

MOLEKULARNA CHARAKTERYSTYKA GENÓW I BIAŁEK WIRUSA CHOROBY MAREKA

Katarzyna Król, Elżbieta Samorek-Salamonowicz, Wojciech Kozdruń

Pracownia Diagnostyki Chorób Wirusowych Drobiu, Państwowy Instytut Weterynaryjny - Państwowy Instytut
Badawczy Al. Partyzantów 57, 24-100 Puławy, e-mail: katarzyna.krol@piwet.pulawy.pl

1. Wprowadzenie. 2. Charakterystyka wirusa choroby Mareka (MDV). 3. Choroba Mareka - drogi zakażenia, objawy kliniczne, immunoprofilaktyka. 4. Budowa molekularna wirusa choroby Mareka. 5. Białka onkogenne. 6. Wirusowe glikoproteiny. 7. Podsumowanie

Molecular characteristic of Marek's disease virus genes and peptides

Abstract: Marek's disease virus (MDV) causes a common lymphomatous and neuropathic disease in domestic chickens and less commonly in turkeys and quails. It is a member of the alphaherpesviruses and is considered to be strongly celi associated. All MDV strains are divided into three serotypes; serotype 1 strains are divided into four pathotypes. Genetic material of MDV is a linear, double stranded DNA molecule that has a bouoyant density of 1,706 g/ml and molecular weight of 166-184 kbp. The genome structures consist of a long, unique region (UL) and short unique region (US), each bounded by a terminal repeat sequence (TRL and TRS) and an internal repeate sequence (IRL and IRS). About 80 specific genes of MDV are identified. Most of them code for polypeptides that have a crucial meaning for oncogenicity and pathogenicity. Three different groups of genes were determined on the basis of the character of their products. The first one includes genes associated with oncogenicity. The second one genes encoding glycoproteins and the third one connected with all other genes. Main oncogenes are products of: genes *meq*, *pp38* and *132 bp* sequence. Another important group of genes are those encoding glycoproteins like: Ig C, B, D, H, L, I and K that are basic inductors of cellular and humoral immunity and mediate in penetration, fusion and spreading of the virus.

1. Introduction. 2. Characterization of Marek's disease virus (MDV). 3. Marek's disease: transmission, clinical signs, immunoprofilactic. 4. Molecular structure of Marek's disease virus. 5. Oncogenic proteins. 6. Viral glycoproteins. 7. Summary

Słowa kluczowe: wirus cytomegalii, diagnostyka, leki przeciwwirusowe

Keywotds: cytomegalovirus, diagnostics, antiviral drug

Polskie Towarzystwo Mikrobiologów

PL ISSN 0079-4552

Tom 44 Zeszyt 4 2005 CODEN: PMKMAV 44 (4) 2005

<http://www.pm.microbiology.pl>