

Combined Meeting		
Incubation and Fertility Research Group (IFRG/Working Group 6)		
and of the Fundamental Physiology and Perinatal Development Group (WPSA Working Group 12)		
2017 Meeting – Hof van Wageningen www.hofvanwageningen.nl August 30th – September 1st		
Programme		
Wednesday 30th August 2017		
Presenters in bold		
09:00-1000	Welcome and Registration, Opening	
10:00-1200	Session 1: Influence of breeder on chick health and performance	
10:00-10:25	Marleen Boerjan , <i>Pas Reform, the Netherlands</i>	<i>Breeder age, fertility and chick vitality</i>
10:30-10:55	Roos Molenaar , <i>Adaptation Physiology Group, Wageningen University, Wageningen, The Netherlands</i>	<i>Effects of breeder age and oxygen concentration during incubation on embryonic heat production and development, and post-hatch chick performance</i>
11:00-11:25	Joelle Dupont , <i>INRA, UMR85 37380 Nouzilly, France</i>	<i>Adipokines, feeding levels and omega-3 fatty acids supplementation in the control of fertility, steroidogenesis, laying performance and offspring development in broiler breeders hens</i>
11:30-11:50	Namya Mellouk , <i>INRA, UMR85, Nouzilly, France</i>	<i>Adipokine expression profiles during early broiler embryo development and regulation by maternal feeding restriction and omega-3 fatty acid supplementation</i>
11:50-12:00	General discussion session 1	
12:00-12:10	Group photo	
12:30-13:30	Lunch	

13:30-17:15	Session 2: Egg storage and handling	
13:30-14:10	Aline Ferreira , Hatchery Support Team, Aviagen Inc	<i>Influence of heat treatment during egg storage on number of chicks and chick quality.</i>
14:15-14:40	Yuval Cinnamon , Agricultural Research Organization, Volcani Center, Department of Poultry and Aquaculture Science, Rishon LeTsiyon, Israel	<i>Cellular and morphological characterization of freshly laid blastoderms to study effects of storage conditions on embryonic survival and hatchability in broilers</i>
14:45-15:15	Zanell Brand , Institute for Animal Production, PO Box 351, Oudtshoorn, 6220, South Africa	<i>Hatch traits of artificially incubated ostrich eggs as affected by setting position, angle of rotation and season</i>
15:15-15:30	Coffee break	
15:30-15:55	Timea Torma , Széchenyi István University, Institute of Animal Sciences, Hungary	<i>Handling with care – controlling loss of hatching eggs and hatchability of broiler breeders due to mechanical impact</i>
16:00-16:25	Heida Nasri , INAT University, Tunisia	<i>Effects of broiler breeder age and egg storage duration on hatchability rate, chick quality and later life performance in hot climates</i>
16:30-16:45	General discussion session 2	
16:45-17:15	Poster carousel	
	A. Sözcü , Uludag University, Department of Animal Science, Gorukle, Turkey	Changes in embryo development and chick quality from four different egg size in Bronze Turkey
	M. Nechaeva , Institute of Developmental Biology RAS, Moscow, Rus	The heart rate response to moderate and severe acute hypoxia in the 4-day old chicken embryo
	M. Tesarova , Mendel University in Brno, Czech Republic	The effect of preincubation during egg storage on embryo development of young parent stock
	M. Lichovnikova , Mendel University in Brno, Czech Republic	The effect of preincubation during egg storage on hatchability in Japanese quail
	Z. Zemanová , Department of Histology and Embryology, Charles University, Prague	Development of the body wall in the chick embryo
	A. Collin , URA, INRA, Nouzilly, France	Effects of temperature variations during incubation and postnatal growth on performance, metabolism and health of meat-type chickens
	N. Couroussé , URA, INRA, Nouzilly, France	In vitro effects of triiodothyronine and insulin on the metabolism of muscle cells from chickens submitted or not to heat manipulation during embryogenesis
	M.H. Priester , HatchTech B.V., The Netherlands	Effect of feed and water treatments during a transport period (6h) on broiler chick development
18:30	Conference dinner	

Thursday 31st August 2017		
08:45-10:30	Session 3: Impact of parental effects	
08:45-09:30	Invited Young Researcher Lecture: Bence Lázár , <i>Agricultural Biotechnology Institute, NARIC, Hungary</i>	<i>Examination of the combined effect of parental thermal stress and thermal treatment of the offspring on early embryonic development and on primordial germ cells</i>
09:35-09:55	Neeraj Kumar , <i>Behavioural Biology, Groningen Institute for Evolutionary Life Sciences, University of Groningen, the Netherlands</i>	<i>Hormone-mediated maternal effects: gonadal steroid levels in freshly laid bird eggs do not represent maternal allocation</i>
10:00-10:45	Invited Keynote lecture: Prof. Ton Groothuis , <i>Behavioural Biology, Groningen Institute for Evolutionary Life Sciences, University of Groningen, NL</i>	<i>Avian yolk hormones: recent understandings of mechanisms and their function</i>
10:45-11:00	Coffee break	
11:00-12:30	Session 4: Adaptation and epigenetic alteration in birds	
11:00-11:25	Vincent Coustham , <i>INRA – UR83 Recherches Avicoles, NOUZILLY, France</i>	<i>Gene activity through epigenetic alterations in quail</i>
11:30-12:15	Invited Keynote lecture: Mylene Mariette , <i>Deakin University, Centre for Integrative Ecology, Victoria, Australia</i>	<i>Avian adaptation to heat by prenatal acoustic stimulation: from songbirds to poultry</i>
12:15-12:30	General discussion session 3 - 4	
12:30-13:30	Lunch including the "student lunch with the keynote speakers"	
13:30-17:30	Session 5: Incubation parameters and chick vitality	
13:30-14:10	Mike Wineland , <i>Hatcheryconsult LLC, USA</i>	<i>Importance of incubation conditions on proper In-Ovo vaccination</i>
14:15-14:35	Muntasar Salem , <i>National Poultry, Delmonte group, Amman, Jordan</i>	<i>How much the in ovo injection process can affect the contamination level and chick quality (case study)</i>
14:40-15:10	Shelly Druyan , <i>Agricultural Research Organization, Volcani Center, Department of Poultry and Aquaculture Science, Rishon LeTsiyon, Israel</i>	<i>Changes in oxygen levels during incubation as a new way to affect tibial dyschondroplasia incidence in broiler chicks</i>

15:15-15:30	Coffee break	
	Session 5: Incubation parameters and chick vitality continued	
15:30-15:55	Henry van den Brand , <i>Adaptation Physiology Group, Wageningen University and Research, Wageningen, the Netherlands</i>	<i>The interaction between carbon dioxide concentration and eggshell temperature during second half of incubation in broiler chickens</i>
16:00-16:25	Conny Maatjens , <i>WIMEX Agrarprodukte Import und Export GmbH, Germany</i>	<i>The effects of temperature during late incubation on first week broiler chicken development</i>
16:30-16:55	Carla van der Pol , <i>HatchTech B.V., the Netherlands</i>	<i>Affecting bone development in broiler chickens through incubation lighting schedules</i>
17:00-17:30	General discussion session 5	
Friday, 1st September 2017		
09:00-12:40	Session 6: Control and programming of energy balance	
09:00-09:40	Miriam Friedman-Einat , <i>Agricultural Research Organization, Volcani Center, Israel</i>	<i>Identification of adipokines involved in the selective breeding of broiler and layer hens provided new insights about the role of adipose tissue in chicken reproduction</i>
09:45-10:10	Barbara Tzschentke , <i>Humboldt-Universität zu Berlin, Faculty of Life Science, Institute of Biology, Germany</i>	<i>Embryonic "over"-nutrition and metabolic malprogramming in the avian primary brain area for control of energy balance, feed intake and body weight</i>
10:15-10:40	Inge van Roovert-Reijrink , <i>HatchTech B.V., the Netherlands</i>	<i>Heat production of chicks with and without access to feed and water between hatching and pulling</i>
10:45-11:00	Coffee break	
11:00-11:25	Barbara Tzschentke , <i>Humboldt-Universität zu Berlin, Faculty of Life Science, Institute of Biology, Germany</i>	<i>Impact of perinatal temperature training and feed composition during growing phase on production efficiency in males of different chicken lines</i>
11:30-11:50	Sabrina Tatge , <i>Humboldt-Universität zu Berlin, Faculty of Life Science, Department of Biology, Germany</i>	<i>NPY and metabolic hormones: programming by short-term temperature training during final embryonic development</i>
11:55-12:10	General discussion session 6	
12:10-12:30	Closing remarks, information on next IFRG (2018) and combined workshop 2019 (WG 6 and 12)	