

## Summary

Organism is protected by many ways. Phagocytosis belongs among a nonspecific defensive function. Important part of phagocytosis is called chemotaxis. It is influenced by chemokines. We know 52 different chemokines and 20 their receptors. Chemokines are divided into four groups. They differ structurally and functionally. Chemokines play a role in activation of leukocytes in inflammation, in maturation of cells and homeostasis. Chemokines are found in various diseases.