

AIRG 2010 MEETING

Scientific program

Session 1- Innate immunity

October 8, Friday – 8:30 - 10:00

Chairs: Jansen, Ch. –Parmentier, H.

- 8: 30 O-39: Enhanced NK-cell function after infection with avian influenza virus: studies in a natural host**
Christine Jansen, Peter van de Haar, Daphne van Haarlem, Willem van Eden, Thomas Göbel, Lonneke Vervelde
- 9:00 O-82: Across-line SNP association study for (innate) immune traits in laying hens**
Jan van der Poel, Filippo Biscarini, Johan van Arendonk, Henk Parmentier, Annemieke Jungerius, Henk Bovenhuis
- 9:15 O-66: Innate immune responses to infection with H5N1 highly pathogenic avian influenza virus in different duck species**
Mary Pantin-Jackwood, Caran Cagle, Jamie Wasilenko
- 9:30 O-67: Post translational polymorphism of Natural Antibodies: rapid protection to infection?**
Henk Parmentier, M.G.B. Nieuwland, T. Bergstra, A. Lammers
- 9:45 O-13: Resistance of B2 lines to avian coronavirus compared with B19 lines correlates with monocyte function**
Ellen Collisson, Ghida R. Banat, Lisa Griggs, Maisie Dawes, Suzana Tkalcic, Miguel Saggese, Worthie Briles, H.L. Shivaprasad, Mark W. Jackwood, Yvonne Drelchsler

Session 2- APC, B cells

October 8, Friday – 10:30 - 12:15

Chairs: Göbel, Th. – Heller, D.

- 10:30 O-29: The chicken Ig-like receptor family: complexity, structure and function**
Thomas Göbel
- 11:00 O-34: Identification of regulators in early chicken B cell development by combined differential transcriptome and proteome analysis of the Bursa of Fabricius**
Sonja Haertle, Julia Korte, Stefan Schmieder, Georg J. Arnold, Bernd Kaspers
- 11:15 O-35: Characterization of the germinal centre reaction in chicken**
Susanne Hainke, Bernd Kaspers, Sonja Haertle
- 11:30 O-33: Effects of CD40L on chicken B-cell development and differentiation**
Sonja Haertle, John Young, Bernd Kaspers, Magdalena Schumacher, Katharina Schenk-Weibhauser, John Young, Bernd Kaspers
- 11:45 O-90: Further characterisation of chicken bone marrow-derived dendritic cells**
Zhiguang Wu, Lisa Rothwell, Colin Butter, Pete Kaiser
- 12:00 O-19: Intratracheally administered antigens are taken up by chicken respiratory tract phagocytes that acquire a mature DC-like phenotype**
Eveline De Geus, J.M. Rebel, L. Vervelde

Session 3- Interferons and receptors

October 9, Saturday – 8:30 - 10:00

Chairs: Dalgaard, T. – Kaiser, P.

- 8:30 O-54: Chicken interferons**
John W. Lowenthal, Adam Karpala, Kate Goossens, Audrey Baule, Kristie Jenkins, Mary Broadway, Andrew Bean
- 9:00 O-22: Characterization of novel type I chicken interferons**
Ibrahim Eldaghayes, Jean-Remy Sadeyen, Lisa Rothwell, Zhiguang Wu, Zhengxing Lian, Changlin Chen, Peter Russell, Pete Kaiser
- 9:15 O-31: The chicken IFN-lambda receptor complex**
Kate Goossens, Alister C. Ward, Andrew G. D. Bean
- 9:30 O-78: Lack of antiviral activity of IFN and the IFN effector protein Mx during HPAIV infection in the chicken**
Benjamin Schusser, Carsten Krohmann, Nicola Penski, Thomas Vahlenkamp, Peter Staeheli, Bernd Kaspers, Sonja Haertle
- 9:45 O-56: The antiviral role of chicken type I interferons (INF) against in vitro fowlpox virus (FPV) infection**
Heba Mahgoub, Mark Fife, Colin Butter, Mick Bailey, Pete Kaiser

Session 4- Influenza virus and cytokine

October 9, Saturday – 10:30 - 12:00

Chairs: Lowenthal, J. – Vervelde, K.

- 10:30 O-64: IFN- γ does not appear to contribute to the immunity conferred by DNA vaccination against avian influenza**
Dele Ogunremi, Hilary Kelly, Qigao Fu
- 10:45 O-04: Reduced levels of cytokine expression and mortality in ducks compared to chickens during H5N1 avian influenza infection**
Andrew Bean, Simon Burggraaf, Adam J. Karpala, Sue Lowther, John W. Lowenthal, John Bingham
- 11:00 O-12: Avian influenza virus hemagglutinin and nucleocapsid proteins induce chicken effector, memory and effector memory CD8+ T lymphocytes**
Ellen Collisson, Haroldo Toro, De-Chu Tang, Worthie E. Briles, Linda Yates, Renee Kopulos, Shaibala Singh
- 11:15 O-45: Intranasal application of alpha interferon reduces morbidity associated with low pathogenic avian influenza infection**
Darrell R. Kapczynski, Hai Jun Jiang
- 11:30 O-38: Enhanced activation of chicken dendritic cells upon infection with high pathogenic avian influenza virus**
Christine Jansen, Lonneke Vervelde, Sylvia Reemers, Jacob Post, Annemarie Rebel
- 11:45 O-81: Chicken dendritic cells are infected and activated by avian influenza virus**
Karen Staines, R. Ruiz-Hernandez, Colin Butter

Session 5- Influenza-vaccination

October 9, Saturday – 13:30 - 15:00

Chairs: Ogunremi, D. – Juul-Madsen, H.

- 13:30 O-63: Vaccination with a DNA construct encoding hemagglutinin gene resulted in protection against the avian influenza virus in chickens**
Dele Ogunremi, John Pasick, Yohannes Berhane, Gary Kobinger, Drew Hannaman, Alfonso Clavijo
- 13:45 O-40: CD8+ T-cell responses against avian influenza virus: the identification of influenza specific CD8+ T-cell epitopes in chickens**
Christine Jansen, Sylvia Reemers, Alice Sijts, Lonneke Vervelde
- 14:00 O-79: Development of a virosome-based vaccine against avian influenza virus**
Shayan Sharif, Amirul Mallick, Payvand Parvizi, Leah Read, Eva Nagy, Shahriar Behboudi
- 14:15 O-52: Vaccinal potency of a recombinant NDV-H5 vaccine against an Asian Highly Pathogenic clade 1 H5N1 virus in day-old-chickens with or without maternal-derived-antibodies**
Amélyne Lardinois, Mieke Steensels, Bénédicte Lambrecht, Dierk Rebeski, Thierry van den Berg
- 14:30 O-14: Evaluation of intracellular cytokine staining by flow cytometry for assessment of vaccine outcomes in chickens**
Tina S. Dalgaard, L. R. Norup, E. Watrang, H. R. Juul-Madsen
- 14:45 O-74: Differences in host response and virus replication in chickens infected with low pathogenic or high pathogenic avian influenza viruses**
Johanna Rebel, J. Post, J. B. Cornelissen, D. Burt, B. Peeters

Session 6- Host response to infections

October 9, Saturday – 15:30 - 17:00

Chairs: Shat, T. – Rautenschlein, S.

- 15:30 O-76: Humoral immune responses to Mycoplasma gallisepticum infection in house finches (Carpodacus mexicanus)**
Karel Schat, Jessica Grodio, Dana M. Hawley, Keila V. Dhondt, Erik E. Osnas
- 15:45 O-77: Salmonella has impact on spatial-temporal immunological processes during chicken jejunal development**
J.M.J. Rebel, Dirkjan Schokker, M.A. Smits
- 16:00 O-37: Salmonella enterica serovar enteridis (SE) infection in 5 commercial white egg and 3 commercial brown egg strains of laying hens: comparison of SE colonization with immune responsiveness**
Peter Holt, Lara E. Vaughn, Richard K. Gast, Kenneth E. Anderson
- 16:15 O-71: Gut-associated immunological responses after nematode infection of chickens**
Silke Rautenschlein, A. Scharz, H. Abel, M. Gaulty, G. Breves
- 16:30 O-27: Immune responses in chicks following vaccination with live infectious bronchitis vaccines**
Kannan Ganapathy, Lisa Rothwell, Pete Kaiser, Stephane Lemiere, Richard Jones
- 16:45 O-16: The biological effects of the avian macrophage migration inhibitory factor (MIF) on immune cell function**
Rami Dalloul, Sungwon Kim, Kate B. Miska, Mark C. Jenkins, Ray H. Fetterer, Chasity M. Cox, Lindsay H. Sumners

Session 7- Immunogenetics

October 10, Sunday – 8:30 - 10:00

Chairs: Magor, K. – Ragland, W.

- 8:30 O-83: Upregulation of immune genes in duck lung and intestine during high and low pathogenic avian influenza infection**
Hillary Vandervan, Robert Webster, Kathy Magor
- 8:45 O-88: B cell chemoattractants and the Marek's disease viral chemokine**
Victoria Waters, Pete Kaiser
- 9:00 O-28: A genetic and functional analysis of the chicken interleukin-1 gene family**
Mark Gibson, Pete Kaiser, Mark Fife, Steve Bird, Pat Woo
- 9:15 O-03: Association of RIG-I with innate immunity of ducks to influenza**
Megan Barber, J.R. Aldridge, R.G. Webster, Kathy Magor
- 9:30 O-55: Allelic diversity of MHC class I in wild Mallard ducks**
Kathy Magor, Shawna Jensen, Christine Mesa, Julie Parks-Dely, Deb Moon
- 9:45 O-30: From genes to markers: characterization of putative chicken NK cell markers**
Marie-Luise Neulen, Birgit C. Viertlboeck, Thomas W. Göbel

Session 8- GALT and immunomodulation

October 10, Sunday – 10:30 - 12:00

Chairs: Kaspers, B. – Erf, G.

- 10:30 O-23: Immunopathology in autoimmune vitiligo in Smyth line chickens: a central role of IL-21?**
Gisela Erf, Fengying Shi
- 10:45 O-32: Automated differential blood count in the chicken**
Bernd Kaspers, Sonja Haertle, Christian Seeliger
- 11:00 O-46: The use of high throughput sequencing for avian transcriptome analysis**
Calvin Keeler, Cynthia Boettger, Michele N. Maughan, John K. Rosenberger, Carl Schmidt
- 11:15 O-51: Sustained effects of early-life oral colistin treatment on immune reactivity to intratracheally administered LPS and HuSA in chicken**
Aart Lammers, Linda J. W. van Zutphen, Ger de Vries Reilingh, Henk K Parmentier
- 11:30 O-21: Synovial fluid of Mycoplasma synoviae infected chickens contains proinflammatory cytokines and autoantibodies**
Daliborka Dusanic, Sasa Kastelic, Dusan Bencina, Mojca Narat
- 11:45 Closing remark**