Changes in Hepatic Key Enzymes of Dairy Calves in Early Weaning Production Systems. 
By Haga et al., page 3156. The metabolism of nutrients in calves changes in a time-dependent manner, and depends on the developmental state of the rumen function. As the liver is a vital organ for metabolism, it is important to investigate changes in hepatic enzyme activities and mRNA expressions around the time of weaning. In the present study, we found that the activities and expressions for gluconeogenic enzymes and acetyl-CoA carboxylase tended to decrease with age in early weaning production systems.