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# The influence of selenium and selenoproteins on immune responses of poultry and pigs

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## HIGHLIGHTS

- Updated literature overview about selenium and selenoproteins on immune responses of poultry and pigs is provided
- Sources of Selenium and assessment of Se-status are described
- The role of selenium in the immunity of poultry and swine is discussed
- The importance of selenium for infectious diseases in poultry and pigs is widely discussed
- An overview of the current knowledge on the influence of selenium on immune responses in poultry and pigs and the relationship to infectious diseases is provided

## Abstract

Selenium is an essential nutrient for poultry and pigs, and is important for a number of physiological processes including regulation and function of the immune system. Through its incorporation into selenoproteins, Se is involved in the regulation of oxidative stress, redox mechanisms, and other crucial cellular processes involved in innate and adaptive immune response.

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