

General and Veterinary Genetics

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| Short description of subject | <p>General and Veterinary Genetics course covers 1 semester and 30 didactic hours.</p> <p>Frontal lectures (15 h) are in every two weeks intervals during whole semester 2 h each and cover the way of transmitting genetic information, its expression and the influence of abnormalities in the structure of genetic material on the functioning of the organism, including genetic diseases.</p> <p>Practical classes (15 h) are obligatory and are in every two weeks intervals during whole semester 2 h each. Classes consist in solving examples related to the inheritance of various characteristics.</p> <p>Detailed description of topics is available in Syllabuses.</p> |
| Necessary requirements for practicals | Students should be prepared for coming class |
| Location | <p>Lectures are in Lecture hall B – Collegium Veterinarium</p> <p>Practicals are in room no 106 – Collegium Agronomicum II</p> |
| Person responsible and Dept | <p>Beata Horecka – Collegium Zootechnicum, room no 208 beata.horecka@up.lublin.pl</p> <p>Department of Biological Basis of Animal Production</p> |
| Schedule | <p>Date: 1- Mendelian laws, phenotype and genotype cleavage ratio.</p> <p>Date: 2 – Complete and incomplete gene linkage. Linkage power calculation. Gene mapping by the three points test.</p> <p>Date: 3 – Back and test crossing. Intergenic relations (epistasis, pleiotrophy, complementary interaction).</p> <p>Date: 4 - colloquium</p> <p>Date: 5 – Sex linked, sex limited and sex influenced inheritance. Transmission of selected traits (diseases).</p> <p>Date: 6 – Multiple alleles. Blood groups inheritance.</p> <p>Date: 7– Genetics of quantitative traits.</p> <p>Date: 8 – colloquium</p> |
| Didactic materials | <p>Pdf files with lecture conspects</p> <p>Books: Nicholas, F. W.: Introduction to Veterinary Genetics. Wiley-Blackwell, 2010</p> |
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