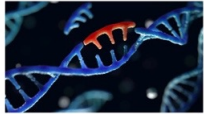
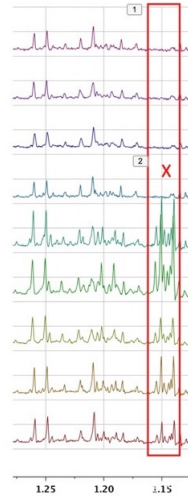


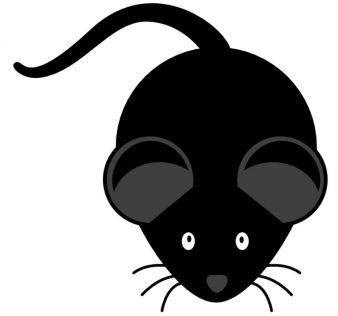
genome – microbiome – metabolome – phenotype linkage



genetic mutation



new metabolite X



new clinical phenotype

microbiome change