

M uu_uu	BC1s_034
The field or fields of study	Food safety and certification
The name of education module	Molecular biology
Language of lecture	English
Type of education module (obligatory / optional)	Przedmiot fakultatywny
The level of the education module	I
Year of studies	II
Semester	4
The number of ECTS points divided into contact/noncontact	4 2.12/1.88
Title / degree, name and surname of the responsible person	Prof. Brygida Ślaska
Co-responsible persons	Dr Milena Bajda
The entity offering the subject	Department of Biological Basis of Animal Production
The aim of the module	The basic methods and technics of molecular biology area. Scientific research directions and practical implementation of the molecular biology achievements.
The content of education module - compact description of approx. 100 words	The rules for sampling and testing of biological material in accordance with molecular biology methodology. The rules in a molecular biology laboratory. Basic of the chosen methods and technics of molecular biology. Molecular markers used to different research areas. The specificity of structure and function of nuclear and mitochondrial genome. The research application of nDNA and mtDNA.
Recommended books or obligatory books	1. Charon K.M., Świtoński M. Genetyka i genomika zwierząt. Wydawnictwo Naukowe PWN. 2012. 2. Słomski R. (red). Analiza DNA – Teoria i Praktyka. Wydawnictwo U.P. Poznań, 2008. 3. Brown T.A. – Genomy. Wydawnictwo Naukowe PWN, Warszawa, 2012.
Planned forms / activities / teaching methods	Lectures, discussion, laboratory and auditorium classes, group work, - practical analysis of DNA -isolation, electrophoresis, PCR, PCR-RFLP, presentations and speeches