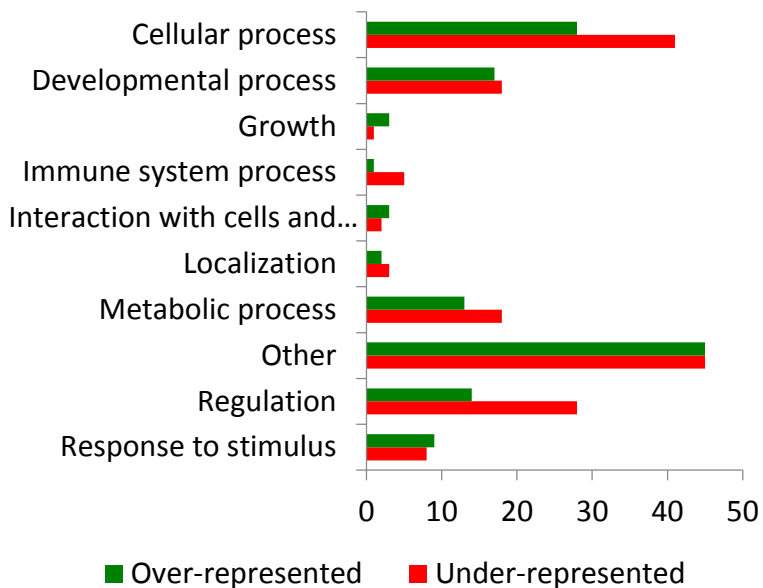
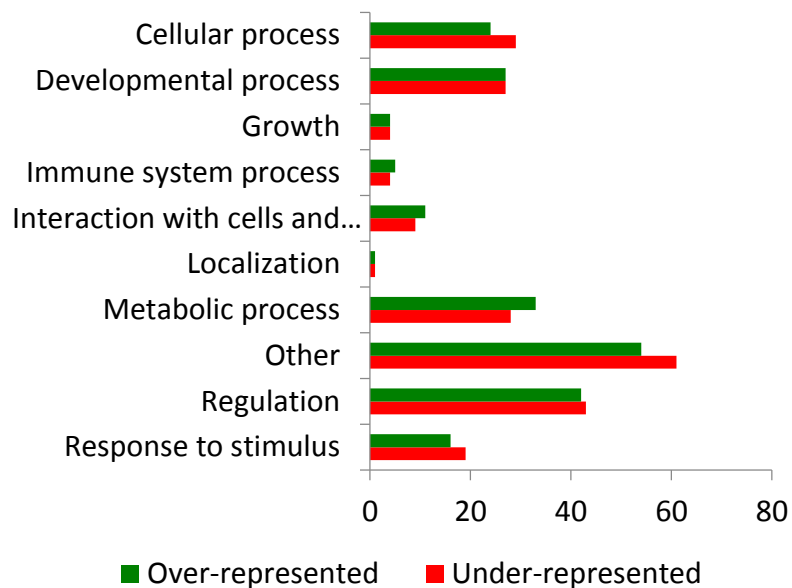
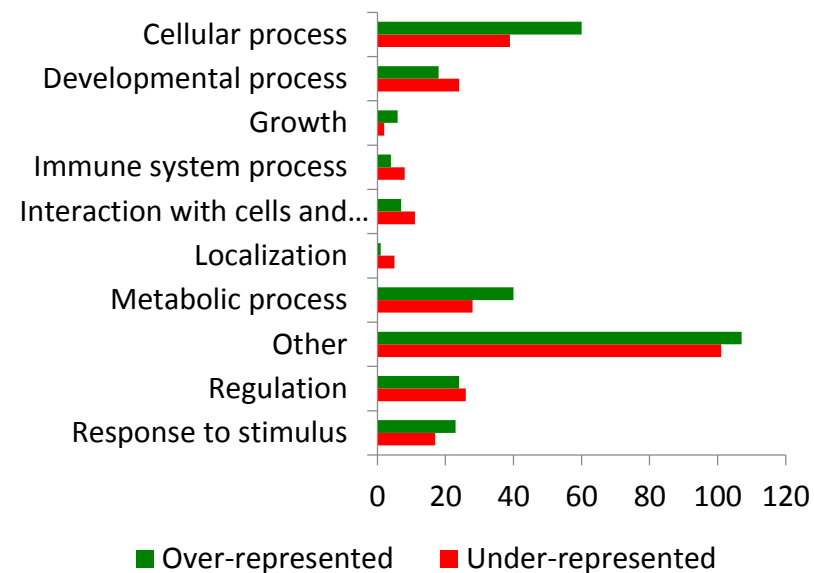
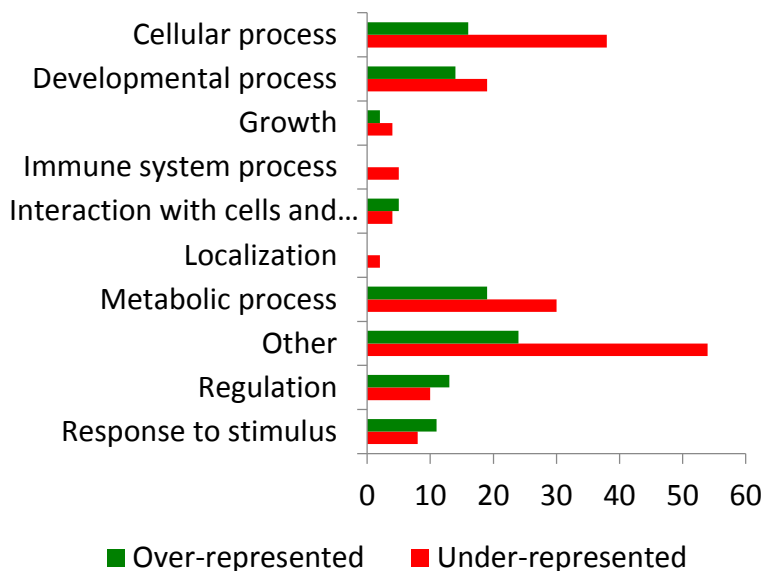
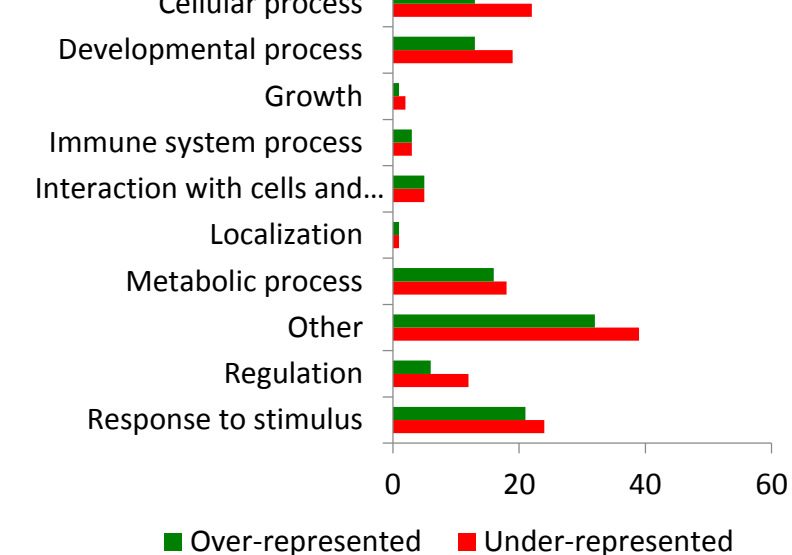
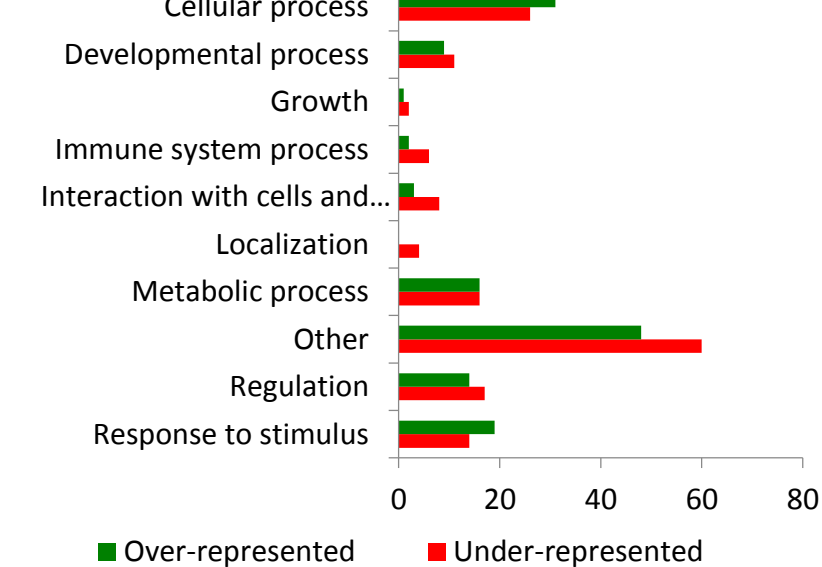
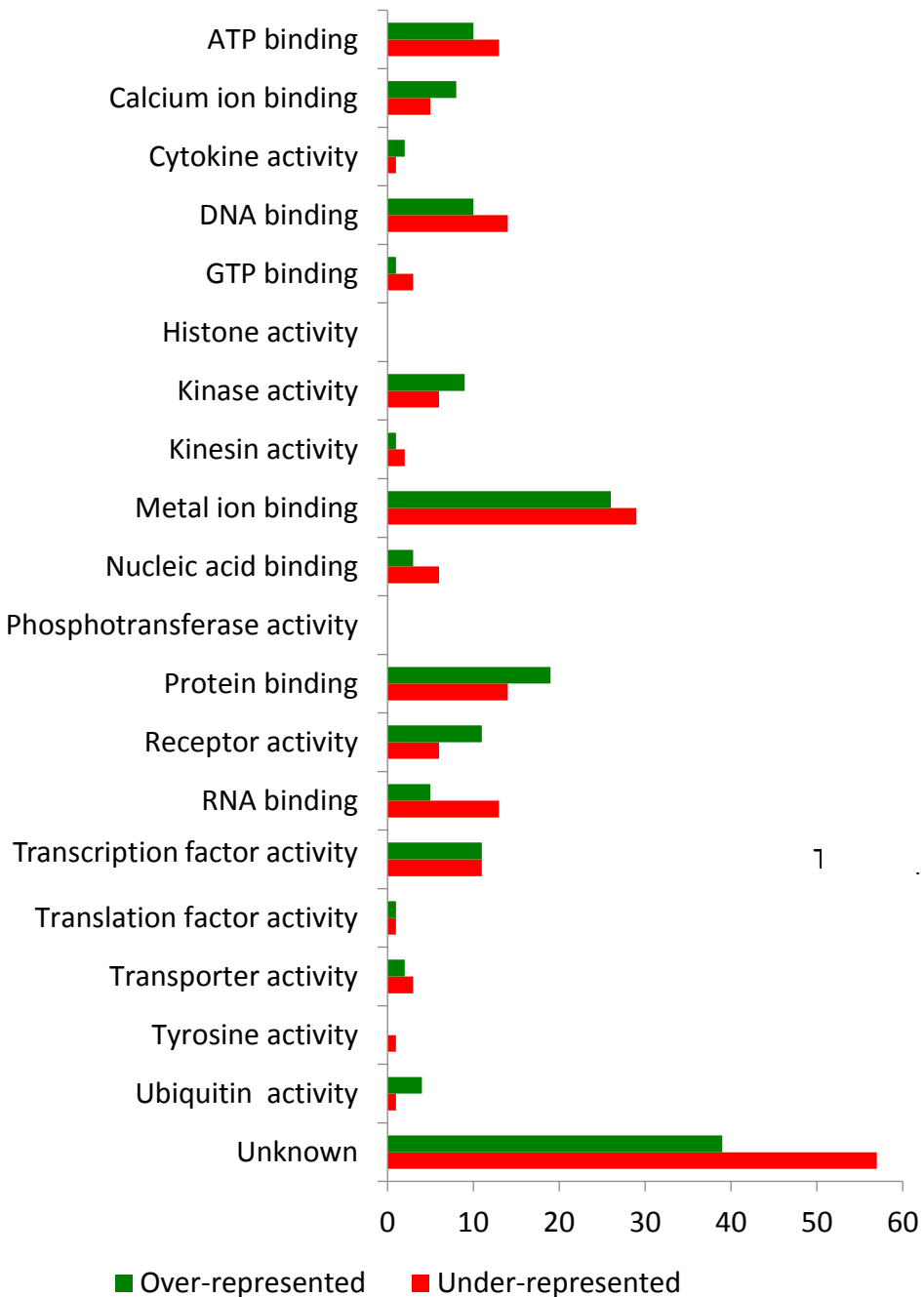
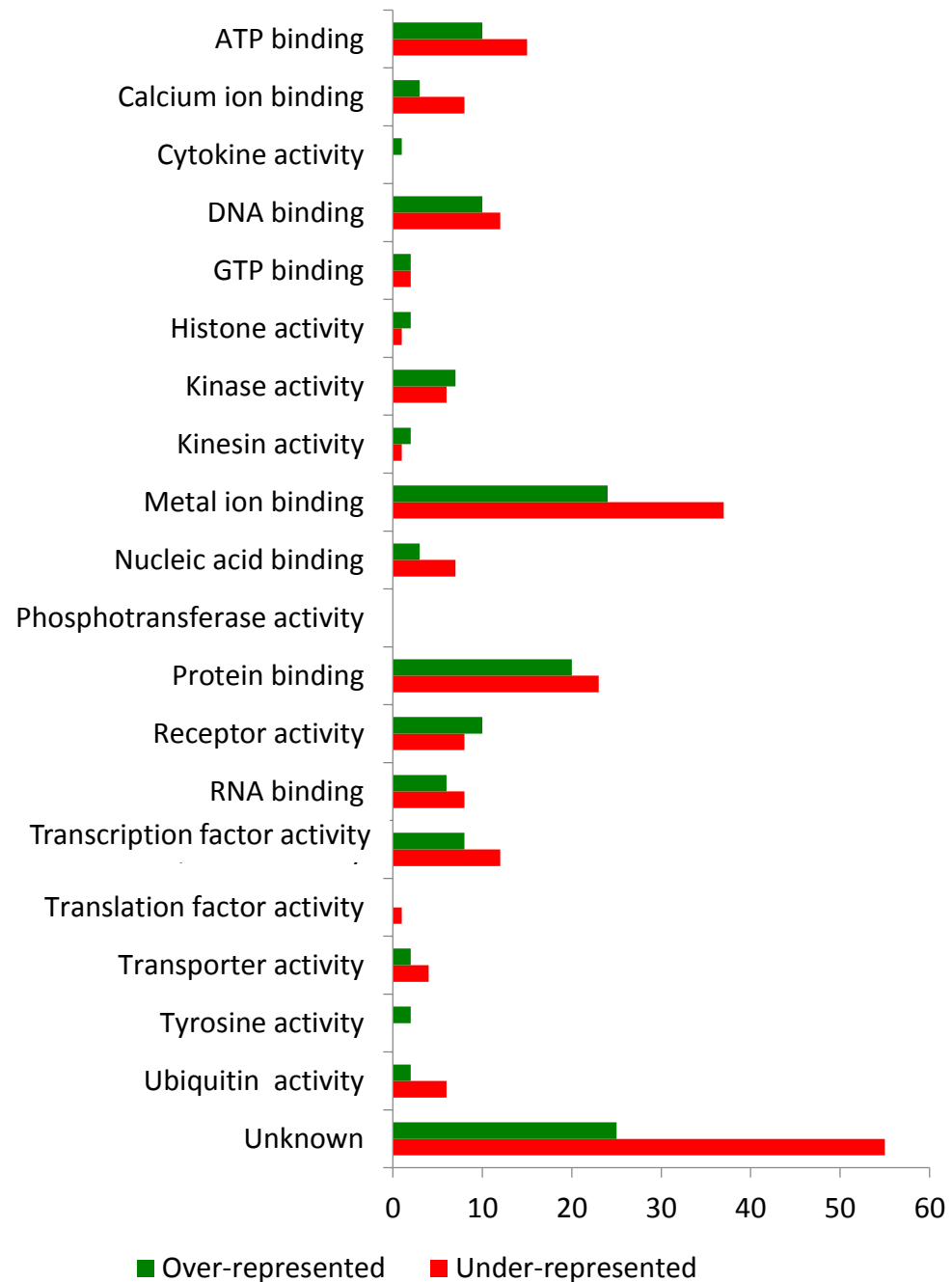


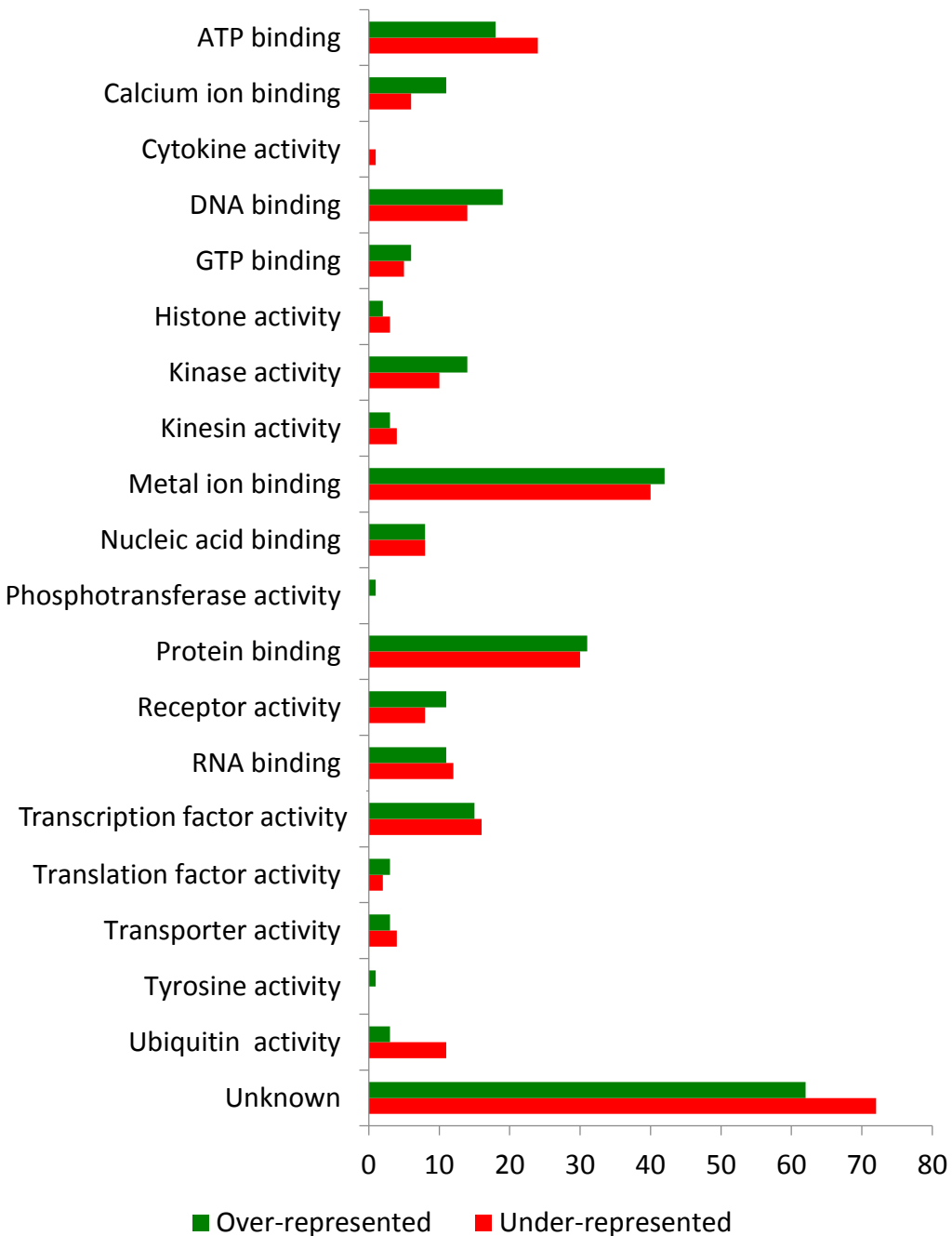
A**C9 vs. V9 (effect of vaccination)****C9 vs. C12 (effect of challenge in control cattle)****V9 vs. V12 (effect of challenge in vaccinated cattle)****V0 vs. V9 (effect of vaccination)****C0 vs. C12 (effect of challenge in control cattle)****V0 vs. V12 (Effect of vaccination and challenge)**

B**C9 vs. V9 (effect of vaccination)****V0 vs. V9 (effect of vaccination)**

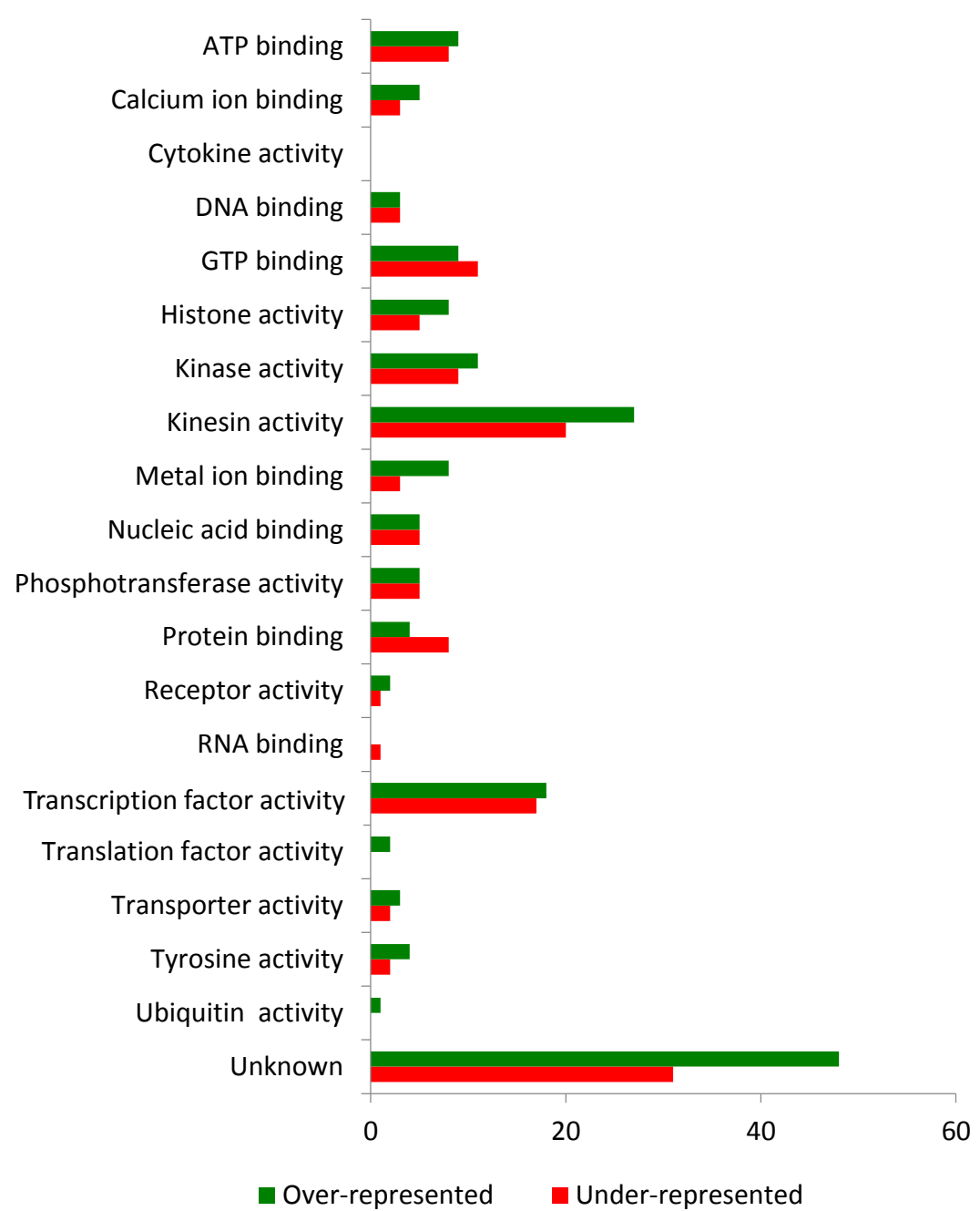
■ Over-represented ■ Under-represented

■ Over-represented ■ Under-represented

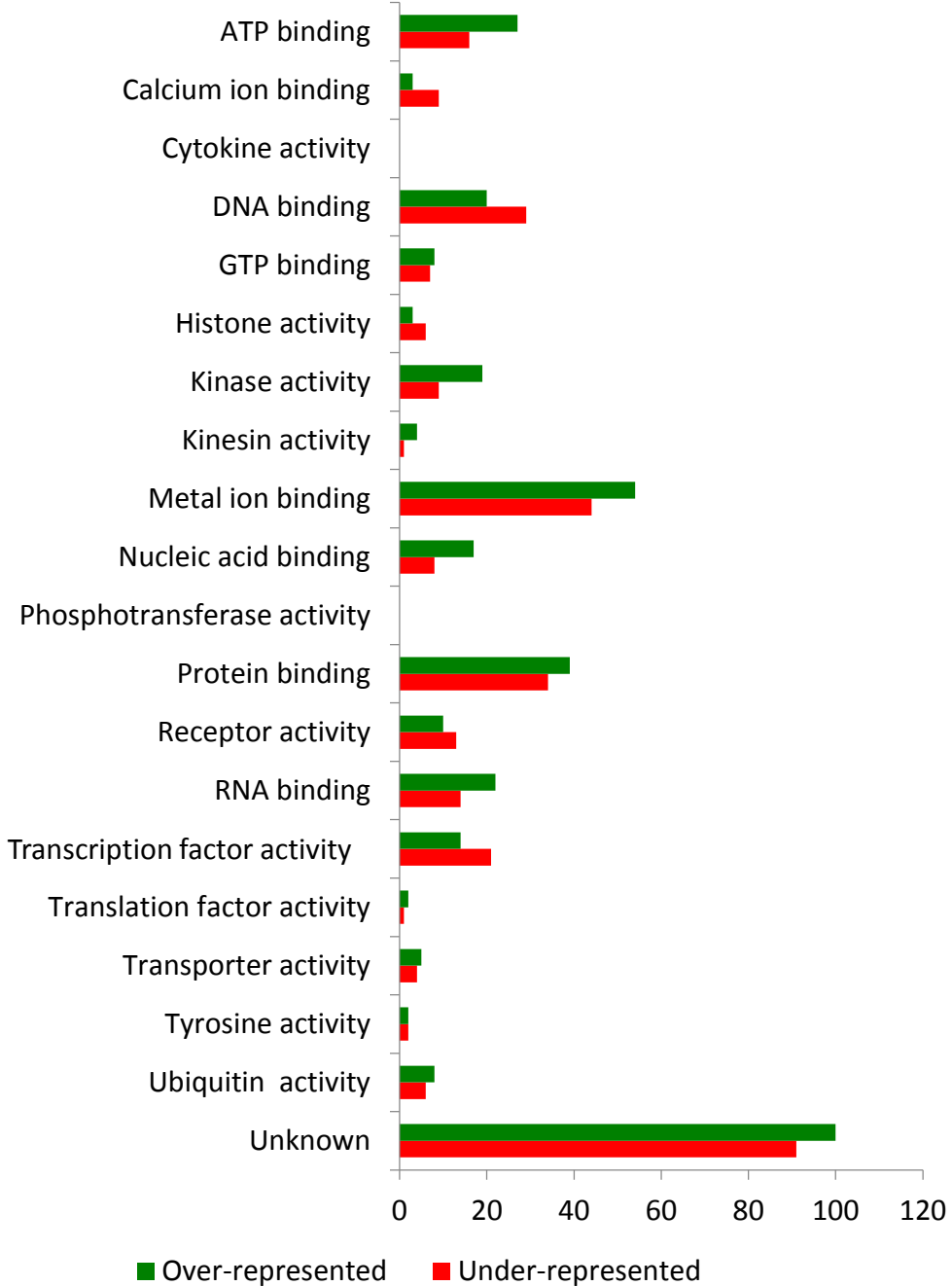
C9 vs. C12 (effect of challenge in control cattle)



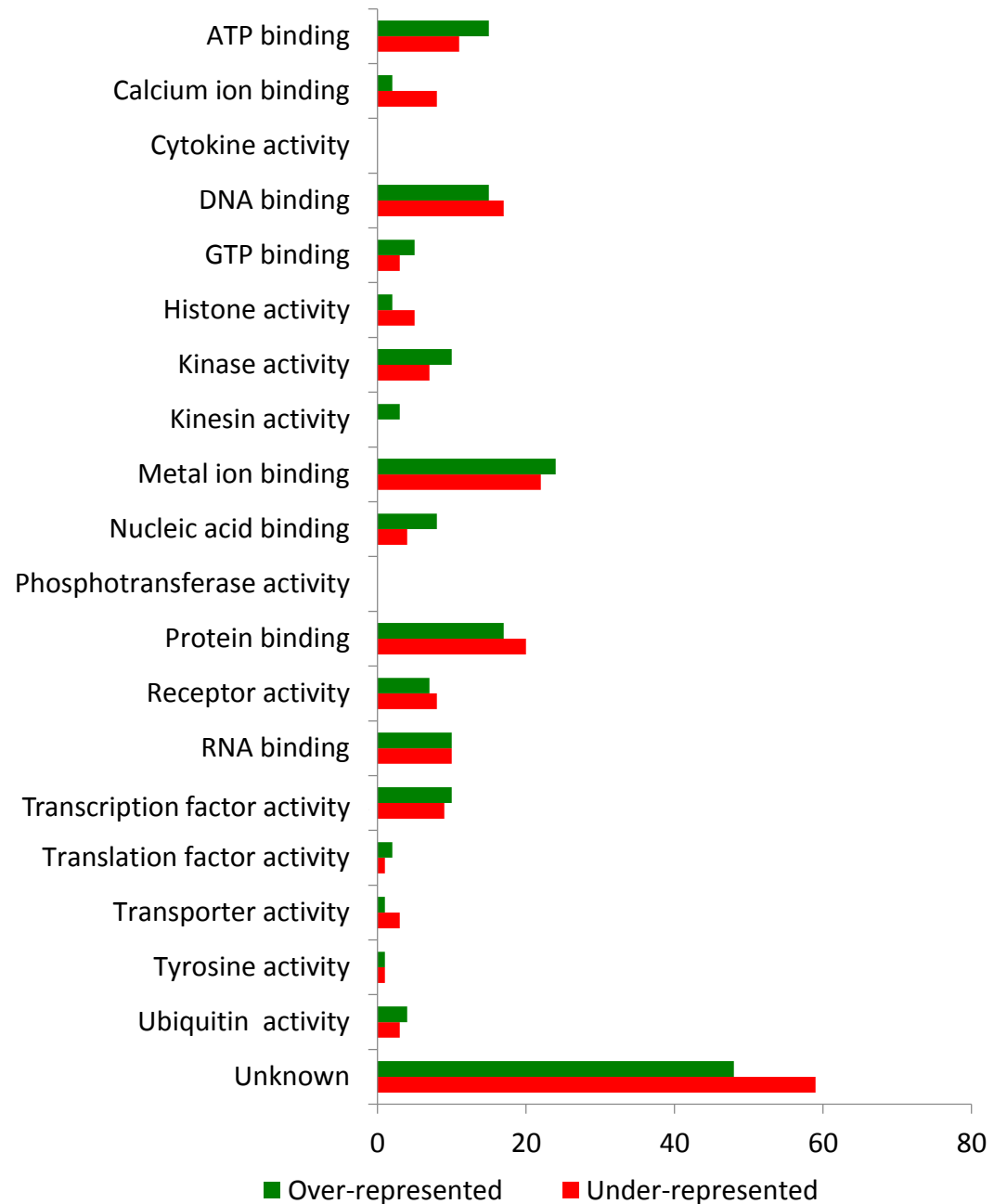
C0 vs. C12 (effect of challenge in control cattle)



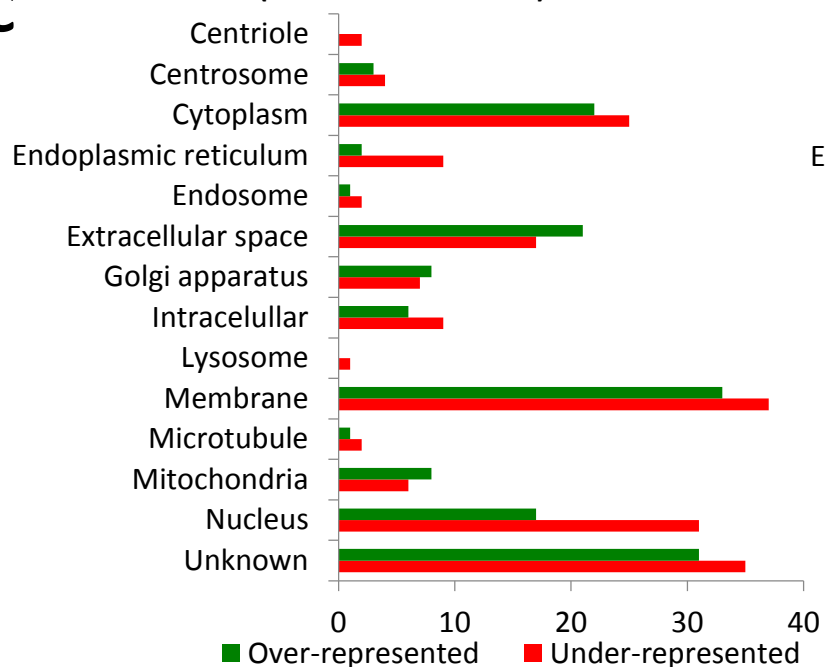
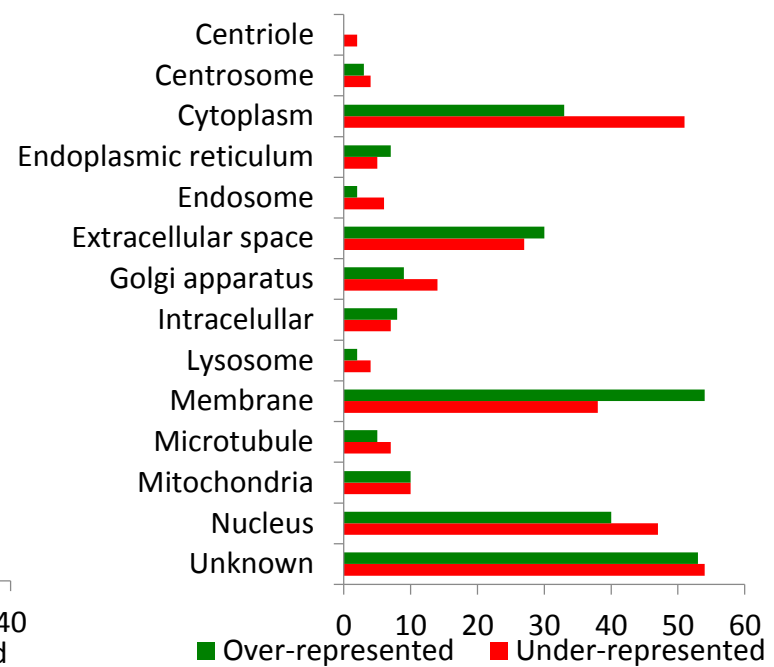
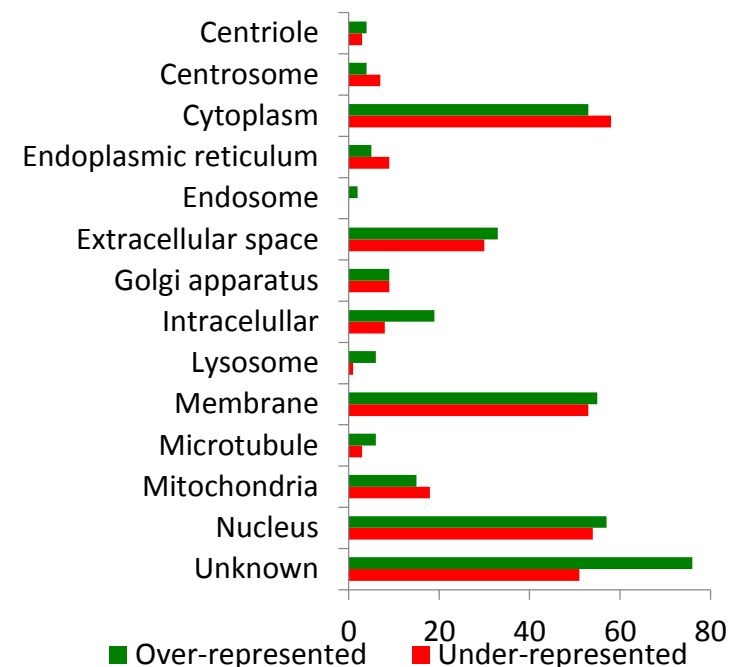
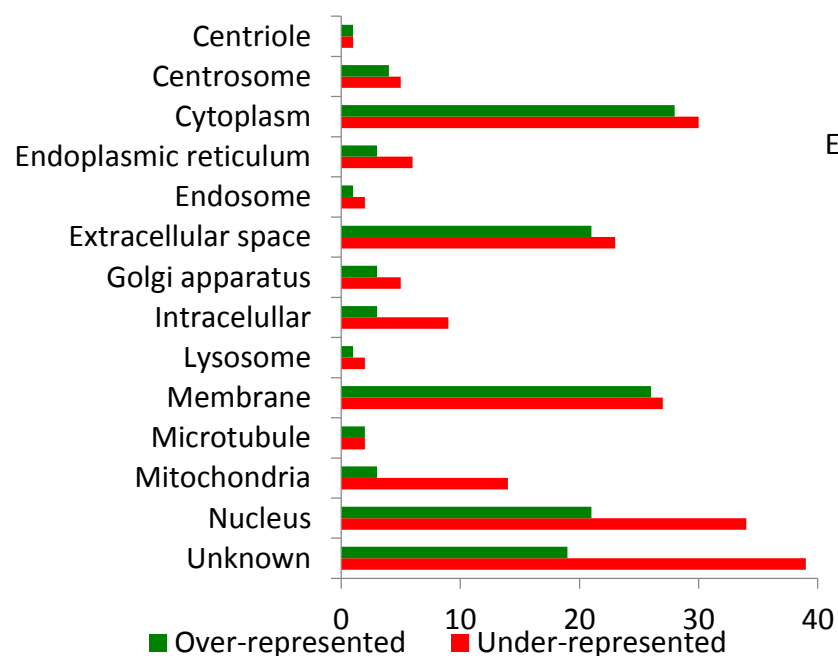
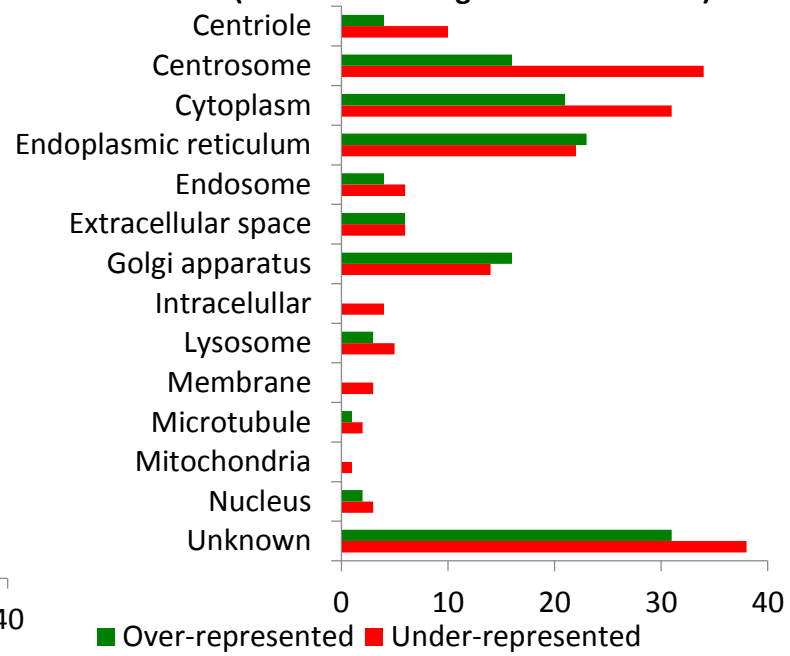
V9 vs. V12 (effect of challenge in vaccinated cattle)



V0 vs. V12 (effect of vaccination and challenge)



C

C9 vs. V9 (effect of vaccination)**C9 vs. C12 (effect of challenge in control cattle)****V9 vs. V12 (effect of challenge in vaccinated cattle)****V0 vs. V9 (effect of vaccination)****C0 vs. C12 (Effect of challenge in control cattle)****V0 vs. V12 (Effect of vaccination and challenge)**