

Title of the subject	: Nutritional immunology
Subject leader	: Prof. Dr. Melinda Kovács
Prerequisite	: none
Credit	: 2
Short description of the subject	: Nutritional Immunology is the new science that studies the relationship between nutrition and the functioning of the immune system. Human epidemiological studies and animal feeding trials have uncovered a role for nutrients and nutraceuticals. The subject characterizes effects of the diet on the immune system, aims to identify components with positive effects, and explore their mechanisms of action. Function of the general and local (gut associated) immune system, the impact of different macro- and micro-nutrients on the immunity in livestock, immunomodulation (suppression and stimulation), and methodological aspects are discussed.
Compulsory reading	: Adams, C..A. 2003 Nutricines. Food Components in Health and Nutrition. Nottingham Univ. Press
Further reading	: Gerschwin, M.E., German, J.B. and Keen, C.L. (eds.) 2000 Nutrition and Immunology, Humana Press, Totowa, New Jersey Calder P.C., Field, C.J. and Gill, H.S. (eds.) 2002 Nutrition and Immune Function, CABI Publishing, New York