

8^e Journées de la Recherche Avicole



25 et 26 mars 2009 à Saint-Malo

Palais du Grand Large



Wednesday 25th March 2009

8:00 - Registration

8:30 - Welcoming coffee

9:00 - -- Opening speeches by Patrick Herpin - INRA and Gérard Matheron – President of CS ITAVI

9:15 – Plenary Session: Economics and Prospects

Auditorium Chateaubriand (ground floor)

Chaired by: P. Magdelaine - Itavi, J.M. Choquet - Farmer

- **Production costs of broilers in different European countries and worldwide: comparative study and outlook for the future**

P. Van Horne

- **The European poultry industry in the context of liberalization of international trade.**

Y. Tregaro and B. Vallin

- **A forecast of the French poultry industry in 2020: future prospects**

C. Jez

- **Lessons learnt from recent changes in broiler facilities and the outlook**

S. Gallot

10:30 - Coffee break and poster viewing

10:30 - Posters (1): Raw Materials/ Nutrition/ Feeding

Salle du Grand Large (level 1)

- **Efficiency of a phytase on the apparent ileal digestibility of phosphorous in layer hens**

P. Philipps, R. Aureli and F. Fru

- **Comparative study of the effect of several phytases on digestibility of minerals in broilers**

P. Philipps, F. Fru and R. Aureli

- **Effect of 25-hydroxy vitamin D3 in the feed of Muscovy ducks**

C. Hamelin, C. Boulard and M. Soto-Salanova

- **Effects of 25-hidroxicolecalciferol on the performance and meat quality of different broiler strains**

A.-M. Perez-Vendrell, M. Soto-Salanova, M. Arteaga, L. Llauro and E. Folegatti

- **Effect of buffering capacity of feed on zootechnical performances of chickens and turkeys**

J.M. Gomez and A. Corniaux

- **The variable chemical composition of European co-products derived from bio-ethanol produced from cereals**

F. Piron, D. Bruyer, A. Théwis and Y. Beckers

- **Energy value and nitrogen content of rape seed cake obtained after oil extraction; comparison of cockerels and chickens**

M. Lessire, J.M. Hallouis, A. Quinsac, C. Peyronnet and I. Bouvarel

- **Evaluation of metabolizable energy and digestibility of amino acids in a product combining wheat bran and a co-product of bio-ethanol distillation compared to wheat bran, in intact and caecectomized cockerels**

M. Varloud, C. Delporte, C. Blondet and A. Guyonvarch

- **The calorific value of high-viscosity wheat in broilers varies less when coccidiostat is added**

M. Vilariño, F. Skiba, J.-M. Gaüzere and J.-P. Metayer

- **Promatest: a good indicator of the nutritive value of grain maize in poultry**

J.-P. Metayer, A.-M. Debicki-Garnier and F. Skiba

- **Effects of partial substitution of maize by date waste on broiler performances**

S. Meradi and N. Alloui

- **Impact of using glycerine from 1 to 35 days of age on performances of Ross PM3 chickens**

C. Margetyal, C. Launay and P. Arveux

- **Production of heavy chickens: influence of nutrition on performance and fillet yields**

D. Chevalier, V. Gerfault and A.F. Garancher

- **Incorporation of guanidino acetic acid as a creatine precursor in broiler feed: Effects on zootechnical performance and carcass quality.**

G. Costrel, V. Hess, J. Ringel, A. Lemme, M. Redshaw and K. Damme

11:00 - Plenary Session: Rearing systems and their sustainability

Auditorium Chateaubriand (Ground floor)

Chaired by: I. Bouvarel - Itavi, Y. De La Fouchardière - Les Fermiers De Loué

- **Aviculture and territory: conditions for a sustainable partnership**
T. Bonaudo, J. Lossouarn and P. Magdelaine
- **Evaluation of broiler welfare in commercial rearing systems. First French results from the European project Welfare Quality®**
C. Arnould and L. Colin
- **Persistent organic pollutants in eggs: risk factors on the poultry farm**
A. Travel, J. Guinvarch, V. Allain, N. Homo, A. Thébault, P. Marchand, M. Chabault, S. Lubac, L. Marze, Y. Nys and S. Le Bouquin
- **Method to evaluate odour perception in areas surrounding poultry farms**

S. Lubac, C. Aubert, S. Lagadec and M. Rochette
- **Air quality in production facilities and respiratory health of layer-hen farmers**

S. Le Bouquin, M.T. Guillam, A. Huneau-Salaün, G. Pedrono, D. Huonnic, L. Balaine, V. Michel, J.D. Dewitte, J. Gaudon, R. Le Borgne and C. Segala

12:30 - LUNCH - Rotonde Jacques Cartier (Level 1)

13:45 - Plenary Session: Raw materials/Nutrition/Feed
Auditorium Chateaubriand (Ground floor)

Chaired by: C. Jondreville - Inra, F.R. Cuenin - Provimi France

- **Ways of improving phosphorous use in poultry**
A. Narcy, C. Jondreville, M.-P. Letourneau-Montminy, M. Magnin, Y. Nys and P. Lescoat
- **Interactions between relative intake of calcium and phosphorous and broiler growth**
M. Magnin, P. Jeanmichel, A. Mahieu and G. Mottier
- **Energy utilization by growing turkeys**

V. Rivera Torres, S. Dubois, J. Noblet et and J. Van Milgen
- **Variability of chemical composition and ileal digestibility of amino acids in European dry distilled grain soluble**
P. Cozannet, C. Gady, Y. Primot, J.-P. Metayer, M. Lessire, L. Le Tutour, P.-A. Geraert, F. Skiba and J. Noblet
- **Incorporation of whole wheat in layer-hen feed according to different method 1- under close-to-field conditions**
N. Mème, M. Umar Faruk, L. Roffidal, P. Lescoat and I. Bouvarel

- **How can the feeding behaviour of turkeys be studied during feed transition periods?**
S. Lecuelle, A.-M. Chagneau, I. Bouvarel, P. Lescoat et and C. Leterrier
- **Inter-individual variability of gut flora of broilers analysed by molecular imprint and its consequences on studying the effect of these variation factors**
S. Guardia, F. Recoquillay, H. Juin, M. Lessire, M. Leconte, P. Rideaud, C. Moreau-Vauzelle, C. Dupont, J.F. Guillot and I. Gabriel

15:45 - Workshop (1): Raw materials/ Nutrition/ Feed

Auditorium Chateaubriand (Ground floor)

Chaired by: C. Jondreville - Inra, F.R. Cuenin - Provimi France

- **Reduction of phosphorous intake in turkeys from 0 to 8 weeks of age; influence of calcium level and microbial phytases.**
M. Magnin, P. Jeanmichel, A. Mahieu and G. Mottier
- **Effect of phytate levels and two phytases (bacterial or fungal origin) on the flow of endogenous amino acids in growing chickens**
A. Cowieson, A. Péron, A.-M. Debicki-Garnier, B. Messenger, P. Selle and V. Ravindran
- **Energy value of dry distilled grain soluble in growing cockerels and chickens**
P. Cozannet, J.-P. Metayer, C. Gady, Y. Primot, M. Lessire, L. Le Tutour, P.-A. Geraert, F. Skiba and J. Noblet
- **Nutritional value of dry distilled grain soluble in cockerels and chickens and effect of incorporation level and addition of a multi-enzyme complex on growing performance in standard chickens**
J.-P. Metayer, J.-M. Gaüzere, C. Gady, F. Skiba and M. Vilarino
- **Energy value of spent maize and effect on zootechnical performance of broilers**
F. Skiba, J.-P. Metayer, H. Clave and M. Quentin
- **Influence of feed fat content on metabolic utilization of energy in growing chickens**
J. Noblet, M. Warpechowski, S. Dubois, J. Van Milgen and B. Carré
- **Slow growing chickens use feed efficiently**
A.-M. Chagneau, S. Lecuelle, P. Lescoat, M. Quentin, J.-M. Guillaumin and I. Bouvarel
- **Nutritional strategy to maximize performance and minimize mortality in Cobb 500 broilers - Effect of amino acid supplements in**

finishing period

V. Hess, G. Costrel, C. Elwert, P. Casanovas and A. Lemme

15:45 - Economics and outlook workshop

Salle Lammenais 1 (Level 2)

Chaired by: P. Magdelaine - Itavi, J.M. Choquet - Producer

- **Poultry market segmentation according to type of valorisation: present situation and outlook**
A. Taconet and P. Magdelaine
- **Raw materials and cost of poultry feed: consequences and adaptation strategies**
C. Guérini, I. Bouvarel and S. Gallot
- **AviSim: a tool to encourage discussion about feed formulation processes**
C. Gard, M. Louati, W. Skouri, I. Bouvarel, M. Lessire, J.-L. Tusek, M. Quentin, J.-L. Zwick and P. Lescoat
- **Typology of poultry farms in the French Antilles and Guyana. Characterizing production systems with a view to setting up a network of technico-economic reference farms**
L. Julien, B. Dufлот, S. Gallot, I. Traineau and F. Galan
- **The poultry industry in Brazil: comparison of two production areas**
C. Coutinho, V. Prudencio Da Silva, P. Lescoat and L. Duarte

15:45 - Rearing systems and sustainability workshop

Salle Lammenais 2 (Level 2)

Chaired by: I. Bouvarel - Itavi, Y. De La Fouchardière - Les Fermiers de Loué

- **Furnished cages: influence of group size and litter provision on layer hen feed consumption, zootechnical performance and mortality**
M. Guinebretière, D. Huonnic, M. De Tréglodé, A. Huneau-Salaün and V. Michel
- **The ideal layer cage: myth or reality?**
L. Bignon, D. Guémené, M. Couty and L. Mirabito
- **Alternative litters to straw: a possible solution to welfare problems in broilers**
L. Bignon, D. Chevalier, S. Conan, E. Dezat and L. Mirabito
- **Effects of delayed increase in ambient temperature on body temperature and hyperventilation in chickens**

C. Leterrier, Y. Colina, A. Collin, D. Bastianelli, P. Constantin and V. De Basilio

- **Effect of gender and genotype on the way chickens occupy runs and their corticosterone response to stress**

E. Baeza, M. Couty, J.-P. Damange, E. Le Bihan-Duval, D. Guémené and C. Arnould

- **Simplified method for measuring greenhouse gases in poultry buildings**

P. Ponchant, M. Hassouna, C. Aubert, P. Robin, G. Amand and A. Ehlacher

- **Reorganizing nitrogen in the poultry building using a micro-organism complex for substantial reduction of ammonia loss in the building and the field and of loss through nitrate leaching in the field, obtaining a standard compost not requiring turning, for the good of the animals, the economy and the environment**

E. Allain and C. Aubert

- **Fly control in layer farms by collecting wet droppings on a belt and storing them in a shed**

G. Inizan, M. Germain and F. Mahe

17:45 – Annual General Meeting of WPSA

18:30 - Cocktail

Thursday 26th March 2009

8:30 - Plenary Session: Pathology and Prevention

Auditorium Chateaubriand (Ground floor)

Chaired by: I. Kempf - AFSSA, J. Bertin - Le Gouessant

- **Botulism – Developments in knowledge**
M. Popoff
- **Avian botulism – Field observations**
D. Balloy and C. Facon
- **Technico-economic report on a severe episode of airsacculitis fibrinosis in standard broilers involving three major pathogens: BI, SHS and ORT**
J. Marguerie, C. Bostvironnois, R. Planel, D. Balloy and C. Zadjian
- **Impact of a paromomycin supplement on antibiotic resistance of gut flora in turkeys**
I. Kempf, G. Hellard, A. Le Roux, P. Richez and N. Etteradossi
- **Study of pathogenicity in chickens of Eimeria praecox alone or associated with Eimeria acervulina**
J.-M. Reperant, M. Dardi, M. Pages, D. Duchemin and M. Thomas Henaff
- **Evidence of multiple rearranging in the weakly pathogenic French avian influenza virus H5 subtype between 2002 and 2008**
F.-X. Briand, G. Le Gall-Reculé, A. Bluteau, C. Guillou-Cloarec, K. Ogor, C. Macé, S. Ferré, A. Schmitz, P. Massin, O. Guionie, C. Allée, J. Lamandé, M. Cherbonnel and V. Jestin
- **Compatibility of a new HVT-Gumboro vaccine vector with vaccination against Newcastle disease and infectious Bronchitis at one day of age**
M.-L. Jay, S. Bizzini, M. Duboeuf, S. Goutebroze and F.-X. Le Gros

10:15 - Coffee break and poster viewing

10:15 - Posters (2) : Raw materials/Nutrition/Feeding

Grand Large (Level 1)

- **Determining protein needs of mulard ducklings in the growing phase: effect on zootechnical performance and nitrogen waste**
E. Baeza, M.-D. Bernadet, G. Guy, M. Lessire and B. Carré
- **Study of effects of feed presentation and nutritional content, and genetics on technical performance of label guinea fowl**
F. Van Der Horst and H. Clave

- **Effects of feed distribution methods and presentation on the performance of rapid-growing broilers**
A.-M. Chagneau, S. Lecuelle, P. Lescoat, J.-M. Guillaumin, M. Quentin and I. Bouvarel
- **Short term reaction of layer hens presented with a mixture of wheat and commercial feed of different particle size**
E. Dezat, M. Umar Faruk, P. Lescoat, L. Roffidal, A.-M. Chagneau and I. Bouvarel
- **Comparison of the effectiveness of three natural red pigments and canthaxanthin to colour chicken egg yolks**
M. Magnin, P. Jeanmichel, A. Mahieu and G. Mottier
- **Comparison of the effectiveness of different red pigments on the pigmentation of egg yolks**
R. Aureli, P. Philipps, F. Fru, J. Schierle and M. Gadiant
- **Effect on growth performance of using a combination of natural plant extracts in broiler feed according to stocking density**
S. Guardia, F. Recoquillay, H. Juin, M. Lessire, M. Leconte, J.F. Guillot and I. Gabriel
- **Effect on broiler growth performance of including a combination of natural plant extracts in feed according to bird density and weight at beginning of rearing**
S. Guardia, F. Recoquillay, H. Juin, M. Lessire, M. Leconte, J.F. Guillot and I. Gabriel
- **Effect of a food additive consisting of essential oils and plant extracts on broiler performance and carcass quality from 1 to 42 days of age compared to salinomycin and flavophospholipol**
L. Mazuranok, P. Maneeroj, A. Vikari and J. Khajarern
- **Probiotic activity of Lactobacillus plantarum BJ002: Study carried out on ISA 15 broilers**
T. Idoui, D. Boudjerda, E. Leghouchi and N. Karam
- **Clay: a natural ingredient in broiler diet improves performance, condition of droppings and carcass yield**
D. Ouachem, M. Soltane, T. Kalkil, Z. Soualah, F. Berghouti, F. Abdessemed, S. Mekaoussi and I. Yakhlef
- **Efficacy of a probiotic in broilers**
M. Gracia, E. Esteve-Garcia, P. Cachaldora, T. Marubashi, E. McCartney, P. Medel and A. Van Der Aa
- **Yeast wall derivative : growth factor and an alternative to antibiotics in broilers**
N. Mathlouthi, M.S. Kechiche, W. Elleuch and M. Larbier

10:15 - Product Safety and Quality Posters

Grand Large (Level 1)

- **Study of variations in pH and colour in 3 turkey strains**
H.-P. Ngo, Q.T. Le, M. Abou Ali and M. Franck
- **Impact of preservation method on meat colour and acceptability of Greater rhea (*Rhea americana*)**
R. Filgueras, P. Gatellier, L. Aubry, C. Ferreira, R.C. Zambiasi and V. Santé-Lhoutellier
- **What are the specific characteristics of G line de Touraine meat?**
P. Chartrin, K. Meteau, T. Bordeau, E. Le Bihan-Duval, M. Lessire, C. Berri, H. Juin and E. Baeza
- **Effects of diets based on evergreen-oak acorns on fatty acid content of broiler leg and breast muscle**
H. Hamou, K. Bouderoua, G. Selselet-Attou and J. Mourot
- **Characterisation of muscle response to stress induced by transport and restraint in chickens. 2 – Muscle metabolism and meat quality indicators**
X. Fernandez, C. Berri, M. Jlali, C. Molette, D. Hazard, R. El Rammouz, Z. Wadih-Moussa and H. R mignon

10:15 – Pathology and Prevention Posters

Grand Large (Level 1)

- **The bursa of Fabricius of turkeys should also be closely observed**
V. Turblin
- **Natural immunity to sub-type H5 and N1 influenza virus in wild French avifauna**
E. Niqueux, O. Guionie, A. Schmitz, J. Hars and V. Jestin
- **Studying the importance of H5N3 avian influenza virus-like particles for vaccinating ducks**
A. Prel, G. Le Gall-Recul , A.-C. Nignol, E. Niqueux, M. Amelot and V. Jestin
- **Detection of minor Salmonellae in hatcheries of the Batna region (Algeria)**
A. Ayachi, N. Alloui, A. Kassah-Laouar and O. Bennoune
- **Development of a passive immunisation strategy against Salmonella Enteritidis and Typhimurium in broilers using egg yolk antibodies**
C. Marcq, R. Chalghoumi, Y. Beckers, D. Portetelle and A. Th ewis
- **Klebsiella pneumoniae in poultry farming, frequency of isolation and antibiotic sensitivity.**

T. Gavaret and M.-A. Briffaud

- **Activity of Phenoxymethylpenicillin on avian strains of *Staphylococcus aureus* and *Enterococcus cecorum***

J.-M. Watier, J.-L. Pinsard, D. Martin, A. Restif and E. Bousquet

- **Antibacterial activity of heterophils: a shield against infection in broilers**

O. Bennoune, M. Melizi, K. Khazal, R. Bourouba and A. Ayachi

- **A healthy intestine is essential for good animal performance**

K. Schwarzer, L. Timbermont, J. Dewulf, F. Pasmans, F. Van Immerseel and R. Ducatelle

- **Impact of non-specific enteritis on the digestive tract of chickens**

S. Mallet, J. Puterflam and M. Leconte

- **The value of using higher doses of coccidiostatics to prevent coccidiosis**

D. Vancraeynest, M. De Gussem, F. Nerat, M. Marien, G. Fort and M. Naciri

- **Effects of using plant-extract complexes in growing chickens vaccinated against coccidiosis and inoculated with a coccidian challenge at 14 days of age**

M. Forat, F. Clement and F. Recoquillay

- **Resistance to coccidiostatics: Impact of anticoccidial vaccination on the return of coccidia sensitivity to coccidiostatics**

F. Clusel

- **Research on *Histomonas meleagridis* in turkey farms using PCR: follow-up of 10 batches suffering from enterohepatitis histomoniasis, study of carrier prevalence of *Histomonas meleagridis* on 150 farms and monitoring a farm with recurring histomoniasis**

R. Souillard, P.Y. Moalic, N. Eterradosi, G. Le Pottier, J.-M. Reperant, L. Balaine and V. Michel

- **Value of adding a nutritional solution to drinking water to combat the negative effects of heat stress**

A. Mathiaud, A. Missohou, N. Brevault and E. Mansuy

11:00 – Plenary Session: Product Safety and Quality

Auditorium Chateaubriand (Ground floor)

Chaired by: Y. Nys - Inra, C. Roux - Gastronomes

- **Factors affecting the suitability of poultry meat for processing**

V. Gigaud, E. Le Bihan-Duval and C. Berri

- **Volatile biotracers specific to *Géline de Touraine* chickens**

J. Ratel, M. Peyron, E. Baeza and E. Engel

- **Identification of genes involved in variations in poultry meat quality: Study of muscular transcriptome in chickens**

V. Sibut, C. Hennequet-Antier, E. Le Bihan-Duval, M. Duclos and C. Berri

- **Avian beta-defensin 11 (AvBD 11), a new natural antimicrobial peptide in the egg: Identification, purification and characterisation**

V. Hervé-Grépinet, S. Réhault-Godbert, V. Labas, T. Magallon, M. Bourin, C. Derache, A.-C. Lalmanach, J. Gautron and Y. Nys

- **Decontamination of shell eggs using a pulsed light procedure**

M. Busnel, G. Gatt, C. Levy, M. Chemaly and M.-A. Valette

12:30 - Lunch - Rotonde Jacques Cartier (Level 1)

14:00 – Raw materials/Nutrition/ Feeding Workshop (2)

Auditorium Chateaubriand (Ground floor)

Chaired by: C. Jondreville - Inra, F.R. Cuenin - Provimi France

- **Influence on broiler growth performance, body composition and thyroid weight of method of obtaining rape-seed oil cake: cold or hot pressing or solvent extraction**

M. Lessire, J.M. Hallouis, A. Quinsac, C. Peyronnet and I. Bouvarel

- **Incorporating whole wheat in layer-hen diet using different methods 2 –non-restrictive conditions**

M. Umar Faruk, N. Mème, L. Roffidal, I. Bouvarel and P. Lescoat

- **Utilization of new raw materials in sequential feeding**

I. Bouvarel, A.-M. Chagneau, P. Lescoat, M. Lessire, M. Vilarino, K. Crépon, G. Etave, C. Margetyal and H. Juin

- **Visual characterisation of poultry feeds**

R. Hachemi, N. Loménié, P. Lescoat, I. Bouvarel and N. Vincent

- **Effects of fructo-oligosaccharides and whole wheat on intestinal mucosal structure and mucus production in chickens**

S. Mallet, A. Travel, J. Williams, M. Leconte, M. Candidat et C. Chevais

- **Comparison of the effect of two essential-oil preparations on in vitro growth of bacteria and broiler performance**

N. Mathlouthi, T. Bouzaïenne, I. Oueslati, F. Recoquillay, M. Hamdi and R. Bergaoui

- **Comparison of stability of 10 tagete extracts and 7 paprika extracts, sources of natural yellow and red pigments for poultry**

M. Magnin, P. Jeanmichel, A. Mahieu and G. Mottier

14:00 - Genetics, Selection and Reproduction Workshop

Lammenais 3 (Level 2)

Chaired by: M. Douaire - Inra, B. Pelé - Hendrix Genetics

- **Complementary observations of the expression of brooding behaviour and length of incubation in the turkey (*Meleagris gallopavo*)**
S. Brière, P. Etourneau, D. Guémené, G. Lévêque and J.-P. Brillard
- **Impact on fear response of a divergent selection of Pekin ducks (*Anas platyrhynchos*) selected for their corticosterone level after physical stress**
I. Arnaud, B. Basso, M.-D. Bernadet, M. Couty, F. Dubos, G. Guy, J.-M. Brun and D. Guémené
- **Effect of significantly diluting diet on growth and digestive parameters of divergent D+ and D- chicken lines selected for digestibility**
N. Rougière, S. Mignon-Grasteau, N. Sellier and B. Carré
- **Poultry information system**
M.-C. Batut, T. Heirman, M.-D. Bernadet, J. Besnard, M. Chabault, F. Dubos, R. Duzert, D. Gourichon, C. Marie-Etancelin, N. Millet, M.-M. Richard, M. Ruinaut, N. Sellier, A. Vieaud and B. Basso
- **Pyro-sequencing for developing avian EST and SNP**
F. Pitel, A. Vignal, S. Leroux, K. Feve, F. Vignoles, A. Tircazes, M. Morisson, A. Marty, C. Donnadiou, D. Gourichon, F. Minvielle, C. Leterrier, C. Arnould, M.-D. Bernadet, C. Marie-Etancelin, B. Basso, F. Hérault, C. Beaumont, C. Klopp and C. Diot
- **Drawing up the genetic map of the common duck**
K. Feve, M. Bounet, F. Vignoles, S. Leroux, S. Bardes, A. Vignal and C. Marie-Etancelin
- **Integrated genetic mapping of microchromosome 16, carrier of a major histocompatibility complex in the hen.**
S. Leroux, R. Solinhac, S. Galkina, K. Feve, S. Derjusheva, E. Gaginskaya, B. Bed'Hom, A. Vignal, V. Fillon and F. Pitel
- **Current knowledge of colour genes in the chicken**
D. Gourichon, B. Bed'Hom, A. Vieaud, J.-L. Coville and M. Tixier-Boichard
- **Identification of the mutation responsible for photosensitive reflex epilepsy in the chicken**
M. Douaud, K. Feve, F. Pituello, F. Medevielle, D. Gourichon, A. Vieaud, C. Batini, R. Naquet, M. Tixier-Boichard, A. Vignal and F. Pitel
- **Utilization of transcriptome to reduce the localisation of a QTL responsible for variability in fat content in broilers**

G. Le Mignon, F. Pitel, C. Desert, S. Leroux, O. Demeure, M. Douaire,
P. Le Roy and S. Lagarrigue

- **Role of AMP-activated protein kinase in Sertoli cell activity in chickens (*Gallus domesticus*).**

P. Froment, C. Ouiste, R. Pelletier and J.-P. Brillard

14:00 - Product Safety and Quality Workshop

Salle Lammenais 2 (Level 2)

Chaired by: Y. Nys - Inra, C. Roux - Gastronom

- **Factors influencing bacterial contamination of egg shells produced in conventional and furnished cages and alternative systems**

A. Huneau-Salaün, V. Michel, D. Huonnic, L. Balaine and S. Le Bouquin

- **Bacteria from the *Bacillus cereus* group in the egg production industry: occurrence and risk factors**

J. Puterflam, C. Le Maréchal, A. Koné, N. Grosset, S. Jan and F. Baron

- **Comparison of the effect of two Omega 3 sources on the nutritional quality of eggs for consumption**

N. Mathlouthi, H. Fourati, E. Ouerghi and R. Bergaoui

- **Effect of temperature, storage time and embryonic development on the antimicrobial activities of the egg white**

S. Réhault-Godbert, F. Baron, M. Gautier and Y. Nys

- **What are the specific carcass characteristics of the Géline de Touraine?**

E. Baeza, P. Chartrin, T. Bordeau, E. Le Bihan-Duval, M. Lessire,
J. Besnard and C. Berri

- **An initial approach to the technological characterisation of hen meat for an innovative brand strategy**

F. Guerder, E. Parafita, M. Debut and S. Vialter

- **Modulating muscle glycogen content through feeding to improve chicken meat quality**

M. Jlali, V. Sibut, N. Sellier, S. Tesseraud, S. Metayer Coustard,
V. Gigaud, M. Duclos, E. Le Bihan-Duval and C. Berri

- **Characterisation of chicken muscle response to restraint stress 1-transcriptomic analysis**

D. Hazard, C. Molette, H. Rémignon and X. Fernandez

- **Study of tissue residue depletion of monensin in the chicken and the turkey**

B. Roudaut, E. Dubreil, J. Henri, P. Sanders, C. Burel and R. Maurice

14:00 – Pathology and Prevention Workshop

Lammenais 1 (Level 2)

Chaired: I. Kempf - Afssa, J. Bertin - Le Guessant

- **Emergence of new variants of Gumboro virus in the West of France**
A.-L. Ledoux and H. Jaunet
- **Influence of age and sampling season of seropositiveness of avian influenza virus H5 sub-type in breeding palmipedes for 2005 to 2007**
A. Schmitz, S. Bougeard, C. Guillemoto, I. Pierre, M.-O. Le Bras, C. Allée, J. Lamandé, V. Jestin and V. Jestin
- **Epidemiologic study of broiler flocks contaminated with Salmonella spp. in France. Contamination prevalence and associated risk markers**
S. Le Bouquin, V. Allain, S. Rouxel, I. Petetin, M. Picherot, V. Michel and M. Chemaly
- **In vitro sensitivity of Ornithobacterium Rhino-tracheale to Tilmicosin: Influence of pH and CO₂**
C. Zadjian, C. Bostvironnois et J. Leorat
- **Study of the synergic effect of Tiamulin associated with Doxycylin on the respiratory form of Ornithobacterium rhino-tracheale infection in the turkey; validation of in vitro and in vivo efficacy**
C. Caudron, M.-A. Briffaud, V. Chevallereau, C. Goudeau and X. Chatenet
- **Study of residual paracetamol in ducks after repeated oral administration of a paracetamol-based speciality**
C. Zemirline, N. Capdevielle, J. Goutalier and M. Corbisier
- **Effect of three plant extracts and two fungal extracts on performance of broilers subjected to coccidiosis**
L. Mazuranok, D. Bravo, C. Ionescu, M. Naciri and A. Vikari
- **Efficacy of a nutritional supplement (VG) in preventing chicken mortality due to heat stress**
A. Keřta, A. Anty, S. Warin, P. Pommier, E. Pagot and V. Kirche

15:30 – Plenary Session: Genetics, Selection and Reproduction

Auditorium Chateaubriand (Ground floor)

Chaired by: M. Douaire - Inra, B. Pelé - Hendrix Genetics

- **Genomics: achievements and outlook**
S. Lagarrigue and E. Le Bihan-Duval
- **Identification of new shell genes potentially involved in the natural**

defence of the egg

V. Jonchere, Y. Nys, L. Cogburn, C. Hennequet-Antier, C. Cabau,
S. Réhault-Godbert, V. Sibut, V. Hervé-Grépinet and J. Gautron

- **Molecular typing of the Major Histocompatibility Complex in the chicken: for a better genotypic characterisation**

O. Chazara, M.-H. Pinard-Van Der Laan, M. Tixier-Boichard and
B. Bed'Hom

- **The “Leghorn double yellow” line: a model for studying genetic determinism of the hen’s ovulation rate**

A. Vieaud, S. Fabre, D. Gourichon, J.-L. Coville, T. Heirman and
M. Tixier-Boichard

- **Modelling the laying curve can possibly be used in selection**

H. Chapuis and C. Robert-Granié

17:00 – Closing speech Gilles Salvat - AFSSA