Workshop "Immunogenetics and breeding in livestock species"
(virtual, November 8 – 9, 2022)

Tuesday, November 8, 2022, CET	Presenter	Affiliation	Title
14.00 - 14.10	Karel Novák	Institute of Animal Science, Prague	Introductory comments
14.10 - 14.50	Dr Sabine Hammer	Institute of Immunology, University of Veterinary Medicine, Vienna	The swine leukocyte antigen (SLA) complex: molecular genetics and importance in veterinary vaccine research
14.50 – 15.30	Prof Petr Hořín	Faculty of Veterinary Medicine, University of Veterinary Sciences, Brno	Genetics and comparative genomics of NK cell receptors
15.30 – 15.45	Thales Galdino Andrade	Ribeirão Preto School of Medicine, University of São Paulo	Insights on the diversity and distribution of cattle major histocompatibility complex DRB3 alleles
15.45 – 16.00	Prof Abbas Rafat	Department of Animal Science, University of Tabriz	Identification of functional candidate genes associated with mastitis and milk production traits based on transcriptome-wide association and multi-tissue colocalization approaches using the available FarmGTEx dataset
16.00 – 16.10			break
16.10 - 16.50	Prof Dirk Werling	Royal Veterinary College, London	Species and breed-specific innate pattern recognition receptors: an immunologist's plea to take genetics more into account when designing vaccines
16.50 - 17.30	Dr Terhi Iso-Touru	Natural Resources Institute - LUKE, Finland	Bovine mammary epithelial cells response to two different mastitis pathogens
17.30 - 17.45	Dr Nidhi Sukhija	ICAR-National Dairy Research Institute, Karnal, India	Genomic clues for selective sweep regions in Indian Gir and Tharparkar cattle on BTA6
17.45 - 18.00			Discussion, conclusions

Wednesday, November 9, 2021, CET	Presenter	Affiliation	Title
14.00 - 14.10	Karel Novak	Institute of Animal Science, Prague	Introductory comments
14.10 - 14.50	Prof Ottmar Distl	University of Hannover	Screening selection signatures associated with disease resistance in sheep using whole genome sequencing data
14.50 – 15.30	Dr Steven Fiddaman	Department of Biology, University of Oxford	Investigating the immunogenetics and function of Toll-like receptors in large genomic datasets
15.30 – 15.45	Prof Lior David	Department of Animal Sciences, The Hebrew University of Jerusalem	Multigenic resistance of common carp the viral CyHV-3 disease, infection and infectivity
15.45 – 16.00	Avon Augustin Nalpadan	Center for Integrated Genetics, Norwegian University of Life Sciences, Norway	Developing Cas9 expressing MDBK cell lines for GeCKO screening against bovine diseases
16.00 – 16.10			break
16.10 – 16.25	Karel Novak	IAS Prague	Effects of *TLR* diversity on reproductive traits
16.25 – 17.05	Prof Yana Safonova	Department of Computer Science, John Hopkins University, Baltimore	Variations in cattle antibody repertoires correlate with immune responses to vaccines against the bovine respiratory disease
17.05 - 17.20	Kalifa Samaké	Faculty of Natural Sciences, Charles University, Prague	Balancing selection acting on haplotypes of bovine *TLR*s
17.20 – 17.35	K.K. Kanaka	ICAR-Indian Veterinary Research Institute, Bareilly, India	Characterization of ovalbumin coding sequence revealed altered antigenic index in predicted ovalbumin protein structure in two strains of WLH chicken
17.35 - 18.00			Discussion, conclusions