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Veterinarni Medicina

Qualitative and quantitative cytometric analysis of peripheral blood leukocytes in carps (*Cyprinus carpio*)

Stosik M., Deptuła W., Wiktorowicz K., Trávniček M., Baldy-Chudzik K.

Veterinarni Medicina, 46 (2001): 149-152

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The studies were performed involving qualitative and quantitative cytometric analysis of peripheral blood leukocytes in healthy carps at various stages of their ontogeny, i.e., in 3- to 29-month old carps. Three populations of leukocyte line cells were distinguished, which differed in forward scatter (FSC) and side scatter (90°, SSC) of laser light. The most abundant leukocyte pool was present in the eldest (23- to 29-month old) fish. Lower numbers of the cells were observed in the youngest (3- to 9-month old) carps while the lowest levels of the cells were detected in carps of the moderate age (11- to 21-month old). The leukocyte populations, distinguished on

grounds of FSC/SSC characteristics, were suggested to correspond to lymphocytes/thrombocytes (low FSC, low SSC), granulocytes (high FSC, high SSC) and monocytes (high FSC, low SSC).

Keywords:

carp; leukocytes; cytometry

[[fulltext](#)]

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