Summer school on "Emerging infectious animal diseases and genomics": NVRI Puławy, 23-26 October 2017

The objective of the summer school is to address the leading topics in the framework of genome sequencing and analysis, diseases diagnosis with special focus on two the most threatening viral disease of farm animals in Poland/Europe – avian influenza and African swine fever but also of simulation models for disease spread a and contingency planning. After the course the participants will:

- have the basic knowledge about whole genome sequencing (WGS) and metagenomics (metataxonomics)
- have the knowledge about African swine fever and its diagnosis
- basis of multiplex serology
- simulate models for Food and Mouth disease spread and contingency
- simulate models of transmission and control of ASF virus spread

	23.10.2017	**24.10.2017**	**25.10.2017**	**26.10.2017**
9.00-11.00	WGS - basic lectures and the most complicated issues - **Michael Lenz Strube** (column hall)	Metagenomics (metataxonomics) - from the scratch **Michael Lenz Strube** (column hall)	1) African swine fever virus molecular diagnostic 2) Next generation sequencing of African and classical swine fever virus - **Thomas Bruun Rasmussen** (column hall)	1) Use of simulation models for disease spread in contingency planning - presentation of modeling (FMD model will be used as an example) 2) Group work on simulation modeling - **Anette Boklund** (column hall)
11.00-11.30	*Coffee break*	*Coffee break*	*Coffee break*	*Coffee break*
11.30-13.00	WGS – workshop in Omics Analysis Department – **Michael Lenz Strube** - 1st group	WGS – workshop in Omics Analysis Department – **Michael Lenz Strube** - 3rd group	Multiplex serology – **Ulla Riber** (room near laboratories)	Modes of transmission of ASF virus and quantification of the impact of each group - **Anette Boklund** (column hall)
13.00-14.00	*Dinner*	*Dinner*	*Dinner*	*Dinner*
14.00-15.30	WGS – workshop in Omics Analysis Department – **Michael Lenz Strube** - 2nd group			1) Control of ASF spread: methods and challenges 2) Presentation of the Danish ASF modeling work 3) Concluding discussion and sum up - **Anette Boklund** (column hall)

This project has received funding from the *European Union's Horizon 2020 research and innovation programme* under grant agreement No 692131.