8th European Veterinary Immunology Workshop

4th – 6th September | Dublin, Ireland

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Theme: Comparative Immunology, Immunogenetics and Genomics

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Canine *in vitro*-generated tumor-conditioned macrophages display an M2-skewed phenotype

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Use of flow cytometry in diagnosis of lymphoproliferative diseases in guinea pigs

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Deciphering genetic factors of survival during PRRSV outbreaks

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Utilising cross-reactive transcription factor specific antibodies to extend the phenotyping of B cells in cattle

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Simultaneous flow cytometric assay for phagocytosis, viability, and ROS production in leukocytes of rainbow trout (Oncorhynchus mykiss)

Maria Carmela Scatà, Teresina De Iorio, Francesco Grandoni, Giovanna De Matteis, Nicolò Tonachella, Arianna Martini, Fabrizio Capoccioni

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Katarina Matiaskova, Lenka Leva, Zora Smrzova, Radek Machat, Monika Vicenova, Martin Faldyna

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Rhys Bruce, Yueran Hou, Conor Quinn, Siobhán McClean

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Ian Woolsey, Anne Bakke Fylling, Vinicius da Silva Duarte, Alicja Monika Krysmann, Fiona Valerie Franklin-Alming, Davide Porcellato, Preben Boysen

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Intradermal electroporation of naked mRNA vaccine elicits an antigen-specific protective immune response in animal models

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Development of a Systems Immunology Approach to Explore Factors Influencing Vaccination Response in Belgian Blue Cattle

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Existing acute *Ascaris* infection suppresses immune response against *Salmonella* infection in an *Ascaris-Salmonella* co-infected porcine model

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The impact of infection with the tissue-invasive intestinal nematode *Ascaris suum* on hepatic antiviral immunity

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Potential immunological biomarker for detection of Mycobacterium bovis infection in water buffalo: preliminary results

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Activation profile of bovine T cells in healthy, *Mycobacterium avium subsp. paratuberculosis* naturally infected and Paratuberculosis affected cattle after Avium and Johnin PPDs stimulation

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CD20 as new marker to define porcine B-cell subsets

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PD-1 as marker for porcine follicular T-helper cells

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Vitamin D concentrations in cattle on farms with recurrent bovine tuberculosis and influence on immune gene and protein expression in response to tuberculin

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Impact of an Ascaris infection on immune effector functions in Salmonella co-infected pigs

Ankur Midha, Robert Mugo, Sebastian Rausch, Larissa Oser, Alexandra Laubschat, Philipp Höfler, Susanne Hartmann

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Porcine neutrophil effector functions are impaired by the heat labile enterotoxin LT from enterotoxigenic *E. coli*

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Mapping early innate immune responses against African swine fever virus associated to lethality or immune protection

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Immune Complex Induced Migration of Slan^{+} Non-Classical Monocytes and Its Implications in Systemic Lupus Erythematosus

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Feline intestinal explant model to study interactions of *Toxoplasma gondii* with mucosal immune responses of its definitive host

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Different Immune Control of Gram-Positive and Gram-NegativeMammary Infections in Dairy Cows.

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Monocyte numbers and their phenotype differ between lactating and dry cows

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Peripheral blood mononuclear cells co-cultured with extracellular vesicles secreted during an in vitro heat stress: Role on proliferative response

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Pathology of natural *Mycobacterium bovis* infection in alpacas

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Theme: Mucosal Immunology and Vaccination

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Equine intestinal mucosal 'kill zone': characterization of the mucosal barrier of the small and large intestines and its reflection in feces

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Evaluation of Saccharomyces cerevisiae as a platform for vaccination against mastitis

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Bronchoalveolar T helper cell analysis to characterize equine asthma endotypes

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Vaccination against paratuberculosis triggers trained immunity mechanisms that may induce protection against other pathogens

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Aspergillus fumigatus in severe equine asthma – Antigen identification and serology to elucidate etiology?

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Increased *Aspergillus fumigatus*-binding IgG1 and IgA in bronchoalveolar lavage fluid in equine asthma – Not simply allergic?

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Allergen specific immunotherapy for equine insect bite hypersensitivity, a pilot study

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A new Montanide™ adjuvanted autogenous vaccine against bovine papillomatosis

Giulio Severi, Silvia Cardaioli, Massimo Bugatti, Martina Pellegrini, Claudia Colabella, Giulia Vita, Chiara Ovidi, Antonella Di Paolo, Antonio De Giuseppe, Monica Cagiola

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Neonatal piglets can develop a protective immune response after vaccination with a *Streptococcus suis* bacterin but not with subunit-adjuvanted vaccines

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Equine sarcoidosis: a new vaccine for a novel vaccination approach - preliminary data

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Evaluation of MONTANIDE™ GR01, a new adjuvant for feed-based vaccines, on the immune response and protective efficacy against streptococcosis in Nile tilapia (Oreochromis niloticus)

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Potential of IgG from spray dried porcine plasma (SDPP) to bind pathogens associated with canine enteropathies

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Protective effect against bovine neosporosis conferred by mucosal and subcutaneous immunisation with TLR agonists-adjuvanted *Neospora caninum* membrane antigens

L Pires[1,2], E Pérez-Antón[3], C Mendonça[2,4], M Duarte-Araújo[2,5], J Pimenta[6,7], JP Barbas[6,7], A Sequeira[6], O Moreira[6], C Cardoso[1,2], M Castro[1], P Almeida[1,2], M Fragata-Miranda[1], L Teixeira[1,2], A Rocha[2,4], M Vilanova[1,2], A Correia[1,2]

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Multi-antigenic vaccine strategies against *Rhipicephalus microplus* ticks

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Porcine bronchoalveolar lavage contains a unique distribution of immune cell phenotypes

Selma Schmidt, Basudev Paudyal, Sonia Villanueva-Hernández, Elma Tchilian, Wilhelm Gerner

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The combined effect of genetics, gut microbiota, and environment on immunity in laying hens

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Immunization of neonate piglets

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Immunomodulatory effects of a probiotic alone and upon vaccination against *Mycobacterium avium* subps. *paratuberculosis*

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Yeast-based delivery for oral immunisation against *Eimeria tenella* in broiler chickens

José Jaramillo-Ortiz, Francesca Soutter, Dirk Werling, Damer Blake

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The Contribution of Chicken Dendritic Cells to Vaccine-Mediated Immunity Against Infectious Bronchitis Virus

Samantha Sives, Emma Armstrong, Dominika Borowska, Kris Hogan, Kate Sutton

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A Comprehensive Pipeline to Rationalize T-cell Antigen Identification for Vaccine Development Against Complex Pathogens.

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Exploring Students' Perception of Vaccination in the Post-COVID Era

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