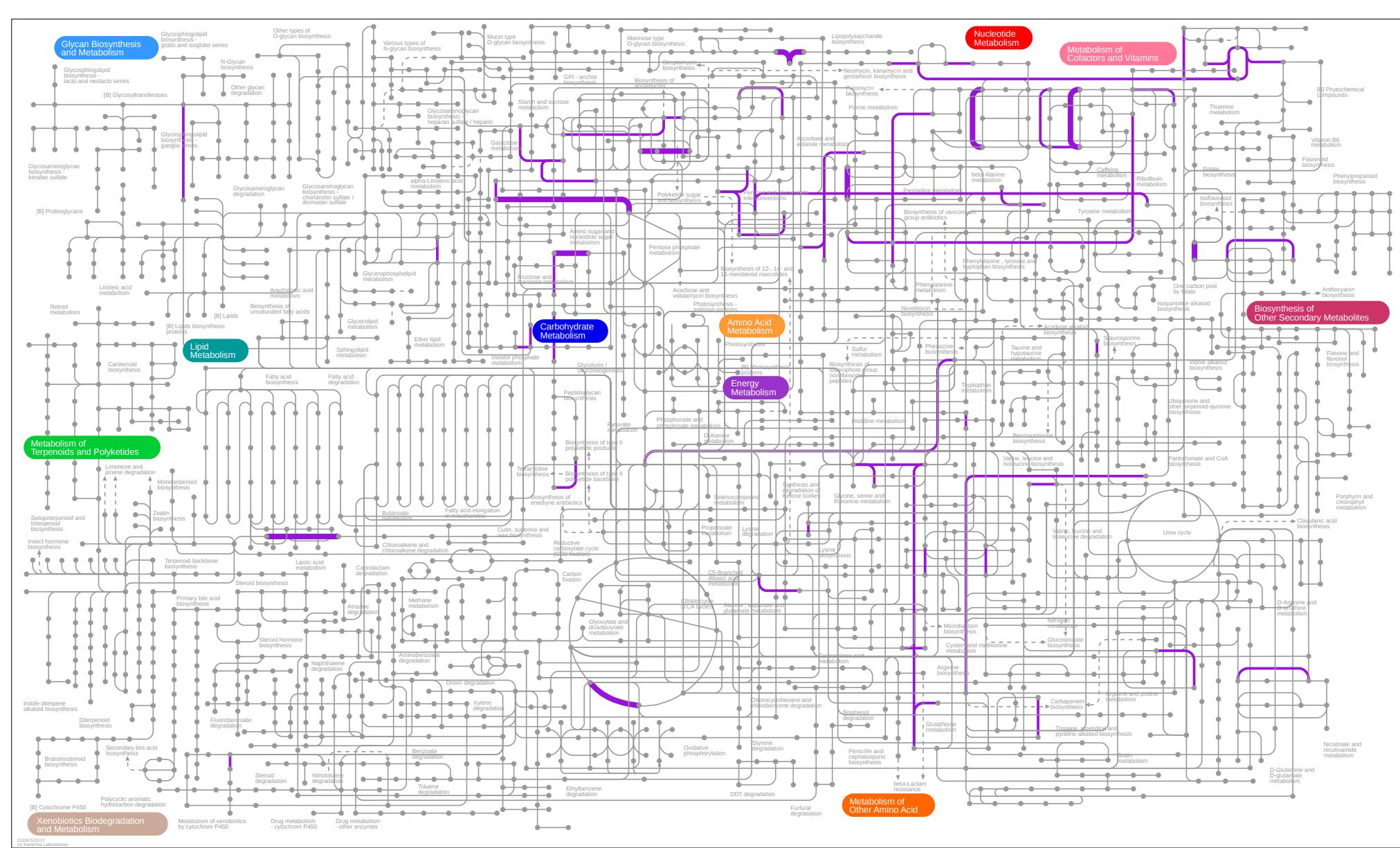


Figure S3w. Metabolic pathways overrepresented in *Actinobacteria* cell envelopes of CDIC microbiota, compared to controls.

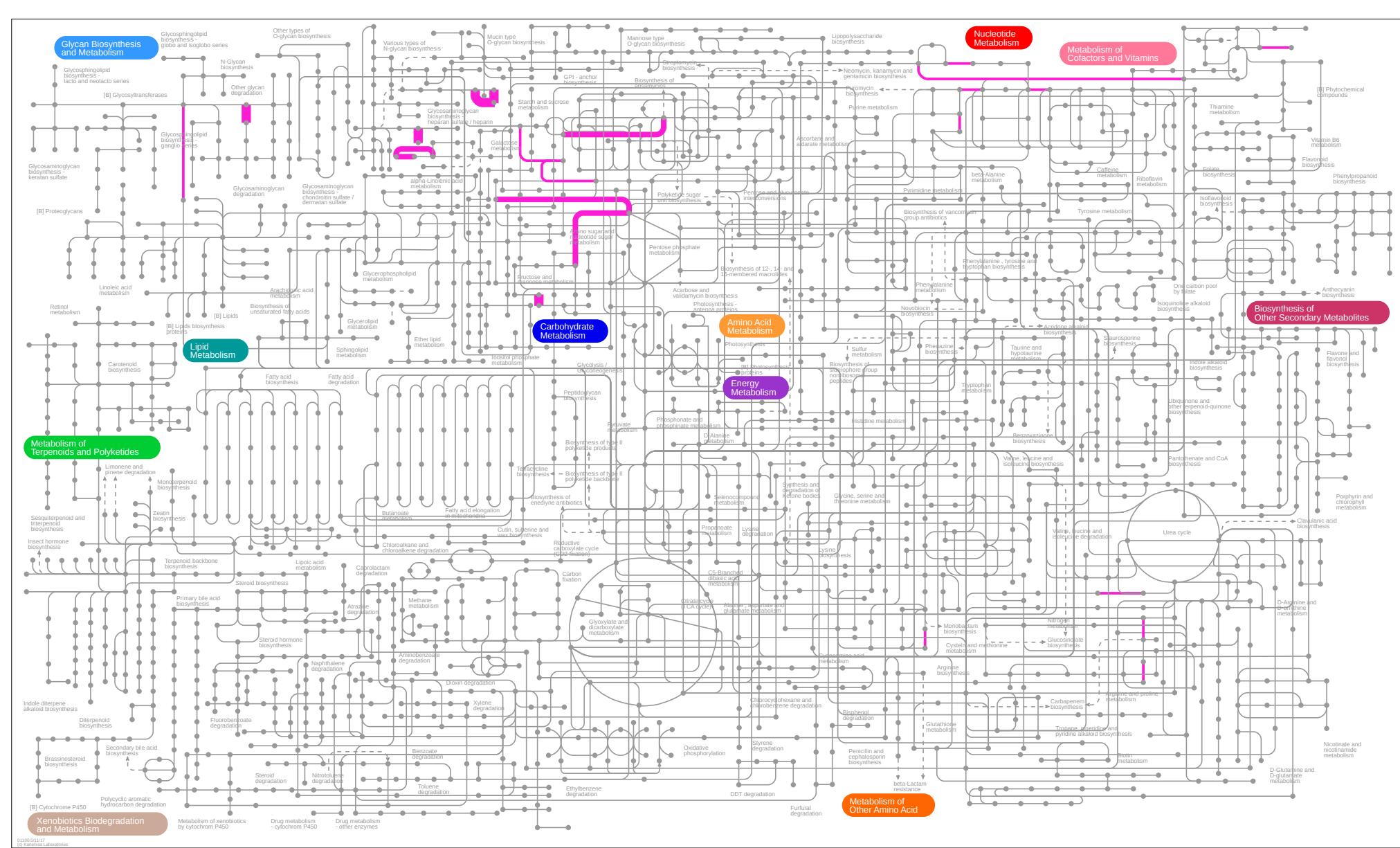


Figure S3x. Metabolic pathways overrepresented in *Actinobacteria* cell envelopes of CDC microbiota, compared to controls.

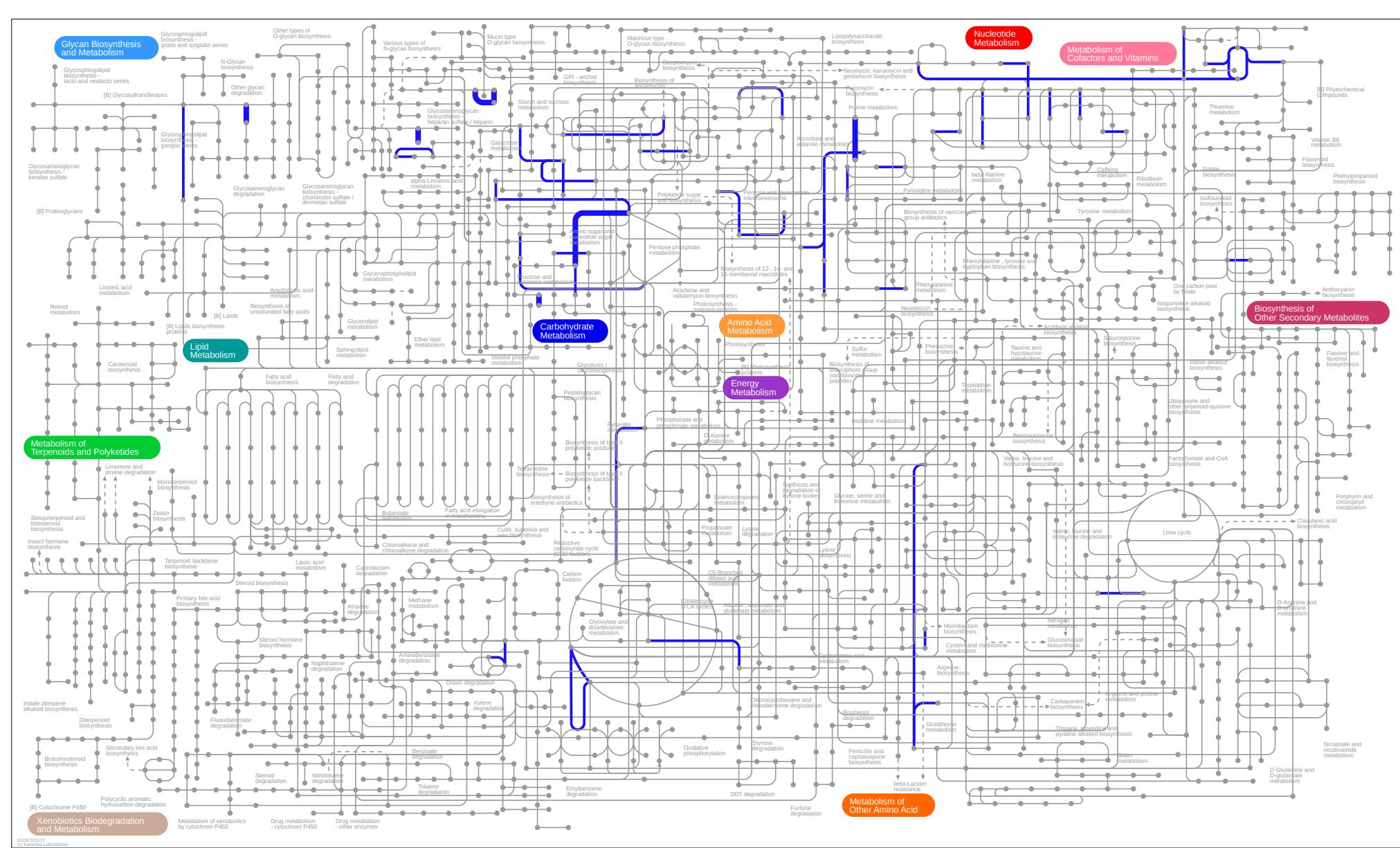


Figure S3y. Metabolic pathways overrepresented in *Actinobacteria* cell envelopes of UC microbiota, compared to controls.