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R. Schellander

Exhibition Coordinator M. Obauer-de Bruyker

Scientific Editor J. Dargie

**Location of the Conference:**

International Atomic Energy Agency  
Vienna International Centre (VIC)  
IAEA Board Room (C04) and  
Conference room VI (C07)  
Wagramer Strasse 5  
1400 Vienna, Austria

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**Working Language:** English

**Resolutions:** No resolutions may be submitted for consideration on any subject; no votes will be taken.

## TIMETABLE

### Sunday, 07 June 2009

16:00–19:00 Registration Checkpoint 1

### Monday, 08 June 2009

08:00 Registration Conference Desk, C04

09:00–10:00 Opening Session

10:00–10:15 Coffee break

10:15–11:15 Plenary session

11:15–12:45 Session 1 Interactions among nutrition, reproduction and genotype

12:45–14:00 Lunch Break

14:00–15:30 Session 1 (continued)

15:30–16:00 Coffee Break / Poster Viewing

16:00–17:45 Session 1 (continued)

17:45–18:45 Concluding session 1 (discussion)

18:45–20:15 Welcome reception sponsored by IAEA

### Tuesday, 09 June 2009

09:00–11:00 Session 2 Effects of nutrition, reproduction and environmental factors on animal productivity

11:00–11:30 Coffee Break / Poster Viewing

11:30–12:30 Session 2 (continued)

12:30–14:00 Lunch Break

14:00–15:30 Session 2 (continued)

15:30–16:00 Coffee Break / Poster Viewing

16:00–18:00 Session 2 (continued)

18:00–19:00 Concluding session 2 (discussion)

### Wednesday, 10 June 2009

09:00–11:00 Session 3 Transboundary, emerging and zoonotic diseases

11:00–11:30 Coffee Break / Poster Viewing

11:30–13:00 Session 3 (continued)

13:00–14:30 Lunch Break

14:30–16:00 Session 3 (continued)

16:00–16:30 Coffee Break / Poster Viewing

16:30–18:55 Session 3 (continued)

18:55–19:55 Concluding session 3 (discussion)

### Thursday, 11 June 2009

09:00–11:00 Session 4 One health

11:00–11:30 Coffee Break / Poster Viewing

11:30–12:30 Session 4 (continued)

12:30–13:00 Concluding session 4 (discussion)

13:00–14:30 Lunch Break

14:30–16:00 Session 5 Achieving food safety and security in the 21<sup>st</sup> century

16:00–16:30 Coffee Break / Poster Viewing

16:30–17:15 Session 5 (continued)

17:15–17:45 Concluding session 5 (discussion)

17:45–18:00 Closing ceremony and vote of thanks

**All posters will be displayed in parallel on the ground floor between buildings A, B and C throughout the Symposium.**

**Commercial exhibits will be shown in the lounge in C04 from Monday to Thursday, 08 to 11 June 2009.**

**SUNDAY, 07 JUNE 2009**

**16:00–19:00**      **Registration and distribution of  
Conference material**

**MONDAY, 08 JUNE 2009**

**08:00**              **Registration and distribution of  
Conference material**

**Chair**              **G. Viljoen**              IAEA  
**Rapporteur**      **M. Garcia Podesta**    IAEA

**09:00–10:00**      **OPENING REMARKS**

**W. Burkart**

**M. Traore**

**D. Nabarro**

**G. Brem**

**Q. Liang**

**10:00–10:15**      **Coffee break**

Deputy Director General  
Head of the Department of  
Nuclear Sciences and Applications, IAEA

Assistant Director General of the Department of Agriculture and  
Consumer Protection, FAO

Assistant Secretary General, Coordination on Avian & Pandemic  
Influenza and the Global Food Crisis United Nations (UNSIC)

Chair of Animal Breeding Genetics, Veterinary University Vienna,  
Austria

Director of the Joint FAO/IAEA Division of Nuclear Techniques in  
Food and Agriculture, IAEA

<b>10:15–11:15 PLENARY SESSION</b>				
<b>Chair</b>		<b>D. Masters</b>	Australia	
<b>Rapporteur</b>		<b>M. Garcia Podesta</b>	IAEA	
<i>Time</i>	<i>No. of Paper IAEA–CN–174</i>	<i>Name</i>	<i>Designating Member State/Organiza tion</i>	<i>Title of Paper</i>
10:15-10:45	PL/145	<b>W. Richards</b>	UK	Historic role of nuclear techniques in solving problems of animal production & health
10:45-11.15	PL/26	<b>R.A. Leng</b>	Australia	Decline in available world resources – implications for livestock production systems
<b>11:15–12:45 SESSION 1: Interactions among nutrition, reproduction and genotype</b>				
<i>Time</i>	<i>No. of Paper IAEA–CN–174</i>	<i>Name</i>	<i>Designating Member State/ Organization</i>	<i>Title of Paper</i>
11:15–11:45	K/79	<b>M.D. Hanigan</b>	USA	Animal nutrition in a systems context—the way forward
11:45–12:15	K/107	<b>J.L.M.R. Leroy</b>	Belgium	High milk production in dairy cows: a danger or a challenge for metabolism, fertility and sustainability
12:15–12:45	K/234	<b>J. Smitz</b>	Belgium	Improving reproductive success and fertility preservation by ovarian treatments in different species
<b>12:45–14:00</b>	Lunch Break			

<b>14:00–18:45</b>		<b>SESSION 1</b> <b>Interactions among nutrition, reproduction and genotype</b>  (Nutrition)		
<b>Chair</b>	<b>W. Thatcher</b>	USA		
<b>Rapporteur</b>	<b>M. Garcia Podesta</b>	IAEA		
<i>Time</i>	<i>No. of Paper IAEA–CN–174</i>	<i>Name</i>	<i>Designating Member State/ Organization</i>	<i>Title of Paper</i>
14:00–14:15	O/194	<b>K.H. Myint</b>	Myanmar	Animal nutrition and optimized utilization of locally available resources
14:15–14:30	O/152	<b>F.M. Gebremariam</b>	Eritrea	Effect of supplementing urea-treated sorghum stover with sesame cake or fishmeal on the performance of cattle
14:30–14:45	O/131	<b>P. Shawrang</b>	Iran, Isl. Rep. of	Effects of gamma Irradiation on ruminal protein degradation and intestinal digestibility of cottonseed meal
14:45–15:00	O/188	<b>A. Purnomoadi</b>	Indonesia	The effect of supplementation level of concentrate feeding (25 vs. 75%) on rice straw treated with urine on Ongole crossbred cattle productivity and methane emission
15:00–15:15	O/31	<b>M. Wanapat</b>	Thailand	Cassava based diets for sustainable ruminant production
15:15–15:30	O/71	<b>D. Indetie</b>	Kenya	Effects of nutritional supplementation and genotype on milk production and fertility of lactating dairy cattle under tropical conditions
<b>15:30–16:00</b>		Coffee Break / Poster Viewing		
		<b>(Reproduction x Genotype)</b>		
16:00–16:15	O/118	<b>P. Silva</b>	Sri Lanka	Indigenous cattle in Sri Lanka: production systems and genetic diversity
16:15–16:30	O/125	<b>A.M. Kerestes</b>	Hungary	Insulin resistance in different forms of hyperketonaemia and in cows affected by puerperal metritis
16:30–16:45	O/155	<b>P.H. Bayemi</b>	Cameroon	A new method for improving the dairy production sector in a developing country: the case of Cameroon
16:45–17:00	O/203	<b>A.K. Thiruvenkadan</b>	India	Milk production and reproduction performance of Murrah buffaloes of Tamil Nadu, India
17:00–17:15	O/53	<b>A. Tegegne</b>	ILRI	Matching genotype with the environment using an indigenous cattle breed: introduction of Borana cattle from southern Ethiopia into the lowlands of North-Western Ethiopia
17:15–17:30	O/105	<b>T.S. Wollen</b>	USA	Livestock for rebuilding communities, enhancing livelihoods and protecting the environment
17:30–17:45	O/252	<b>J. Juhasz</b>	UAE	Milk production potential, quality of raw milk and reproductive efficiency of dromedary camels ( <i>Camelus dromedarius</i> )
<b>17:45–18:45</b>	<b>Concluding session 1 discussion</b>			
<b>18:45–20:15</b>	Welcome reception			

Posters of Session 1			
No. of Poster IAEA-CN-174	Name	Designating Member State/Organization	Title of Poster
P/4	H. Fazaeli	Iran, Isl. Rep. of	Effect of selenium vitamin E supplement on the performance of sheep in Central Iran
P/5	H. Fazaeli	Iran, Isl. Rep. of	Supplement feeding in late gestation to improve the performance of ewes in a dry area
P/7	T. Seresinhe	Sri Lanka	Role of cattle and local feed resources on the sustainability of a coconut-cattle integrated system
P/12	R.M. Mauricio	Brazil	The effect of polyethylene glycol and wood ash on de-tannification of sorghum evaluated by an <i>in vitro</i> gas production profile and organic matter degradation
P/17	F.M. Abou-Donia	Egypt	Impact of using sodium or calcium salts of fatty acids as a source of energy in late pregnant buffalo dams
P/22	P.S. Brar	India	Enhancing off-season fertility in dairy buffaloes through monensin supplementation
P/27	V.T.K. Thanh	Vietnam	The physiological mechanism of low purine derivative excretion in urine of buffaloes
P/33	A. Akinfemi	Nigeria	Changes in the chemical composition and <i>in vitro</i> gas production of maize stover degraded with two edible mushrooms: <i>Pleurotus sajor caju</i> and <i>Pleurotus pulmonarius</i>
P/34	M.O. Faruque	Bangladesh	Productive and reproductive efficiency of different genotypes of goat in Bangladesh influenced by nutritional status
P/37	E. Corea	El Salvador	The correlation between milk and blood urea nitrogen in high- and low-yielding dairy cows
P/41	G.T. Kassie	ILRI	Implicit prices of traits of indigenous cattle – implications for sustainable livestock production
P/44	K. Boodhoo	Mauritius	Sustainable milk production in Mauritius : new strategic directions to revamp the dairy sector
P/45	M. Dallorso	Argentina	Radioimmunoassay (RIA), radioreceptorassay (RRA) and atomic absorption spectroscopy (AAS) applied to studies on animal nutrition and health
P/48	P.I. Rekwot	Nigeria	Effects of nutritional supplementation and exposure to bulls on resumption of post-partum ovarian activity in Bunaji ( <i>Bos indicus</i> ) cattle
P/52	J.F. Nunez	Peru	Aflatoxins as a cause of high mortality rate in farmed trout in a Peruvian rural town
P/58	C. Gomez	Peru	Methane emissions from enteric fermentation of representative dairies in Peru: nutritional strategies to reduce the emissions
P/76	G.U. Ebuh	Nigeria	Effects of breed, sex and geo-ecological zone on the haematological parameters of Nigerian goats

<i>No. of Poster IAEA-CN-174</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
P/78	<b>K. Boonyanuwat</b>	Thailand	Improvement of beef cattle genetics provides increasing sustainability of beef cattle production and protein consumption in Thailand
P/87	<b>T. Chatchawan</b>	Thailand	Thai indigenous cattle production provides a sustainable alternative for the benefit of small scale farmers, healthy food and the environment
P/94	<b>K.N. Joblin</b>	New Zealand	Ruminal fungi for increasing forage intake and animal productivity
P/97	<b>T. Wuliji</b>	USA	Merino breeding programme improves wool production in the western US range sheep flocks
P/104	<b>M.A.A. El-Barody</b>	Egypt	Improving milk production, collection and processing systems to increase smallholder access to commercial market opportunities in Egypt
P/110	<b>E. Galukande</b>	Austria	Breed diversification In South Western Uganda: characterization of a new cattle farming system
P/115	<b>S. Chanpongsang</b>	Thailand	Effect of evaporative cooling system on productive and reproductive performances of crossbred Holstein- Friesian cattle in tropical conditions
P/120	<b>M. Mellado</b>	Mexico	Effect of dietary energy intake and somatotrophin administration after weaning on growth rate and semen characteristics of Granadina goat bucks
P/121	<b>A. Jayanegara</b>	Indonesia	Methane reduction properties of tannin containing plants, simple phenols and purified tannins in <i>in vitro</i> rumen fermentation system
P/124	<b>V. Faigl</b>	Hungary	Seasonality of reproduction and MT1 receptor gene polymorphism in Awassi sheep
P/135	<b>P. Silva</b>	Sri Lanka	Production systems and characteristics of indigenous small ruminants in Sri Lanka
P/138	<b>R. Dixon</b>	Australia	Application of near infrared spectroscopy to improve animal production in developing countries
P/143	<b>Z. Wuletaw</b>	Austria	The genetics of adaptation of cattle to high altitude environment: the case of brisket disease in North Western Ethiopia
P/144	<b>F.A.S. Dairo</b>	Nigeria	Fermented mixture of cassava peel and caged layer manure as energy source in broiler starter diet
P/153	<b>H.S. Teklehaimanot</b>	Eritrea	Evaluation of spineless cactus ( <i>Opuntia ficus-indicus</i> ) as an alternative animal feed and water resource during dry season in Eritrea
P/167	<b>R. Suluku</b>	Sierra Leone	Strategies and efforts to restore small ruminants populations in Sierra Leone: a case study of South Eastern Sierra Leone
P/178	<b>Y. Bozkurt</b>	Turkey	Remote sensing and GIS applications to determine the potential grassland areas to be utilised by beef cattle in the highlands of Eastern Turkey

<i>No. of Poster IAEA-CN-174</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
P/191	<b>M. Wanapat</b>	Thailand	Ruminal ecology of swamp buffalo as influenced by dietary sources
P/204	<b>A.K. Thiruvenkadan</b>	India	Lifetime performance of imported and farm-bred Jersey cows in hot and humid climate of Tamil Nadu, India
P/233	<b>M. Cisse</b>	Senegal	Effects of the level of feeding on change in body reserves, calves growth and post-partum ovarian activity in the zebu Gobra
P/242	<b>J.C. Ordoñez</b>	Honduras	Effects of a short energetic supplementation during the transition period over the ovarian postpartum reactivation in cows
P/251	<b>K.D.S. Kanwal</b>	Malaysia	Ultrastructural changes induced during transportation of bovine oocytes
P/253	<b>X. Lang</b>	China	Diversity for GDF9 and FecB in three-way crossbred sheep and correlation with litter size
P/254	<b>X. Guo</b>	China	Tandem inhibin gene immunization to induce sheep twinning
P/255	<b>J.R. Espinoza</b>	Peru	Genetic diversity in alpaca ( <i>Vicuna pacos</i> ) populations using 10 microsatellite markers
P/256	<b>G. Cao</b>	China	<i>In vitro</i> proliferation of spermatogonia and preparation of rams for transplantaton
P/257	<b>B. Xiong</b>	China	A solution on identification and rearing files in smallholder pig farming
P/259	<b>P. Petrus</b>	Namibia	Analysis and constraints of goat production in Northern Namibia: a case study in Onesi and Ruacana constituency
P/260	<b>S. Maciel</b>	Mozambique	Environmental descriptors influencing performance of the Nguni ecotypes
P/261	<b>A. Teneva</b>	Bulgaria	Molecular characterization of Bulgarian livestock genetic resources and their optimized utilization for animal production
P/262	<b>X. Gao</b>	China	Gene expression profiling of differentially expressed genes in bull testicle between different scrotal circumference using DDRT
P/263	<b>Z.K. Zhou</b>	China	Isolation of differentially expressed genes between Steer and Bull Longissimus by SSH and Q-PCR Strategy



**TUESDAY, 09 JUNE 2009**

**09:00–12:30**      **SESSION 2:**  
**Effects of nutrition, reproduction,**  
**genetics, and environmental factors**  
**on animal productivity**

**Chair**                **M. Hanigan**            USA  
**Rapporteur**        **M. Garcia Podesta**   IAEA

<i>Time</i>	<i>No. of Paper IAEA-CN-174</i>	<i>Name</i>	<i>Designating Member State/ Organization</i>	<i>Title of Paper</i>
09:00–09:30	K/96	<b>D.G. Masters</b>	Australia	Managing livestock in degrading environments
09:30–10:00	K/70	<b>J. Hodges</b>	Austria	Foundations, fallacies and assumptions of science for livestock development
10:00–10:30	K/109	<b>S. Joost</b>	Switzerland	Early stirrings of landscape genomics: Awaiting next-next generation sequencing before take-off
10:30–11:00	K/179	<b>W.W. Thatcher</b>	USA	Interactions among nutrition, heat stress, and reproduction in tropical cattle
<b>11:00–11:30</b>	Coffee Break / Poster Viewing			
		<b>(Nutrition / Reproduction/Genetics)</b>		
11:30–11:45	O/217	<b>R.J. Long</b>	China	Effect of various levels of coconut oil on methane emission from yaks grazing on winter pasture of the Tibetan Plateau
11:45–12:00	O/39	<b>G. Flachowsky</b>	Germany	Feeds from genetically modified plants (GMP) – nutritional and safety assessment
12:00:12:15	O/172	<b>A. Traore</b>	Burkina Faso	Multivariate characterization morphological traits in Burkina Faso sheep
12:15–12:30	O/35	<b>M. Shamsuddin</b>	Bangladesh	Community-based productivity veterinary service for small holder dairy farmers in Bangladesh
<b>12:30–14:00</b>	Lunch Break			

<b>14:00–19:00</b>		<b>SESSION 2: Effects of nutrition, reproduction, genetics, and environmental factors on animal productivity</b>		
<b>Chair Rapporteur</b>		<b>(Reproduction) W. Richards United Kingdom M. Garcia Podesta IAEA</b>		
<i>Time</i>	<i>No. of Paper IAEA–CN–174</i>	<i>Name</i>	<i>Designating Member State/ Organization</i>	<i>Title of Paper</i>
14:00–14:15	O/102	<b>L. Echevarria</b>	Peru	Progesterone levels in the ovarian uterine and systematic venous blood in alpacas with embryo mortality
14:15–14:30	O/90	<b>C.S. Galina</b>	Mexico	Is embryo transfer a useful technique for small community farmers?
14:30–14:45	O/50	<b>G.D.R.K. Perera</b>	Sri Lanka	Establishment of multiple ovulation and embryo transfer (MOET) technology for goats in Sri Lanka
14:45–15:00	O/206	<b>B. Sayre</b>	USA	Comparative genomics for prediction of the relative location of ESTs in the goat genome
15:00–15:15	O/72	<b>N. Ferreira</b>	Paraguay	Reproductive performance of lactating dairy cows treated with intravaginal progesterone in a timed artificial insemination protocol
15:15–15:30	O/28	<b>V.T.K. Thanh</b>	Vietnam	Effect of temperature and humidity on heat stress responses in Vietnamese yellow cattle
<b>15:30–16:00</b>		Coffee Break / Poster Viewing		
		<b>(Nutrition)</b>		
16:00–16:15	O/21	<b>D.N. Kamra</b>	India	Methane emission by livestock in India and mitigation strategies
16:15–16:30	O/89	<b>J.X. Liu</b>	China	Effect of ethyl linolenate on methanogenesis and rumen fermentation in sheep fed diets with different forage to concentrate ratios
16:30–16:45	O/112	<b>D.C. Delgado</b>	Cuba	Potential of tropical plants to exerting defaunating effects on the rumen and to reduce methane production
16:45–17:00	O/250	<b>A.T. Adesogan</b>	USA	Effect of replacing dietary soybean meal with tropical legumes on the performance of lambs
17:00–17:15	O/80+81	<b>A.L. Abdalla</b>	Brazil	Effect of essential oil from <i>Cordia verbeancea</i> on the fermentation of a high concentrate diet by using the <i>in vitro</i> gas production technique
17:15–17:30	O/148	<b>H. Ben Salem</b>	Tunisia	Cost-effective and environmentally friendly options to improve livestock performance in dry areas
17:30–18:00	O/146	<b>A.O.K. Adesehinwa</b>	Nigeria	Use of sun-dried, on-farm generated poultry litter as a feed resource for pigs in a poultry-pig farm enterprise: implications on chemical composition of feed and blood chemistry
<b>18:00–19:00</b>		Concluding session 2 discussion		

Posters of Session 2			
No. of Poster IAEA-CN-174	Name	Designating Member State/Organization	Title of Poster
P/9	<b>J.M. Akil</b>	Tanzania, U. R. of	Use of edible fishery by-products as sources of nutrients for fish and livestock in Zanzibar, Tanzania
P/14	<b>F.M. Abo-Donia</b>	Egypt	Effect of added <i>Punica granatum</i> peel fruits and <i>Nigella sativa</i> seeds on immunology and performance of suckling buffalo calves
P/15	<b>C.S. McSweeney</b>	Australia	Identity and functional analysis of bacterial populations involved in reductive acetogenesis
P/16	<b>M. Zarkawi</b>	Syrian Arab. Rep.	Use of radioimmunoassay to assess the reproductive performance of Syrian Awassi sheep as a tool for sustainable Improvement
P/18	<b>H. Boehnel</b>	Germany	Selection and production of bacteria which detoxify mimosine: <i>Leucaena</i> leaves may be used as ruminant feed
P/19	<b>J. Donkor</b>	Ghana	Structure and sequence variation of mink interleukin-6 gene
P/20	<b>A. Okine</b>	Ghana	Arresting effluent production in silages from high moisture agro-industrial by-products: the role of potential water holding capacity' and implications for silage effluent control strategies
P/29	<b>F.Y. Obese</b>	Ghana	Reproductive performance following artificial insemination in Sanga and Friesian x Sanga cows in the Accra Plains of Ghana
P/30	<b>A.N. Naqvi</b>	Pakistan	A study of growth traits in goat breeds of northern areas of Pakistan
P/38	<b>L. Ouragh</b>	Morocco	Genetic polymorphism at $\alpha_1$ -casein locus in Moroccan goat breeds
P/51	<b>A. Akhlaghi</b>	Iran, Isl. Rep. of	Effect of transient prepubertal hypothyroidism on serum testosterone levels and seminal characteristics of Iranian indigenous chickens
P/54	<b>S. Nakavisut</b>	Thailand	Genetic relationships of reproduction traits between primiparous and later parities in swine
P/56	<b>L.S. Zhao</b>	China	Molecular characterization of 10 toll-like receptor genes in goat
P/59	<b>Sriyanto</b>	Malaysia	Non-invasive monitoring of reproduction in male lesser mouse deer ( <i>Tragulus javanicus</i> ):analyzing hormone testosterone and its metabolites in faeces using HPLC and enzyme immunoassay
P/61	<b>S. Tongsir</b>	Thailand	Increase of numbers of egg clutch and reduction of mortality rate of Thai native chicks
P/63	<b>E.H. Traore</b>	Senegal	Preliminary studies for use of <i>Harwickia binata</i> fodder in Senegal: bromatological analysis and feeding trials on dairy goats Murciano-Granadina
P/68	<b>V. Pattarajinda</b>	Thailand	Effects of fermented cassava pulp on dry matter intake, feed digestion, conception rate and performances of dairy heifers
P/77	<b>G.U. Ebuh</b>	Nigeria	Identification of x-chromatin and determination of its incidence in Nigerian goat breeds
P/85	<b>S.M.A. Sallam</b>	Egypt	Methane production by sheep consuming diets with different levels of eucalyptus essential oil
P/86	<b>M. Hammadi</b>	Tunisia	Effects of milking interval on secretion and composition of milk in three dairy goat breeds
P/98	<b>L.T. Thuy</b>	Vietnam	Phenotypic characterization of goat breeds in Vietnam

No. of Poster IAEA-CN-174	Name	Designating Member State/Organization	Title of Poster
P/99	<b>L.T. Thuy</b>	Vietnam	Cryopreservation of farm animal genetic materials in Vietnam
P/111	<b>L. Fotea</b>	Romania	The effect of savoury oil ( <i>Satureja hortensis</i> L.) on broiler performance
P/116	<b>S. Chanpongsang</b>	Thailand	Management tools for heat stress reduction in crossbred dairy cows in a tropical region
P/127	<b>L. Savon</b>	Cuba	Tropical forage meals: an alternative for sustainable monogastric species production
P/129	<b>F. Ngoula</b>	Cameroon	Effects of a type of food supplement on the reproductive and growth performances of cane rats ( <i>Tryonomys swinderianus</i> )
P/130	<b>M. Shehab-El-Deen</b>	Belgium	Addition of insulin-like growth factor-I during <i>in vitro</i> maturation of bovine oocytes under heat stress and the consequences on cleavage rate and apoptotic cell ratio
P/132	<b>S.K. Shafaei</b>	Iran, Isl. Rep. of	Effects of <sup>60</sup> Co gamma-radiation on fowl sperm for increase of fertility
P/133	<b>G. Schlamberger</b>	Germany	Zero days dry – an option for high-yielding dairy cows?
P/140	<b>B.S. Malami</b>	Nigeria	Assessing the effect of farmers' supplementation strategy on feed intake and live weight of goats grazing natural range and crop fields of Zamfara Reserve in semi-arid Nigeria
P/141	<b>B.S. Malami</b>	Nigeria	Trends in feed supply of three important browse species in a semi-arid environment of Nigeria
P/147	<b>H. Salinas</b>	Mexico	General aspects of participative research and its role in small ruminant research in arid regions of Mexico
P/159	<b>G.V. Hoha</b>	Romania	Research on the production performances achieved by pig bloodlines used within a swine intensive husbandry unit in the NE of Romania
P/162	<b>J.L. Galindo</b>	Cuba	Effect of a multiple mixture of herbaceous leguminous and <i>Leucaena leucocephala</i> in the population of protozoa and other ecological groups of rumen in yearling cattle crossbreeds Holstein x Cebú
P/163	<b>R.M. Radu Rusu</b>	Romania	Chemical and nutritional features of the meat issued from two chicken broiler genotypes
P/165	<b>C.G. Radu Rusu</b>	Romania	Effects of prebiotic and mycotoxin binder feed supplementation on the quality of the eggs produced by the hens in the end of their laying period
P/170	<b>A. Chermiti</b>	Tunisia	Marine plants: a new alternative feed resource for livestock
P/173	<b>A. Traore</b>	Burkina Faso	Reproductive wastage through slaughtering of pregnant ewe and goat in Ouagadougou, Burkina Faso
P/174	<b>F.M. Gebremariam</b>	Eritrea	Effect of urea-treated sorghum stopover supplemented with local protein sources on the performance of sheep
P/181	<b>J.R. Espinoza</b>	Peru	ESTs from skin and PBMC cDNA subtractive library of Alpaca
P/183	<b>J.R. Espinoza</b>	Peru	Parentage testing and molecular sexing in alpacas ( <i>Vicuna pacos</i> ) using microsatellite markers and ZFY/ZFX genes
P/190	<b>P. Kongmun</b>	Thailand	Effect of phytochemical and coconut oil supplementation on rumen ecology and methane production in ruminants
P/199	<b>M. Curnow</b>	Australia	Producing consumer acceptable wool – a challenge for Australian sheep farmers facing animal welfare boycotts

<i>No. of Poster IAEA-CN-174</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
P/201	<b>S. Kanu</b>	Sierra Leone	Contribution of livestock restocking to the resettlement of displaced rural farming communities in post-conflict Sierra Leone
P/202	<b>A.A. Fadlemoula</b>	Sudan	The effect of management practices on prevalence of mastitis in large scale dairy farms
P/207	<b>K. Kim</b>	Korea, Rep. of	A high-resolution of porcine radiation hybrid panel helps to develop useful SNP markers with bioinformatics and re-sequencing methods
P/212	<b>A. Tewoldebrhan</b>	Eritrea	The effect of feeding ensilages of poultry litter with left over bread on body weight of Barka cattle
P/213	<b>A. Avelar</b>	Brazil	Assessing inorganic contaminants in alternative phosphorus sources used in animal nutrition: a particular feature for the agricultural policies
P/216	<b>S.O. Juchem</b>	USA	Depletion of selenium in whole blood, liver and muscle tissue of beef heifers that had previously grazed forages containing high amounts of selenium
P/220	<b>S.O. Juchem</b>	USA	Performance and selenium incorporation in beef heifers grazing pastures growing in saline soils containing high levels of trace minerals
P/221	<b>J.M. Panandam</b>	Malaysia	Birth weight and weaning weight of Boer kids under an intensive management system
P/229	<b>S. Katawatin</b>	Thailand	Seasonal variation in protein profiles and hsp70 of Holstein crossbred bull semen
P/230	<b>S. Katawatin</b>	Thailand	Nucleotide sequence and polymorphism in 5'flanking region of HSP70-2 gene in Holstein Friesian bulls
P/231	<b>M. Elimam</b>	Sudan	Evaluation of some natural pastures in Gezira State, Sudan
P/232	<b>F. Pastor</b>	Mexico	Goat raising systems in Mexico's la Laguna region and how they cope with the challenge of the economic crisis
P/237	<b>V. Sharma</b>	India	Non conventional livestock feeds of arid zones of India: potential need to tap effectively and efficiently
P/238	<b>M.N. Riaz</b>	Pakistan	Molecular study of bovine growth hormone gene in Nili-Ravi buffaloes of Pakistan
P/245	<b>C. Leonte</b>	Romania	Mistake of combined nutriment fabrication destined for poultry feeding
P/247	<b>H.M.A. Gafaar</b>	Egypt	Utilization of zinc methionine supplementation in Friesian cows: somatic cell count in milk and mastitis
P/249	<b>A.T. Adesogan</b>	USA	Using bacterial inoculants to control the growth of <i>E. coli</i> O157:H7 in maize silages under anaerobic and aerobic conditions
P/258	<b>N.R. Sarker</b>	Bangladesh	Effect of dietary protein sources of on blood or milk urea nitrogen of native cows
P/265	<b>G. Ayelet</b>	Ethiopia	Gut Microbial diversity studies on Ethiopian Blackhead Ogaden Sheep with particular emphasis on rumen methanogenic archaea and total bacteria
P/280	<b>B. Mwenya</b>	Zambia	Phenotypic characterization of the Barotse and Tonga cattle of Zambia

<b>WEDNESDAY, 10 JUNE 2009</b>				
<b>09:00–13:00</b>	<b>SESSION 3: Transboundary, emerging and zoonotic diseases</b>			
<b>Chair</b>	<b>M. Jeggo</b>	Australia		
<b>Rapporteur</b>	<b>A. Luckins</b>	IAEA		
<i>Time</i>	<i>No. of Paper IAEA-CN-174</i>	<i>Name</i>	<i>Designating Member State/ Organization</i>	<i>Title of Paper</i>
09:00–09:30	K/186	<b>S. Mas Coma</b>	Spain	The importance of emerging and re-emerging zoonotic diseases: recognition, monitoring and control
09:30–10:00	K/246	<b>S. Belak</b>	Sweden	Early, complex and rapid diagnostic technologies: a view from two Collaborating Centres of the World Organization for Animal Health (OIE)
10:00–10:30	K/200	<b>G. De Leo</b>	Italy	Climatic changes, seasonality and the dynamics of infectious diseases in animals
10:30–11:00	K/269+273	<b>J. Pinto</b>	FAO	Overview of EMPRES and GLEWS
<b>11:00–11:30</b>	Coffee Break / Poster Viewing			
11:30–12:00	K/228	<b>E. Erlacher-Vindel</b>	OIE	OIE activities for the global improvement of animal disease detection and control
12:00–12:15	K/272	<b>S. Newman</b>	FAO	Wildlife-livestock interface work being done
12:15–12:30	O/23	<b>E.H. Chowdhury</b>	Bangladesh	Epidemiology, pathology and sensitive tools for the diagnosis of PPR in Bangladesh
12:30:12:45	O/211	<b>G. Li</b>	China	Rapid detection of Peste des Petits ruminants virus using a reverse transcription loop-mediated isothermal amplification (RT-LAMP)
12:45:13:00	K/270	<b>F. Njeumi</b>	FAO	PPR dynamics and progressive control
<b>13:00–14:30</b>	Lunch Break			

<b>14:30–19:55</b>		<b>SESSION 3: Transboundary, emerging and zoonotic diseases</b>		
<b>Chair</b>	<b>E.K. Baipoledi</b>	Botswana		
<b>Rapporteur</b>	<b>A. Luckins</b>	IAEA		
<i>Time</i>	<i>No. of Paper IAEA–CN–174</i>	<i>Name</i>	<i>Designating Member State/ Organization</i>	<i>Title of Paper</i>
14:30–14:45	O/25	<b>J.W. Magona</b>	Uganda	Surveillance of Rift Valley Fever in cattle, goats and sheep in Uganda
14:45–15:00	O/223	<b>J. Paweska</b>	South Africa	Serodiagnosis of Rift Valley Fever in African wildlife using a recombinant nucleocapsid-based indirect Elisa
15:00–15:15	O/40	<b>W. Wilson</b>	USA	Molecular detection technologies for arboviruses Including Bluetongue and Rift Valley Fever Viruses
15:15–15:30	O/244	<b>M. M. Lo</b>	Germany	Variability of the IFN- $\beta$ repressing activity of NSs proteins from 26 wt RVFV isolates and expression of their NSs in Vero E6 cell
15:30–15:45	K/268	<b>S. De la Rocque</b>	FAO	RVF ecology and early warning
15:45–16:00	O/151	<b>F. Fasina</b>	Nigeria	Field surveillance and laboratory diagnosis of African Swine Fever in Nigeria
<b>16:00–16:30</b>	Coffee Break / Poster Viewing			
16:30–16:45	K/271	<b>K. Sumption</b>	FAO/ EU	FMD progressive control pathway
16:45–17:00	O/266	<b>C. Volpe</b>	UK	On-site detection of foot-and-mouth disease virus using a portable, automated sample preparation and PCR system
17:00–17:15	O/241	<b>C. E. Lamien</b>	Austria	Real time PCR umethods for simultaneous detection, quantification and genotyping of Capripox viruses
17:15–17:30	O/205	<b>D.J. Wilson</b>	USA	Mycoplasma diagnosis by PCR from bedding of mycoplasmal dairy herds and association with disease in dairy animals
17:30–17:45	O/46	<b>M. L. Dia</b>	Mauritania	Epidemiology of camel trypanosomosis due to <i>Trypanosoma evansi</i> in Maruitania and control strategies for sustainable livestock production
17:45–18:00	O/219	<b>A. Lika</b>	Albania	Situation of animal health in Albania
18:00–18:25	O/123	<b>D. O'Brien/ P. Sketchley</b>	UK	An efficient stake holder driven approach to disease control
18:25–18:40	O/149	<b>I. Naletoski</b>	The F.Y.R. of Macedonia	Development, validation and implementation of animal health information systems in an environment without uniquely identified animals in transitional countries
<b>18:40–19:40</b>	<b>Concluding session 3 discussion</b>			

Posters of Session 3				
No. of Poster IAEA-CN-174	Name	Designating Member State/Organization		Title of Poster
P/2	<b>S.K. Intisar</b>	Sudan		Current situation of Peste des Petits ruminants (PPR) in Sudan
P/6	<b>S. Rafa</b>	Afghanistan		General information about veterinary services and livestock in Afghanistan
P/11	<b>J.M. Akil</b>	Tanzania, U. R. of		The impact of AHIP Awareness Campaigns on the public knowledge of the disease in Zanzibar
P/36	<b>A.O. Talabi</b>	Nigeria		Parasites of cattle in the trans-boundary areas of Ogun State, Nigeria
P/43	<b>H. Tazka</b>	Algeria		Cloning and vaccination properties of the sporozoite antigen <i>Eimeria stiedae</i> (Rabbit coccidiosis)
P/47	<b>T.T. Sebhatu</b>	Eritrea		An outbreak of Contagious Bovine Pleuropneumonia (CBPP) and post outbreak sero-surveillance in Eritrea
P/49	<b>R.S. Kalupahana</b>	Sri Lanka		Study on prevalence and the age at initial colonization of <i>Campylobacter</i> in broiler flocks in central province of Sri Lanka
P/62	<b>T. Zacarias</b>	Angola		Prevalence and control of bovine dermatophilosis in Angola
P/69	<b>K.H. Zessin</b>	Germany		MTADM: The new Joint Master Programme In Transboundary Animal Disease Management for Eastern Africa
P/82	<b>C. Tungalag</b>	Mongolia		Preliminary results of the c-ELISA for the surveillance of antibodies to bluetongue virus in livestock in Mongolia
P/93	<b>Q.M. Khan</b>	Pakistan		PCR based detection & epidemiology of FMDV and PPRV in field samples from Punjab, Pakistan
P/113	<b>C. Soliva</b>	Switzerland		An overview of goat farming in the Hambantota district of Sri Lanka with special reference to health aspects
P/157	<b>R.P.V.J. Rajapakse</b>	Sri Lanka		Anthelmintic activity of medicinal plant extracts against gastrointestinal nematodes in naturally infected goats
P/176	<b>A. Kabore</b>	Burkina Faso		Anthelmintic activity of <i>Daniellia oliveri</i> against <i>Haemonchus contortus</i> worms in Burkina Faso
P/177	<b>H.H. Tamboura</b>	Burkina Faso		Anthelmintic activity of <i>Anogeissus leiocarpus</i> against <i>Haemonchus contortus</i> worms in Burkina Faso
P/184	<b>I.P. Pchelkina</b>	Russia		Newcastle disease: molecular-biological diagnosis in the Russian Federation
P/192	<b>M. Niang</b>	Mali		Epidemiological survey of Contagious Bovine Pleuropneumonia in Mali
P/235	<b>D.R. Khanal</b>	Nepal		Possible implication of ground radiation in the development of Khari disease in lactating buffaloes in the far western Nepal
P/239	<b>A.Z. Durrani</b>	Pakistan		Detection of ovine <i>Theileria</i> species in Lahore district, Pakistan



<i>No. of Poster IAEA-CN-174</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
P/240	<b>C.E. Lamien</b>	Austria	Phylogenetic analysis of the capripoxvirus RPO30 gene and its use for development of a PCR for differentiating SPPV from GTPV
P/281	<b>M.R. Diallo</b>	Guinea	Detection of Rift Valley Fever in the Republic of Guinea Conakry

<b>THURSDAY, 11 JUNE 2009</b>				
<b>09:00–13:00</b>	<b>SESSION 4: One health</b>			
<b>Chair</b>	<b>S. Mas Coma</b>	Spain		
<b>Rapporteur</b>	<b>A. Luckins</b>	IAEA		
<i>Time</i>	<i>No. of Paper IAEA–CN–174</i>	<i>Name</i>	<i>Designating Member State/ Organization</i>	<i>Title of Paper</i>
09:00–09:30	K/274	<b>J. Schlundt</b>	WHO	One World One Health: what can be learned from the farm to the fork
09:30–10:00	K/275	<b>E. Schelling</b>	Switzerland	One World One Health: is there a need for a global research agenda?
10:00–10:30	K/276	<b>D. Lo Fo Wong</b>	WHO	Benefits of integrating laboratory results from animal, food and human investigations
10:30–10:45	O/215	<b>R.P.V.J. Rajapakse</b>	Sri Lanka	Rickettsioses in the central hills of Sri Lanka: prevalence of Spotted Fever group infections
10:45–11:00	O/214	<b>R.I. Mackie</b>	USA	Use of antibiotics in animal agriculture and the fate of antibiotic residues and resistance genes in the environment after land application of swine manure
<b>11:00–11:30</b>	Coffee Break / Poster Viewing			
11:30–11:45	O/60	<b>A.R. Bahaman</b>	Malaysia	The enzyme linked immunosorbent assay (ELISA ) for rapid screening and early detection of acute leptospirosis
11:45–12:00	O/187	<b>M.D. Barges</b>	Spain	Molecular biology characterization, origin and spread of human and animal fasciolosis in the Americas
12:00–12:15	O/150	<b>P.F. Cuervo</b>	Argentina	Climatic characteristics of areas with presence of lymnaeid snails in fasciolosis endemic areas of Mendoza province, Argentina
12:15–12:30	O/210	<b>G. Georgiev</b>	Bulgaria	Current status, surveillance and control of avian flu in domestic and wild bird populations in Bulgaria
<b>12:30–13:00</b>	<b>Concluding session 4 discussion</b>			
<b>13:00–14:30</b>	Lunch Break			

<b>14:30–17:45</b>	<b>SESSION 5: Achieving food safety and security in the 21<sup>st</sup> century</b>			
<b>Chair</b>	<b>J. Hodges</b>	Austria		
<b>Rapporteur</b>	<b>A. Luckins</b>	IAEA		
<i>Time</i>	<i>No. of Paper IAEA–CN–174</i>	<i>Name</i>	<i>Designating Member State/ Organization</i>	<i>Title of Paper</i>
14:30–15:00	K/100	<b>M. Jeggo</b>	Australia	Biosecurity and trade in a global market place
15:00–15:30	K/277	<b>R. Enriquez</b>	Chile	The future of aquaculture, and its role to ensure food security – disease impact as a challenge to sustainable development in producer countries
15:30–16:00	K/278	<b>M. Gómez</b>	Mexico	Production of biopharmaceutical compounds in plants: potential and applications
<b>16:00–16:30</b>	Coffee Break / Poster Viewing			
16:30–16:45	O/137	<b>M. Horacek</b>	Austria	Austrian meat: authenticity control by stable isotope analysis
16:45–17:00	O/195	<b>J. Choi</b>	Korea, Rep. of	Quality comparison between gamma-irradiated or electron beam irradiated pork patties
17:00–17:15	O/160	<b>A.R. Peters</b>	UK	Registration and commercialisation of the East Coast Fever Muguga cocktail vaccine
<b>17:15–17:45</b>	<b>Concluding session 5 discussion</b>			
<b>17:45–18:00</b>	<b>CLOSING SESSION AND VOTE OF THANKS</b>			
	<b>M. Cetto</b>			Deputy Director General Head of the Department of Technical Cooperation, IAEA
	<b>G. Viljoen</b>			Head of the Animal Production and Health Section, IAEA

Posters of Session 4			
No. of Poster IAEA-CN-174	Name	Designating Member State/Organization	Title of Poster
P/24	<b>E.S. Swai</b>	Tanzania, U. R. of	Prevalence of Rift Valley Fever IgG antibody in various occupational groups before the 2007 outbreak in Tanzania
P/67	<b>R.E.C. Caicedo</b>	Mexico	Effects of beta agonists in the diagnosis of fasciolosis in <i>Bos indicus</i> X <i>Bos taurus</i> in the State of Puebla. México.
P/84	<b>L. Rojas</b>	Cuba	Monoclonal antibody sandwich immunoassay detection of coproantigen to evaluate the efficacy of treatment in natural ovine fasciolosis
P/122	<b>R. Nurgaziev</b>	Kyrgyz Republic	Situation on zoonoses in the Kyrgyz Republic
P/128	<b>H.M. Msami</b>	Tanzania, U. R. of	Review of the biosecurity in different poultry sectors to prevent Highly Pathogenic Avian Influenza in Tanzania
P/169	<b>T.M.A. El Hassan</b>	Sudan	IgM capture enzyme linked immunosorbent assay (ELISA) used as a diagnostic tool for Rift Valley Fever in Sudan
P/171	<b>E. Deis</b>	Argentina	Epidemiology of livestock fasciolosis in Mendoza province, Argentina
P/180	<b>J.R. Espinoza</b>	Peru	Tracking <i>Fasciola hepatica</i> transmission using ND1 and CO1 gene polymorphisms in endemic areas
P/182	<b>J.R. Espinoza</b>	Peru	Immunodiagnosis of <i>Fasciola hepatica</i> infection in cattle using Fas2-ELISA
P/185	<b>A.V. Andriyasov</b>	Russia	Avian influenza diagnosis in the Russian Federation: achievements and perspectives
P/189	<b>R. Mera y Sierra</b>	Argentina	Zoonotic implications due to the presence of <i>Galb truncatula</i> , vector of <i>Fasciola hepatica</i> in Mendoza, Argentina
P/193	<b>L. Mulumba Mfumu</b>	Congo, Dem. R. of	Rift Valley Fever in Central Africa: serological evidence and virus antigen detection in cattle in the Democratic Republic of Congo
P/197	<b>S.S. Kyi</b>	Myanmar, Union of	Detection and control of trans-boundary animal diseases, including zoonoses, in Myanmar
P/208	<b>E. Isselmou</b>	Mauritania	Rabies control in Mauritania
P/218	<b>E. Prukner-Radovic</b>	Croatia	Avian influenza in Croatia - current status
P/224	<b>J. Paweska</b>	South Africa	Molecular epidemiology of Rift Valley Fever virus based on genetic analysis of the virus isolates recovered in 1944-2008 from distinct geographic regions
P/225	<b>J. Paweska</b>	South Africa	Epidemiology of Rift Valley Fever and risks for its introduction into Europe
P/226	<b>J. Paweska</b>	South Africa	Preliminary evaluation of a recombinant Rift Valley Fever virus nucleocapsid protein as an immunogen in combination with different adjuvants in mice and sheep

<i>No. of Poster IAEA-CN-174</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
P/227	<b>R.J.L. Zumaquero</b>	Mexico	Prevalence of liver flukes <i>Fasciola hepatica</i> in cattle of Puebla State in Mexico
P/243	<b>T. Goletic</b>	Bosnia and Herzegovina	Active avian influenza surveillance in backyard poultry population in the Federation of Bosnia and Herzegovina during 2008-2009
P/267	<b>H. He</b>	China	RNA Interference of Avian Influenza virus H5N1 by directly inhibiting mRNA with siRNA expression plasmids
<b>Posters of Session 5</b>			
<i>No. of Poster IAEA-CN-174</i>	<i>Name</i>	<i>Designating Member State/Organization</i>	<i>Title of Poster</i>
P/57	<b>C. Makridis</b>	Greece	Transfer of heavy metal from animal feedstuff to animal products
P/83	<b>S. Biswas</b>	India	A comparative study on different surface decontaminants on chevon carcass quality to achieve product safety
P/106	<b>J.M.K.J.K. Premarathne</b>	Sri Lanka	Establishment of antimicrobial residue monitoring programme for food of animal origin in Sri Lanka
P/126	<b>R.H.M.M. Granja</b>	Brazil	Development of a reliable method for the determination of antimicrobial residues agents in poultry meat
P/134	<b>A.L. Hung</b>	Peru	Advances in sarcocystosis diagnosis in South American camelids in Peru
P/136	<b>M. Horacek</b>	Austria	Control of authenticity of Tyrolean milk by stable isotope measurements
P/139	<b>C. Nyeleti</b>	Zambia	The effect of sunlight on the survival of <i>Salmonella</i> species from poultry production chain environment in Zambia
P/154	<b>A. Albu</b>	Romania	Evaluation of lead and cadmium residues in mixed broiler feeds and some raw materials
P/175	<b>C. Nyeleti</b>	Zambia	The Persistence of <i>Salmonella enteritidis</i> PT4 LA5 on surfaces and non surfaces from the poultry production chain environment in Zambia
P/196	<b>J. Choi</b>	Korea, Rep. of	Effect of combined treatment of gamma irradiation and addition of seaweed extract on ready-to-eat meat

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27-30 October, Vienna, Austria

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7-11 December, Kyoto, Japan

Int'l Conference on Effective Nuclear Regulatory Systems  
14-18 December, Cape town, South Africa

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25-29 October, Tokyo, Japan

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## NOTES