11\textsuperscript{th} edition of
POULTRY RESEARCH DAYS
25\textsuperscript{th} & 26\textsuperscript{th} MARCH 2015
TOURS - FRANCE

Two days dedicated to scientific and technologic evolutions in the Poultry industry
Wednesday 25th March 2015

8h00: REGISTRATION - WELCOMING COFEE

09h15: OPENING SPEECHES
François HOULLIER - INRA, Gilles SALVAT - ANSES and Anne RICHARD - ITAVI

ANIMATION: Philippe CHEMINEAU - INRA and François-Xavier SIMON - Agra Europe

10h00: The French poultry sector facing European and global competition: Recent dynamics and reasons for hope
Vincent CHATELLIER, Pascale MAGDELAINE and Gilles HUTTEPAIN

10h45: COFFEE BREAK

11h15: Change in poultry farming systems: how to overcome controversies
François PURSEIGLE, Isabelle LE BALLEUR, Laure BIGNON, Elsa DELANOUE, Catherine BEAUMONT, Christine LETERRIER, Claude AUBERT, Christine ROGUET and Isabelle BOUVAREL

12h00: The food safety of poultry products: the US and the UE view
Sylvie COULON, Jean-Yves FERRE and Gilles SALVAT

12h45: LUNCH BREAK

14h30: Strategies for genetic selection in poultry
Frédéric GRIMAUD, Olivier DEMEURE, Daniel GUEMENE and Elisabeth LE BIHAN-DUVAL

15h15: Local sources of protein for poultry feed: which improvements paths ?
Emilie RECOULES, Nicolas BREVAULT, Patricia LECADRE, Michel LESSIRE and Isabelle BOUVAREL

16h00: COFFEE BREAK

16h30: Antimicrobial use: impact on animal and human health and reduction approaches
Claire CHAUVIN, Joël BERTIN, Jean-François GUILLOT, Charlotte DUNOYER, Caroline BOUDERGUE and Étienne GIRAUD

17h15: SPEECH of PROFESSIONAL ORGANIZATIONS
Michel PRUGUE and Gilles HUTTEPAIN

17h45: GENERAL ASSEMBLY OF WPSA / POSTER VIEWING

18h30: Cocktail HOSTED BY CIFOG

20h00: CLOSURE OF DOORS
Thursday 26th March 2015

8h00: REGISTRATION - WELCOMING COFEE

8h30: NUTRITION

Auditorium

Chaired by: Claire LAUNAY – INVIVO NSA and Françoise MEDALE - INRA

SYNTHÈSE:

NIRS: A TOOL FOR PRECISION FEEDING, FROM THE FACTORY TO THE FARM
Denis BASTIANELLI, Cécile GADY, Patrick HOGREL

Factors affecting nutrient digestibility in broilers: synthesis of DIGSPIR project results
Jean-Paul METAYER, Philippe LESCOAT, Denis BASTIANELLI, Isabelle BOUVAREL, Yann FOURNIS,
Maria VILARIÑO

Variability of starch digestibility in broilers fed with wheat-based diets: effects of age
and feeding behaviour
Justine DANEL, Jean-Paul METAYER, Maria VILARIÑO

Effects of raw materials’ grinding with disc mill on feed particle size and digestibility
for broiler chicken.
Stephanie KLEIN, Yannick THORAVAL, Adeline MATHIAUD, Eric MANSUY

Combined effect of near infra-red spectroscopy and non-starch polysaccharide
fibrolytic complex on performance of broilers chickens fed diet with low quality feed
ingredients
Roberto MONTANHINI NETO, Maria FRANCESCH, Cecile GADY, Eric N’GUETTA, Friedrich
ROUFFINEAU, Aurélie PREYNAT

Energy sparing enzymes in poultry nutrition: new mode of action of enzymes
Nejib MATHLOUTHI, Frank Lee JIN

8h30: ECONOMY

Salle 1

Chaired by: Pascale MAGDELAINE - ITAVI and Yves TREGARO – FranceAgriMer

Structure and organization of the poultry sector in the USA
Camille DEMAN

Structure and organization of the egg sector in the USA
Guillaume COUTELET

Free trade agreement between the USA and the EU, which stakes for the poultry
meat and egg sectors ?
François CADUDAL

Historical views on the French great export of chicken sector and prospects
Yves TREGARO

Insurance and poultry farming in Algeria "heatwave case"
Nadia CHERIFI, Faiza MEBKHOUT, Safia ZENIA
8h30: PATHOLOGY AND PREVENTION

Salle 2

Chaired by: Jean-Luc GUERIN - ENVT and Jacques ROBERTON - Vétérinaire consultant SNGTVP

SYNTHÈSE:
SANIVOL: OPTIMIZATION OF SANITARY MANAGEMENT IN POULTRY FARMS
Julie PUTERFLAM, Adeline HUNEAU-SALAÜN, Nathalie ROUSSET, Alassane KEÏTA, Angélique TRAVEL, Rozenn SOUILLARD, Pascal GALLIOT, Maryse GUINEBRETIÈRE, Gérard AMAND, Sophie LE BOUQUIN, Virginie MICHEL

Alternatives to the use of formaldehyde for the disinfection of hatching eggs: DCCNa and vapor H2O2-30%
Julie PUTERFLAM, Aurore GUILLOT, Manuel TAVARÈS, Pascal GALLIOT, Adeline HUNEAU-SALAÜN, Pierre MARIS, Alassane KEITA

Environnemental contamination of Clostridium botulinum in poultry botulism outbreak.
Rozenn SOUILLARD, Caroline LE MARECHAL, Denis LEON, Sandra ROUXEL, Valentine BALLAN, Mohamed DIA, Cédric WOUDSTRA, Patrick FACK, Marie-Hélène BAYON-AUBOYER, Sophie LE BOUQUIN

How to anticipate outbreaks of Dermanyssus gallinae populations in layer farms?
Geoffrey CHIRON, Arthur VARESCON, Sophie LUBAC, Dominique BICOUT, Lise ROY

Sporulation of Eimeria oocysts: ability of E. acervulina and E. meleagrimitis to sporulate depends on time after the formation of oocysts
Jean-Michel REPERANT, Martine THOMAS-HENAFF, Chantal BENOIT, Pierre LE BIHANNIC, Stéphane ATHIMON, Denis CHEVALIER, Ghislaine EDDARAI, Claire LEFORT, Jean LEORAT, Yannick LE QUILLEC, Arafat MAHAMAT AHMAT, Grégoire MIDY, Elodie PAPIN, Gaëtan ROCABOY, Gilles LE POTTIER

Professional exposure to chlamydiaceae in poultry slaughterhouses
Virginie HULIN, Sabrina OGER, Fabien VORIMORE, Rachid AAZIZ, Bertille DE BARBEYRAC, Jacques BERRUCHON, Konrad SACHSE, Karine LAROUCAU

Evaluation of attenuated strains of Pasteurella multocida for the prevention of fowl cholera
Sophie GUILLERMIER, Chantal RAMEL, Philippe BAUDO, Nathalie CACHET, Stéphanie GALLEAU, Francois-Xavier LE GROS, Sylvain GOUTEBROZE, Camille MONTANGE, Christine ANDRÉONI, Hervé POULET, JOLIVET
8h30: GENETICS

Salle 3

Chaired by: Magali BLANCHET - Grimaud Frères Sélection and Denis MILAN - INRA

SYNTHÈSE:

EPIGENETICS AND PHENOTYPIC VARIABILITY: WHAT SIGNIFICANCE IN POULTRY?
Laure FRÉSARD, Mireille MORISSON, Jean-Michel BRUN, Anne COLLIN, Bertrand PAIN, Francis MINVIELLE, Frédérique PITEL

Impact of embryonic heat exposure on broiler methylome
Vincent COUSTHAM, Julien PLENECASSAGNE, Clara LEJEUNE, Sarah-Anne DAVID, Sabine CROCHET, Thomas LOYAU, Tatiana ZERJAL, Sophie LEROUX, Diane ESQUERRE, Gérald SALIN, Céline NOIROT, Frédérique PITEL, Anne COLLIN

Changes in the embryonic environment have an effect on phenotypes of third generation offspring in quail.
Sophie LEROUX, David GOURICHON, Christine LETERRIER, Yann LABRUNE, Vincent COUSTHAM, Tatiana ZERJAL, Mireille MORISSON, Francis MINVIELLE, Frédérique PITEL

Long term culture of Primordial germ cells (PGCs) as a tool for cryopreservation of avian genetic diversity: establishment, characterization and quality
Bertrand PAIN, Clémence KRESS, Aurélie FUET, Franca RAUCCI

Fine mapping of QTL for carcass and meat quality traits in a chicken slow-growing line
Sophie ALLAIS, Christelle HENNEQUET-ANTIER, Cécile BERRI, Marie CHABAULT, Laurent SALLES, François D’ABADDIE, Olivier DEMEURE, Elisabeth LE BIHAN-DUVAL

Combining selective sweep mapping, coding SNP annotation and expression reveals PARK2 and JAG2 as new potential regulators for adiposity
Pierre-François ROUX, Simon BOITARD, Yuna BLUM, Brian PARKS, Alexandra MONTAGNER, Etienne MOUSEL, Anis DJARI, Diane ESQUERRE, Colette DESERT, Morgane BOUTIN, Sophie LEROUX, Frédéric LECERF, Elisabeth LE BIHAN-DUVAL, Christophe KLOPP, Bertrand SERVIN, Frédérique PITEL, Michel J. DUCLOS, Hervé GUILLOU, Aldons Jake LUSIS, Olivier DEMEURE, Sandrine LAGARRIGUE

QTL detection of excretion-related traits in meat-type chickens
Sandrine MIGNON-GRATEAU, Bernard CARRÉ, Irène GABRIEL, Nicole RIDEAU, Céline CHANTRY-DARMON, Marie-Yvonne BOSCHER, Denis BASTIANELLI, Nadine SELLIER, Marie CHABAULT-DHUJT, Elisabeth LE BIHAN-DUVAL, Agnès NARCY

10h30: BREAK AND POSTER VIEWING

11h00: NUTRITION

AUDITORIUM

Chaired by: Claire LAUNAY – INVIVO NSA and Françoise MEDALE – INRA
Nutritional value of organic raw material for poultry
Hervé JUIN, Antoine ROINSARD, Célia BORDEAUX

Characterization of proteins in the digestive tract of broilers fed four different protein sources
Emilie RECOULES, Houda SABBOH-JOURDAN, Agnès NARCY, Michel LESSIRE, Grégoire HARICHAUX, Michel J. DUCLOS, Sophie RÉHAULT-GODBERT

Reducing dietary crude protein of broiler: a meta-analysis approach
Pauline BELLOIR, Michel LESSIRE, Jacob VAN MILGEN, Etienne CORRENT, Philippe SCHMIDELY, Sophie TESSERAUD

Impact of dietary phosphorus and calcium concentrations on their deposition in soft and bone tissues in chicks
Agnès NARCY, Xavière ROUSSEAU, Nathalie MEME, Michel MAGNIN, Yves NYS

Effects of 6-phytase supplementation on myo-inositol concentration and on the Pectoralis muscle transcriptome in broilers
Jérôme SCHMEISSER, Raffaella AURELI, Patrick GUGGENBUHL

Development of an easy method to compare the bioavailability of different selenium sources in broiler chicks
Florian COULOIGNER, Maamer JLALI, Mickaël BRIENS, Friedrich ROUFFINEAU, Pierre-André GERAERT, Yves MERCIER

11h00: ECONOMY
Salle 1

Chaired by: Pascale MAGDELAINE - ITAVI and Yves TREGARO – FranceAgriMer

Situation and prospects for the french egg industry
Pascale MAGDELAINE, Cécile RIFFARD

Characteristics of poultry farms in 2010
Sylvain GALLOT

Typical farms approach in poultry farming: which interests in comparison with other livestock farming data collecting tools?
Romaric CHENUT

Future of the French poultry and egg sectors in 2025: four constrasting scenarios
Guillaume COUTELET, Pascale MAGDELAINE

11h00: PATHOLOGY AND PREVENTION
Salle 2

Chaired by: Jean-Luc GUERIN - ENVT and Jacques ROBERTON - Vétérinaire consultant SNGTV

SYNTHÈSE:
AVIAN INFLUENZA AND NEWCASTLE DISEASE: RECENT KNOWLEDGE’S IMPROVEMENT; PRACTICAL EXPERIENCE IN FRANCE, FRENCH-SPEAKING AFRICA AND THE MIDDLE EAST
Véronique JESTIN and Eugène GOATER

High pathogenicity and low genetic evolution of avian paramyxovirus type I (Newcastle disease virus) isolated from live bird markets in Uganda
Denis BYARUGABA, Kizito MUGIMBA, John OMONY, Martin OKITWI, Agnes WANYANA, Maxwell OTIM, Halid KIRUNDA, Jessica NAKAVUMA, Angélique TEILLAUD, Mathilde PAUL, DUCATEZ

Infectious Bursal Disease: diagnosis using VP1 and VP2 sequence determination, method used for a field survey.
Nadine CARIOU, Pierre Yves MOALIC, David SCHIKORSKI, Mickaël HILLION, Brice ROBINEAU

High-throughput screening of avian respiratory pathogens using a nanofluidic real-time PCR platform.
Guillaume CROVILLE, Alexis SENET, Charlotte FORET, Mariette DUCATEZ, Faouzi KICHOU, Mohammed MOUAHID, Jean-Luc GUÉRIN

Modifying the non-structiral protein NS1 of an avian influenza virus increases its pathogenicity and replication potential
Sascha TRAPP, Denis SOUBIEUX, Hélène MARTY, Evelyne ESNAULT, Adrien LION, Emmanuel KUT, Pascale QUÉRÉ, Thibaut LARCHER, Nadia NAFFAKH, Daniel MARC

WVPA AWARD FOR THE BEST PAPER IN AVIAN PATHOLOGY

11h00: GENETICS
Salle 3
Chaired by: Magali BLANCHET – Grimaud Frères Sélection and Denis MILAN – INRA

Genetic contribution to leg health in broilers
Dagmar KAPELL

A genomic approach of chicken domestication
Michèle TIXIER-BOICHARD, Mahendra MARIADASSOU, Xavier ROGNON, Pierre NICOLAS, François RODOLPHE, Alain VIGNAL, Diane ESQUERRÉ, Jean-Luc COVILLE, Frédéric HOSPITAL, Agathe VIEAUD, Bertrand BED'HOM

Effect of the line-by-diet interaction on live performances in two broiler lines selected divergently for the ultimate ph of breast muscle
Nabeel ALNAHHAS, Cécile BERRI, Marie CHABAULT-DHUIT, Thierry BORDEAU, Marie BOURIN, Cécile ARNOULD, Elisabeth LE BIHAN-DUVAL

Detection of QTL influencing egg production in layers receiving various diets
Hélène ROMÉ, Amandine VARENNE, Frédéric HÉRAULT, Hervé CHAPUIS, Christophe ALLENO, Patrice DEHAIS, Alain VIGNAL, Thierry BURLOT, Pascale LE ROY
Genetic architecture of social and fear behaviours in relation to production traits in Japanese quail.
Julien RECOQUILLAY, Frédérique PITEL, Cécile ARNOULD, Sophie LEROUX, Patrice DEHAIS, Carole MORÉNO, Ludovic CALANDREAU, Aline BERTIN, David GOURICHON, Olivier BOUCHEZ, VIGNAL, Maria-Ines FARIELLO, Francis MINVIELLE, Catherine BEAUMONT, Christine LETERRIER, Elisabeth LE BIHAN-DUVAL,

Protec QTL: a tool to understand fatty liver quality?
Yoannah FRANCOIS, Caroline MOLETTE, Alain VIGNAL, Stéphane DAVAIL, Christel MARIE-ETANCELIN

12h30: LUNCH BREAK

14H00: NUTRITION
AUDITORIUM
Chaired by: Claire LAUNAY – INVIVO NSA and Françoise MEDALE - INRA

SYNTHESE:
MYCOTOXINS IN POULTRY: THE POINT ON CURRENT ISSUES
Jean-Denis BAILLY, Michel MAGNIN, Angélique TRAVEL, Philippe GUERRE

Analysis of mycotoxins in French poultry compound feeds
Erwan LEROUX, Eric MARENGUE, Elise NACER KHODJA

Can plasma metabolites predict fat deposition in peripheral tissues of chicken?
Maëva JÉGOU, Isabelle LOUVEAU, Florence GONDRET, Julie LALANDE-MARTIN, Illea TEA, Elisabeth LE BIHAN-DUVAL, Cécile BERRI, Colette DESERT, Sandrine LAGARRIGUE, Michel J. DUCLOS, COLLIN, Sonia METAYER-COUSTARD, Elisabeth BAÉZA

Impact of dietary energetic source on microbial digestive metabolites in the chicken
Irène GABRIEL, Julie LALANDE, Illea TEA, Florence GONDRET, Sandrine LAGARRIGUE, Elisabeth BAEZA, Agnès NARCY, Michel J. DUCLOS

Influence of choice feeding and cereal types (maize or triticale), during the finishing period on performance of mule ducks
Julien ARROYO, Laurence FORTUN-LAMOTHE, Jean-Pierre DUBOIS, Franck LAVIGNE, Mohamed BIJJA, Caroline MOLETTE

Comparison of feeding behaviour between Muscovy drakes and mule ducks
Emilie COBO, Hélène GILBERT, Michel LAGUE, Jean-Bernard LAVERZE, Edmond RICARD, Alexis CORNUEZ, Xavier MARTIN, Laurence DROUILHET, Christel MARIE-ETANCELIN

Laying performance and egg-shell improvements by addition of a bacterial xylanase in wheat based diets for laying hens
Christelle Boudry, Jean-Christophe BODIN

Quantitative recovery of probiotic bacteria (Pediococcus acidilactici) in the gut segments of laying hens
David GUILLOU, Caroline MULSANT, Audrey SACY, Lucien ROFFIDAL
Laying hens flock variability and consequences on amino acid requirement
Fabien GALEA

Effect of different tryptophan to lysine ratios to laying performance and phenotypical stress parameters in laying hens under two stocking densities in floor pens
Ariane HELMBRECHT, Christian ELWERT, Mathieu LEPOUDERE

Feeding broiler breeder hens with diets containing reduced levels of Zn, Cu, Mn as chelates compared to industry levels as sulfates/oxides improve hatching rate and progeny quality
Pierre BUTTIN, Alleno CHRISTOPHE, Michard JACKY, Megharaja MANANGI

14H00: ENVIRONMENT, ANIMAL WELFARE AND BREEDING SYSTEMS
Salle 1
Chaired by: Stéphane INGRAND - INRA and Marcel SAINT-CRICQ - CEPSO

SYNTHÈSE:

THE POULTRY HOUSE, A STRATEGIC INSTRUMENT FOR COMPETITIVENESS AND SUSTAINABILITY OF THE SECTOR
Dylan CHEVALIER, Christian NICOLAS, Gérard AMAND

News from research in poultry welfare from the 2014 international congress on Welfare Assessment at Farm Level
Christine LETERRIER, Laurence GUILLOTEAU, Joop LENSINK, Vanessa GUESDON

Dust concentrations in the air of duck hatcheries
Adeline HUNEAU-SALAÜN, Julie PUTERFLAM, Eric JOUY, Laëtitia LE DIVENDEC, Isabelle KEMPF, Nathalie ROUSSET, Sophie LE BOUQUIN

Turkey brooding in specific houses: management and performances
Elodie DEZAT, Elodie PIAGACHE

Does diversity of free-range systems mean diversity of welfare levels in laying hens ?
Florine SERURRIER, Céline CAYEZ, Joop LENSINK, Hélène LERUSTE, Jasper HEERKENS, Frank TUYTTENS, Vanessa GUESDON

Ducks Welfare: Evaluation of the physical integrity of mule duck in commercial farms and identification of risk factors
Joanna LITT, Julia CHAUMIER, Marie LABORDE, Marie-Dominique BERNADET, Julie VOGELAER, Mathieu BOUCHER, Laure BIGNON

OVALI: a practical tool to assess the sustainability of poultry supply chains 2 - Designing new production systems
Léonie DUSART, Bertrand MÉDA, Juliette PROTINO, Dylan CHEVALIER, Elodie DEZAT, Romaric CHENUT, Paul PONCHANT, Philippe LESCOAT, Cécile BERRI, Isabelle BOUVAREL

Use fiber in feed and "menue chaff" as litter to Improve the broilers welfare
Laure BIGNON, Amandine MIKA, Mathilde DUPIN, Léonie DUSART, Angélique TRAVEL, Agnès NACRY, Marion BOURNAZEL, Marie BOURIN, Frédéric MERCERAND, Muriel NACIRI, Michel MAGNIN, Jean GARET, Isabelle BOUVAREL
Replacing soybean meal by alternative protein sources: Multicriteria assessment of medium-growing chicken production system
Michel LESSIRE, Léonie DUSART, Bertrand MEDA, Jean-Marc HALLOUIS, Thierry BORDEAU, Christophe SOUCHET, Frédéric MERCERAND, Cathy HATTE, Isabelle BOUVAREL, Cécile BERRI

Impact of colistin treatment on the microbiota and stored or composted manure of broilers: bacteria and resistance genes
Laetitia LE DEVENDEC, Gwenaelle MOURAND, Julien LEAUSTIC, Nathalie ROUSSET, Pascal GALLIOT, Manuel TAVARES, Alassane KEITA, Isabelle KEMPF

Kinetics of spontaneous liver steatosis development in geese and relationship with food intake
Xavier FERNANDEZ, Gérard GUY, Jean-Bernard LAVERZE, Cécile Md BONNEFONT, Laurence FORTUN-LAMOTHE

14H00: HYGIENE AND FOOD QUALITY
Salle 2
Présidents: Ivan JEGO – Gastronome and Caroline Molette - ENSAT INRA

SYNTHÈSE:
CURRENT SITUATION OF QUALITY DEFECTS FOR CARCASSES AND MEAT OF CHICKENS
Elisabeth BAEZA, Marie BOURIN, Virginie ALLAIN, Jean-Philippe PRIGENT, Sophie LEOUQUIN, Catherine MAGRAS

SYNTHÈSE:
CAMPYLOBACTER CONTROL STRATEGIES IN BROILERS: FACT OR FICTION
Marianne CHEMALY, Julie MAYOT

Quantitative Risk Assessment (QRA) for Clostridium botulinum in french canned Foie Gras
Jeanne-Marie MEMBRÉ, Moctar DIAO, Chantal THROR, Grégoire CORDIER, François ZUBER, Stéphane ANDRÉ

Consequences of a selection on breast meat ultimate pH on muscle fiber typology and metabolism in broiler
Stephane BEAULCERCO, Elisabeth BAÉZA, Thierry BORDEAU, Pascal CHARTRIN, Estelle GODET, Elisabeth LE BIHAN-DUVAL, Cécile BERRI

What are the rearing factors that favor oxidation of turkey meat?
Marie BOURIN, Elisabeth BAEZA, Amandine MIKA, Estelle GODET, Pascal CHARTRAIN, Agathe MAUDOUIT, Juline LAUNAY, Charlie DUCHEMIN, Zoé MOREL, Véronique SANTÉ-LHOUTELLIER, BERRI

Effect of different dietary sources of n-3 fatty acids on the laying performance and technological, nutritional and sensorial quality of eggs
Pascal CHARTRIN, Elisabeth BAÉZA, Michel LESSIRE, Karine MÉTEAU, Guillaume CHESNEAU, Mathieu GUILLEVIC, Jacques MOUROT

Avian eggshell formation: Presence of amorphous calcium carbonate associated with changes in some organic matrix proteins during initiation of mineralisation
OVAX, an egg white ovalbumin-related protein with antimicrobial activities
Sophie REHAULT-GODBERT, Valérie LABAS, Magali CHESSE, Joel GAUTRON, Franck COSTE, Nicolas GUYOT, Yves NYS

Effect of corm type and fasting duration before slaughtering on biochemical and functional post-genomics characteristics of fatty liver in mule ducks
Cécile BONNEFONT, Rawane EL KOUBA, Marina TRAVANCA, Sébastien DÉJEAN, Alain VIGNAL, Michel BOUILLIER-OUĐOT, Nathalie MARTY-GASSET, Emmanuelle LABARTHE, Hélène MANSE, Julien ARROYO, Jean-Pierre DUBOIS, Didier VIALA, Christophe CHAMBON, Caroline MOLETTE

Brominated Flame Retardants in eggs from French laying hen farms
Adeline HUNEAU-SALAÜN, Angélique TRAVEL, Ronan CARIOU, Loic BALAINE, Christophe SOUCHET, Anaïs VÉNISSEAU, Alicia CHARPIOT, Gaud DERVILLY-PINEL, Philippe MARCHAND, Bruno LE BIZEC, JONDREVILLE, Sophie LE BOUQUIN

CLOSURE OF DOORS
Poster

ECONOMY

Technical-economic performance and practices in breeding poultry breeders ponte.
Case of Algeria
Ahcène KACI

Main changes in the fatty liver market and in technical results of breeding and fattening workshops over the past decade
Joanna LITT, Marie-Pierre PE

ENVIRONMENT, ANIMAL WELFARE AND BREEDING SYSTEMS

Socio-economic study of local poultry farms in the Aures region (Algeria)
Nadir ALLOUI, Sassia SELLAOUI

Technical characteristics of egg farming. (Batna.Algerie)
Rachid ADJROUDI

Performance of breeding of broiler chickens in mountain area: the case of Tizi-ouzou
Azeddine MOUHOUS, Si Ammar KAD

Outcome of AlterAvi platform: 5 years of trials in organic broilers
Karine GERMAIN, Eddie LAMOTHE, Hervé JUIN

Ways of organization for the supply of local race chick for professionnal breeders
Sophie LUBAC, Leslie PALOP, Daniel GUEMENE

Technical and Economic Indicators of Broiler Production in Eastern Algeria
Derradjji OUACHEM

Selection for sustainable resource utilisation in turkeys
Valentin KREMER

Multicriteria assessment of different rearing systems for intermediary growing broilers
Marie BOURIN, Laure BIGNON, Sarah GUARDIA, Frédéric MERCERAND, Bertrand MÉDA, Léonie DUSART, Isabelle BOUVAREL, Cécile BERRI

Management of the environment in rooms force-feeding ducks: survey to producers
Gérard AMAND, Marie LABORDE, Paul ROBIN, Clémence AUDREN, Céline PEILLOD

Development of a rating scale to assess the quality of duckling at hatching
Josette BARRIEU, Jean-Bernard LAVERZE, Xavier MARTIN, Mireille MORISSON, Caroline MOLETTE, Hélène GILBERT, Emilie COBO

Environmental impacts of the goose's foie gras production: comparison of systems with or without force-feeding.
Mathilde BRACHET, Gérard GUY, Xavier FERNANDEZ, Julien ARROYO, Laurence FORTUN-LAMOTHE

Difficulties and opportunities for the valuation of rare breeds products
Geoffrey CHIRON, Sophie LUBAC, Lucie MARKEY, Anne LAUVIE, Fanny MOYSE, Christele COUZY
Effect of heat exchanger on poultry performances
Elodie DEZAT, Christian NICOLAS, Sophie PATTIER, Dylan CHEVALIER, Stéphane DESSE

Long-term effects of delayed transportation and suboptimal conditions on chick health and performance
Alexia KOCH, Christine LETERRIER, Anne COLLIN, Frédéric MERCERAND, Christophe RAT, Joël DELAVEAU, Isabelle GRIMAUD, Paul CONSTANTIN, Sabine CROCHET, Estelle CAILLEAU-AUDOIN, Laurence GUILLOTEAU

Effects of different lighting sources on the performance and carcass quality of guinea fowl broilers
Alassane KEÏTA, Jean-Michel OIZEL, Jean-Michel MANGART, Manuel TAVARES

Different stocking densities in broiler chickens: effect on performances, welfare, thermal and environmental aspects
Alassane KEÏTA, Manuel TAVARES, Paul ROBIN, Gérard AMAND, Christian NICOLAS, Dylan CHEVALIER

Interest of different materials for picking and scratching area for laying hens in furnished cages: behavior and eggs quality analysis
Alicia CHARPIOT, Geoffrey CHIRON, Laure BIGNON, Maryse GUINEBRETIERE, Cécile RIFFARD, Sophie LUBAC, Agnès BOUGERET

Heat production of force-feeding ducks
Paul ROBIN, Gérard AMAND, Céline PEILLOD, Marie LABORDE

Welfare evaluation of broiler chickens in factory farming in Algeria
Si Ammar KADI, Assia BOUCHEMA, Azeddine MOUHOUS

Effects of different types of litter on the occurrence and the severity of lesions and behavior of fast-growing broilers
Laure BIGNON, Amandine MIKA, Mylène CHAudeau, Mathilde DUPIN, Frédéric MERCERAND, Isabelle BOUVAREL

Embryo heat acclimation: what molecular mechanisms are modified in broilers at slaughter age?
Thomas LOYAU, Christelle HENNEQUET-ANTIER, Sonia METAYER-COUSTARD, Marie LEDUC, Sabine CROCHET, Estelle CAILLEAU-AUDOIN, Mélanie SANNIER, Cécile BERRI, Michel J. DUCLOS, Sophie TESSERAUD, Nathalie COUROUSSE, Pascal CHARTRIN, Christophe PRAUD, Nadia EVERAERT, Nicole RIDEAU, Sandrine MIGNON-GRASTEAU, Marco MOROLDO, Jérome LECARDONNEL, Patrice MARTIN, Vincent COUSTHAM, Sandrine LAGARRIGUE, Shlomo YAHAV, Anne COLLIN

Sanitary management during poultries collection - practicals' overview in french farms.
Gaëlle DENNERY, Dylan CHEVALIER, Marie-Laëtitia GILLIOT, Joanna LITT, Freddy BODIN, Benoit LÉVRIER, Laure BIGNON

Water's quality in broiler farming in algiers area
Fatma AMARA MADI, Taha Mossadek HAMDI, Ali BENOUADAH, Chafik MESSAI

Development of a grid of indicators for the assessment of the physical integrity of the mule duck
Influence of modernization of public housing gavage rooms on effluent volumes produced
Nathalie CASTETBON, Marie LABORDE

Impacts of soil intake on laying hens performance, egg quality and feed energy metabolisability
Angélique TRAVEL, Michel LE FRANÇOIS, Amandine MIKA, Jean-Marc HALLOUIS, Stefan JURJANZ, Michel LESSIRE, Yves NYS, Yayu HUANG, Catherine JONDREVILLE

The outdoor run as a protein source for organic broilers
Karine GERMAIN, Hervé JUIN, Eddie LAMOTHE, Antoine ROINSARD

Using miscanthus as bedding for mule duck breeding during starting? Comparison with chopped straw
Joanna LITT, Nathalie ROUSSET, Paul PONCHANT

Copper and Zinc accumulation in soils of two organic poultry outdoor runs
Madjid BOUTAOUS, Christian WALTER, Pierre BUTTIN, Karine GERMAIN

Impact of rearing waterfowl on the insect biodiversity: 1st study
Mohamed BIJJA, Franck LAVIGNE, Jean-Pierre DUBOIS, Julien ARROYO

OVALL: a practical tool to assess the sustainability of poultry supply chains
Assessing the existing to identify ways for improvement
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