



INTERNATIONAL CONFERENCE

ANIMAL GENETICS and GENOMICS - OLSZTYN 2-4 July 2018

MONDAY, 2 July 2018

Conference site: University of Warmia and Mazury, Centrum Innowacji i Transferu Technologii "Stara Kotłownia", Prawocheńskiego st. 9, Olsztyn,

8.00-17.00 REGISTRATION

Attention: all oral presentations for Monday should be uploaded to conference computer between 8.00 and 8.45.

INAUGURAL SESSION

9.00-9.30 Welcome speech 1 - **Prof. Stanisław Kamiński,** Chief of Organizing and

Scientific Committee

Welcome speech 2 - Prof. Ryszard Górecki, Rector of University of Warmia and

Mazury in Olsztyn

9.30-10.00 Inaugural speech 1

Filozofia w cieniu genetyki

Philosophy in the shadow of genetics

Prof. Krzysztof Wieczorek, Institute of Philosophy, Silesian University, Poland

10.00-10.30 Inaugural speech 2

Modelling of the breadth of expression from promoter architectures identifies pro-housekeeping

transcription factors.

Dr Łukasz Huminiecki, Institute of Animal Genetics and Breeding, Polish

Academy of Sciences, Jastrzębiec, Poland

10.00-11.00 Coffee/tea break

Attention: All posters should be placed on poster stands under appropriate number before 14.00

SESSION 1 – Genetic and genomic analysis of traits

Chairman: Dr hab. Maria Siwek, University of Science and Technology, Bydgoszcz, Poland

11.00-11.30 Leading lecture

Methods for detection of single loci effects — challenges and limits

Prof. Tomasz Szwaczkowski, Life Science University, Poznań, Poland

11.30-11.50 Invited speech

Application of population genome methods for identification of genetic background of

functional and production traits.

11.50-12.10	Dr hab. Artur Gurgul, National Research Institute of Animal Production, Balice/Kraków, Poland Invited speech Genetic background of litter size variability in pigs Dr hab. Ewa Sell-Kubiak, Life Science University, Poznań, Poland
12.20-14.00	Lunch near Kortowo Lake, Restauracja Kortowska, Olsztyn, Heweliusza st. 28
SESSION 2 -	- Effects of single genes/markers on traits/Miscellaneous
	Chairman: Prof. Marek Świtoński, Life Science University, Poznań
14.00-14.30	Leading lecture Breeding activities against Johne's disease (Paratuberculosis) in dairy cattle — a promising
14.30-15.00	approach? Prof. Georg Erhardt, Justus-Liebig University, Giessen, Germany Invited speech
14.30-13.00	Molecular genetics of the QTLs in chicken and cattle Prof. Alexei Sazanov, Technical University, Genomic Laboratory, Sankt
15.00-15.20	Petersburg, Russian Federation Invited speech Major and conditate speech in solution of homes
	Major and candidate genes as genetic markers in selection of horses Dr hab. Katarzyna Ropka-Molik , National Research Institute of Animal Production, Balice, Poland
15.20-16.00	Coffee/tea break
16.00-16.20.	Invited speech Genetic background of glycolytic and energetic reactions analyzed on molecular level and the
	quality of pork Dr hab. Elżbieta Krzęcio-Nieczyporuk
16.20-16.40	University of Humanities and Life Sciences, Siedlee, Poland Invited speech Challenges in DN 4/PN 4 sequencing
	Challenges in DNA/RNA sequencing Dr hab. Tadeusz Malewski , Institute – Museum of Zoology, Polish Academy
	of Sciences, Warsaw, Poland
16.45-18.00	POSTER SESSION
18.15-21.30	WELCOME PARTY near Kortowo Lake Restauracja Kortowska, Heweliusza st. 28
21.30	Bus, boarding back to hotels

TUESDAY 03 July 2018

8:00-14:00 REGISTRATION

Attention: all oral presentations for Tuesday should be uploaded to conference computer between 8.00 and 8.45.

SESSION 3 Genetic biodiversity and phylogenetic analysis

Chairman: Prof. Bożena Szafrańska, University of Warmia and Mazury, Olsztyn

9:00-9:30	Leading lecture
	Genetics and metagenomics based conservation efforts for two flagship species: A tale of Bengal
	tiger (Panthera tigris tigris) and giant panda (Ailuropoda melanoleuca)
	Dr Sudhanshu Mishra, Wildlife Institute of India; currently at: Sichuan
	Agricultural University, China
9.30-9.50	Invited speech
	Single nucleotide polymorphism in studies of marine exploited populations: effects of size selective
	fisheries
	Prof. Roman Wenne, Institute of Oceanology, Polish Academy of Sciences,
	Sopot, Poland
9.50-10.10	Invited speech
	Bison in Europe - fall and recovery
	Dr hab. Małgorzata Tokarska, Institute of Mammal Biology, Polish Academy
	of Sciences, Bialowieża, Poland
10.10-10.20	Investigation of genetic diversity of indigenous cattle populations in Czech Republic: preliminary
	study
	Dr Jitka Kyselova, Institute of Animal Science, Prague, Czech Republic
10.20-10.30	Whether the Atlantic cod (Gadus morhua) fast adaptation to variable salinity environment and
	population structure can be determined by alternatively spliced variants?
	Dr Agnieszka Kijewska, Institute of Oceanology, Polish Academy of Sciences,
	Sopot, Poland
10.30-10.40	Are Polish Arabian horses still "pure Polish?"
	Dr hab. Iwona Głażewska, University of Gdańsk, Faculty of Biology, Poland
10:40-11.15	Coffee/Tea break
SESSION 4	4 Genetic diseases, cytogenetics and animal biotechnologies
Chairman: Pa	rof. Monika Bugno-Poniewierska, University of Agriculture, Kraków
11:15-11:45	Leading lecture
	Manipulations of genes – facto and myths
	Dr hab. Jacek Jura, National Research Institute of Animal Production,
	Balice/Kraków, Poland
11.45-12.05	Invited speech
	Fish genome manipulations: advances and applications
1005 1005	Dr hab. Konrad Ocalewicz, University of Gdańsk, Poland
12.05-12.25	Invited speech
	Biotechnology of chicken and egg
	Dr hab. Maria Siwek , University of Science and Technology, Bydgoszcz, Poland
12.25-12:45	Invited speech
	Defects of the mitochondrial genome in human and canine tumors
	Dr hab. Brygida Ślaska, Life Science University, Lublin, Poland
12.45-12.55	Fast and reliable detection of XX/XY leukocyte chimerism in freemartin pigs with the use of
	droplet Digital PCR (ddPCR) approach
	Dr hab. Izabela Szczerbal, University of Life Sciences, Poznań, Poland
12.55-13.05	Analysis of Hyaluronidase Family genes in horse genome and their association with
	osteochondrosis
	Prof. Agnieszka Korwin-Kossakowska, Institute of Genetics and Animal
	Breeding, PAS, Jastrzębiec, Poland

13.15-14.45 Lunch near Kortowo Lake, Restauracja Kortowska, Heweliusza st. 28

miniSESSION

Nauczanie genetyki zwierząt w Polsce/Education of animal genetics in Poland Chairman: Dr hab. Joanna Gruszczyńska, University of Life Sciences, Warsaw

14.45-15.15	Leading lecture Historia, ewolucja i perspektywy nauczania genetyki zwierząt w Polsce History, evolution and perspectives for education of animals genetics in Poland Prof. Józef Bieniek, University of Agriculture, Department of Animal Genetics, Kraków Prof. Stanisław Kamiński, University of Warmia and Mazury, Department of Animal Genetics, Olsztyn
15.15-15.30	Discussion
15.30 16.00-18.00 18.15	Bus boarding to EXCURSION EXCURSION "Nicolaus Copernicus in Olsztyn Castle" Bus boarding, coming back to hotels
20.15-20.30	Bus boarding, from hotels to Gala Dinner
20.45-23.00	GALA DINNER near Krzywe Lake, Restaurant of Hotel OMEGA, Olsztyn, Sielska st. 4A
23.00	Bus boarding, back to hotels

WEDNESDAY, 4 July 2018

8.30-11.15 REGISTRATION

Attention: all oral presentations for Wednesday should be uploaded to conference computer between 9.00 and 9.30

SESSION 5 Functional genomics, epigenomics and nutrigenomics

Chairman: dr hab. Izabela Szczerbal, University of Life Sciences, Poznań

9.30-10.00 Leading lecture Functional analysis of differentially expressed genes after feeding and amounts of cDDGS	pigs with different types of fat
Dr hab. Maria Oczkowicz, National Research Insti	tute of Animal
Production, Balice, Poland	
10.00-10.20 Invited speech	
Pregnancy-Associated glycoproteins family in various mammals	
Dr Grzegorz Panasiewicz, University of Warmia and	d Mazury, Olsztyn,
Poland	
10.20-10.30 Hepatic DNA methylation and expression profiles upon prena generations of rats	tal restricted diet in three
Dr Joanna Nowacka-Woszuk, University of Life Sc	iences, Poznań
10.30-10.40 Transcriptome analysis of endometrial changes in the course of e	quine endometrosis
Dr Anna Szóstek-Mioduchowska, Institute of Anin	nal Reproduction and
Food Research, PAS, Olsztyn, Poland	

FORUM - SCIENCE faced to BREEDING PRACTICE

Chairman: Prof. Agnieszka Korwin-Kossakowska, Insitute of Animal Genetics and Breeding, PAS, Jastrzębiec,

11.20-11.40	Introductory speech Genomic revolution in dairy cattle breeding – facts and promises from Polish perspective Rewolucja genomowa w hodowli bydła mlecznego – fakty i obietnice z polskiej perspektywy Prof. Stanisław Kamiński, University of Warmia and Mazury, Olsztyn	
11.40-12.10	Invited speech	
	Implementation of claw health genomic indexes in France	
	Zastosowanie indeksów genomowych dla zdrowotności racic we Francji	
	Dr Amelie Vallee, Genes Diffusion Ltd., France	
12.10-12.40	Invited speech	
	Osiągnięcia genetyki populacji i ich aplikacja do praktyki hodowlanej bydła mlecznego Achievements of population genetics and their application in practice of dairy cattle breeding	
Dr hab. Tomasz Strabel, Life Science University, Poznań,		
	Genetic Centre, Polish Federation of Dairy cattle Breeders and Milk Producers,	
	Poznań, Poland	
12.40-13.10	OPEN DISCUSSION	
13.10-13.20	Best poster/oral presentation - ZLOTY RUMAK Award (sponsored by Polish	
	Society of Genetics supported by selected Sponsors)	
	Announcement on next conference organizer (2022)	
	CLOSING THE CONFERENCE - Prof. Stanisław Kamiński	
13.30 – 15.00	Lunch near Kortowo Lake, Restauracja Kortowska, Heweliusza st. 28; Distribution of travel food packages	