



Combined workshop of WPSA

"Fundamental Physiology and Perinatal Development in Poultry"

And

"Incubation and Fertility Research Group"

Tours – France August 28 – 30, 2019

Program



Scientific Committee

Anne Collin – BOA, INRA, Université de Tours, France, Chair of the Scientific Comitee

Barbara Tzschentke - Humboldt University, Berlin (Head of WPSA WG12), Germany

Marleen Boerjan - Pas Reform (Head of WPSA WG6), The Netherlands

Glenn K Baggott - Assistant Editor, British Poultry Science

Vincent Coustham, Sonia Métayer-Coustard, Nicolas Guyot, Sophie Réhault-Godbert, Sophie Tesseraud, Michel Duclos - BOA, INRA, Université de Tours, France

Pascal Froment, Elisabeth Blesbois, Joelle Dupont - PRC, INRA, CNRS, IFCE, Université de Tours, France

Sylvain Brière - Hendrix Genetics, France

Angélique Travel - ITAVI, France

Organizing Committee

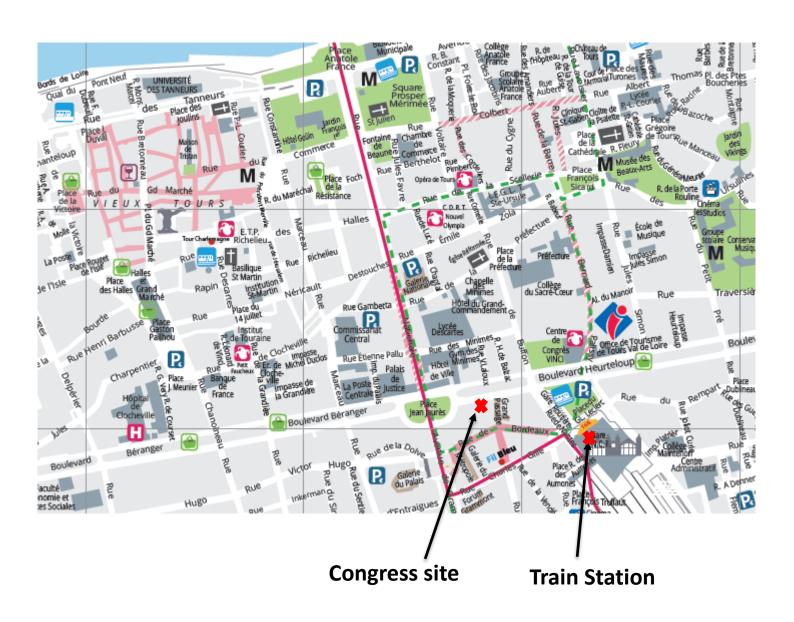
Christine Lessire, French WPSA branch

Christophe Bostvironnois – CHR-HANSEN, President of the French WPSA branch

Catherine Hamelin – Groupe CCPA, Treasurer of the French WPSA branch

Congress Venue

Hotel Océania-Univers 5 Boulevard Heurteloup 37000 Tours



Wednesday August 28 th		
09:00-09:45	Registration and welcome coffee	
09:45-10:00	Welcome from the Scientific Committee	
10:00-12:10	Session 1: Dynamics of hormones and nutrients in the egg, the embryo and the chicken	
Chairpersons:	Regulation of the hepatic metabolic switch during perinatal development of the chicken Keynote lecture: Porter T.E. and Liu HC.	
S. Tesseraud & B. Tzschentke	Metabolomic analysis of nutrient sources in the embryonic egg of two divergent lines for meat ultimate pH Petit A., Réhault-Godbert S., Nadal-Desbarats L., Cailleau-Audouin E., Jimenez J., Chartrin P., Raynaud E., Bernardet N., Chesse M., Le Bihan-Duval E., Métayer-Coustard S.	
	Intestinal brush border maturation during the peri-hatch period: the effects of in-ovo feeding of L-Glutamine Reicher N., Dayan J., Uni Z.	
	Expression of Chemerin in the magnum of chicken oviduct, perivitelline membranes, egg white and in extraembryonic annexes: a potential role in embryo development? Estienne A., Barbe A., Brossaud A., Rame C., Guyot N., Réhault-Godbert S., Froment P., Dupont J.	
	Nutrient utilization of chicken embryos in a historical perspective Molenaar R., van der Wagt I., Malcolm M.A., de Jong I.C., van den Brand H.	
12:10-13:45	Lunch	
13:45-15:05	Session 2: Breeder management and multigenerational impacts	
Chairpersons: A. Nangsuay	Impact of a Grape Seed Extract supplementation and a long storage period on egg quality, hatchability and post-hatching performance in broiler breeder hens Barbe A., Mellouk N., Rame C., Grandhaye J., Petit A., Chahnamian M., Rat C., Delaveau J., Froment P., Dupont J.	
& M.J. Duclos	Long-term effects of enrichment of hatching eggs with creatine on progeny Reicher N., Epstein T., Gravitz D., Rademacher-Heilshorn M., Braun U., Uni Z.	
	Effect of vitamin D source on embryo and early chicken development Réhault-Godbert S., Narcy A., Christophe P., Duclos M.J., Godet E., Bernardet N., Même N., Bordeau T., Gigaud V., Thoby JM., Folegatti E., Litta G., Berri C.	
	Impact of chemerin on sperm function and embryo development in broiler breeder chicken Estienne A., Bourdon G., Grandhaye J., Caldas-Silveiras E., Rame C., Barbe A., Chahnamian M., Ganier P., Froment P., Dupont J.	
15:05-15:35	Poster short oral presentations (1)	
15:35-16:05	Coffee break - With the support of: Hatchtech	
16:05-17:55	Session 3: Egg storage, preincubation conditions and incubation of commercial poultry	
Chairpersons:	Effect of egg cooling rate after oviposition and SPIDES on embryonic development, and hatchability of long stored older flock eggs	
M. Boerjan	Özlü S., Uçar A., Erkuş T., Yasun S., Nicholson A.D., Elibol O.	
& M. Bakst	Heat treatments during prolonged storage of eggs from young and old breeders Guinebretière M., Puterflam J.	
	Incubation temperature affects bursa of Fabricius histology of broiler chicks at hatch Wijnen J., Roovert-Reijrink I., van der Pol C., Molenaar R., van den Brand H.	
	Keynote lecture: Evolution of incubation conditions for commercial poultry over the last 10 years and trends for the future <u>French N.</u>	

18:00 Special event and welcome cocktail - With the support of: Aviagen and WPSA France

Thursday August 29 th		
9:00-10:30	Session 4: Egg quality, embryonic development and chick quality (1)	
Chairpersons:	Keynote lecture: Evolution of innate immunity components during incubation of the avian egg Réhault-Godbert S. , Da Silva M., Guyot N., Gautron J., Guabiraba R., Hincke M.	
Z. Uni & H. van den Brand	Effect of female age and genotype on eggshell quality in ostrich females Brand Z., Cloete S.	
	Proteomic study of inner and outer hen egg vitelline membranes: insights into the biological functions of vitelline membrane layers Bregeon M., Bernay B., Labas V., Chessé M., Zatylny-Gaudin C., Réhault-Godbert S., Guyot N.	
10:30-11:00	Coffee break - With the support of: Petersime	
11:00-12:00	Session 4: Egg quality, embryonic development and chick quality (2)	
Chairpersons:	Yolk Sac Tissue development during incubation period Dayan J., Reicher N., Melkman Z.T., Uni Z.	
Y. Nys &	Model-based monitoring of chicken embryo status during incubation Verlinden S., Tambuyzer T., Romanini E., Youssef A., Norton T.	
N. French	Effect of egg weight loss and hatch time on chick yield and first week post-hatch performance Özlü S., Uçar A., Banwell R., Romanini C.E.B., Elibol O.	
12:00-12:30	Poster short oral presentations (2)	
12:30-14:05	Lunch	
14:05-15:35	Session 5: Epigenetics and long-term effects of perinatal environment and early life experience (1)	
Chairpersons: V. Coustham & J.M. George	Keynote lecture: <i>Transgenerational epigenetic inheritance in birds</i> Guerrero-Bosagna C.	
	Early-life epigenetic changes along the corticotropin-releasing hormone (CRH) gene influence resilience or vulnerability to heat stress later in life Meiri N., Kisliouk T., Cramer T., Rosenberg T., Benun O.	
	Long-lasting effects of perinatal temperature manipulations on hypothalamic mechanisms are age and sex-specific Tzschentke B.	
15:35-17:00	Coffee break and poster session	
17:00-17:40	Session 5: Epigenetics and long-term effects of perinatal environment and early life experience (2)	
Chairpersons:	Early experience affects zebra finch adult thermoregulation in the heat Mariette M., Pessato A., McKechnie A., Buchanan K.	
A. Collin & T. Porter	Evidence for epigenetic reprogramming in response to acoustic signals in zebra finch eggs George J.M., Clayton D.F., Frank M.S.B., Mariette M.M., Buchanan K.L.	
19:30	Workshop Dinner - With the support of: Jamesway	

Friday August 30 th		
9:00-10:00	Session 5: Epigenetics and long-term effects of perinatal environment and early life experience (3)	
Chairpersons: B. Tzschentke & C. Guerrero- Bosagna	Early rearing conditions in chicken: effects on cognition and stress response Nordquist R., Riber A.B., Goerlich-Jansson V.	
	Effect of chick holding temperature and provision of a hatchling supplement on body temperature, blood glucose, residual yolk sac utilization and livability Kuntze Ferreira A.D.C., Nicholson D.	
	Effect of feed and water deprivation during transport on post-hatch performance of early fed chicks van Roovert-Reijrink I., van der Pol C., Wijnen J., Hijink T.	
10:00-10:35	Coffee break	
10:35-11:15	Session 5: Epigenetics and long-term effects of perinatal environment and early life experience (4)	
Chairpersons: M. Boerjan	Long-lasting metabolomic fecal signatures of negative postnatal events in chicks Beauclercq S., Lefèvre A., Montigny F., Collin A., Tesseraud S., Leterrier C., Emond P., Guilloteau L.A.	
A. Collin	The effect of various eggshell temperature patterns on hatchability, chick quality, and post hatch performance van der Pol C., van Roovert-Reijrink I., Wijnen J., Hijink T.	
11:15-11:25	Aviagen Nick French Prize for the best oral communication from a Young Scientist	
11:25-12:00	General Discussion	
12:00	Buffet lunch	



Beautiful, vibrant and lively, Tours is a pretty stopping point on the route of the Loire Valley Châteaux. Wander round its historic quarters with their half-timbered houses, Saint-Gatien Cathedral and the bustling Place Plumereau, as well as the Olivier Debré Contemporary Art Centre.

On sunny days, the star of the city is the River Loire! Visit Tours must include a rest break at the famous 'Tours-sur-Loire' guingette and the Tours beach extend the city limits to the banks of the river.



Save the Date



World's Poultry Congress 2020

The Symposium takes place with the support of Platinum



Bronze





Other Contributors





Nick French Aviagen Prize and Welcome Cocktail



We are grateful to:

- European Federation of WPSA
- WPSA Speaker's Bureau
- Foundation for Promoting Poultry Science for their support

