

Programme Committee: J.D. Dargie, IAEA
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IAEA Symposium Secretariat:

Scientific Secretary: H.P.S. Makkar
Conference Services: K. Morrison
Assistant to Scientific Secretary: R. Schellander

Location of the Symposium:

International Atomic Energy Agency
Vienna International Centre (VIC)
Building C, 2nd floor, Meeting Room I
Wagramer Strasse 5
A-1400 Vienna, Austria
Tel: (+43 1) 2600 4611
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Working Language: English

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

Acknowledgement: The Agency acknowledges contributions to the Symposium from the following firms:
AMEX Export Import GmbH;
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The contributions have been used to cover the costs of the exhibition, and the costs of supporting scientists from developing countries in attending the Symposium.

The fact that the IAEA has provided facilities for exhibiting equipment and products at the Symposium does not imply that the IAEA endorses the equipment and products exhibited.

TIMETABLE

Sunday, 5 October 2003

16:00-18:00 Registration

Monday, 6 October 2003

08:00 Registration
09:30 Opening Addresses
10:15 Opening Session
12:15 Lunch
14:00 Session I
15:20 Coffee Break
15:50 Session I (cont'd)
19:00 Reception

Tuesday, 7 October 2003

09:00 Session I (cont'd)
10:40 Poster Session and Coffee Break
11:30 Discussion on posters
12:00 Lunch
13:30 Panel Discussion 1
15:30 Coffee Break
16:00 Session II

Wednesday, 8 October 2003

09:00	Session II (cont'd)
11:40	Poster Session and Coffee Break
12:30	Discussion on posters
13:00	Lunch
14:20	Session III
15:40	Coffee Break
16:10	Session III (cont'd)

Thursday, 9 October 2003

09:00	Session III (cont'd)
10:20	Coffee Break
10:50	Session IV
12:50	Lunch
14:10	Session IV (cont'd)
16:10	Coffee Break
16:40	Panel Discussion 2

Friday, 10 October 2003

09:00	Panel Discussion 3
12:00	Closing ceremony
12:50	Lunch
14:00	Optional visit to FAO/IAEA Agricultural Laboratory Seibersdorf

SUNDAY, 5 OCTOBER 2003

16:00–18:00 Registration

MONDAY, 6 OCTOBER 2003

08:00 Registration

09:30–10:15 OPENING ADDRESSES:
W. Burkart, Deputy Director General,
Head of Department of Nuclear Sciences
and Applications, IAEA
S. Jutzi, Director, Animal Production
and Health Division, FAO
J.D. Dargie, Director, Joint FAO/IAEA
Division of Nuclear Techniques in Food
and Agriculture

10:15–12:15 OPENING SESSION: SETTING THE SCENE

Chairperson: S. Jutzi, FAO

<i>No. of Paper IAEA-CN-110 Time</i>	<i>Name(s)</i>	<i>Designating Member State/Organization</i>
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PL91 10:15–11:15	E.P. Cunningham	Ireland
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PL92 11:15–12:15	M.H. Jeggo	Australia
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12:15–14:00 Lunch

Title of Paper

A vision of the gene-based technologies for the livestock industries in the third millennium

Challenges and opportunities for controlling and preventing animal diseases in developing countries through gene-based technologies

14:00–17:30 **SESSION I: GENE-BASED TECHNOLOGIES
APPLIED TO LIVESTOCK GENETICS
AND BREEDING**

Chairperson: **J. Gibson, ILRI, Kenya**

<i>No. of Paper IAEA-CN-110 Time</i>	<i>Name(s)</i>	<i>Designating Member State/Organization</i>
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KN17 14:00–14:40	J.L. Williams	UK
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KN90 14:40–15:20	R. Cardellino I. Hoffmann K.A. Tempelman	FAO
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KN34 15:50–16:30	B. Whitelaw	UK
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15:20–15:50 **Coffee Break**

33	Shashikanth B.R. Yadav	India
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79	B. Lkhagva J.W. Ochieng D.H. Yoon O. Hanotte H. Jianlin	Mongolia
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53	E. Melchinger T.D.T. Nguyen A.W. Kuss T. Peischl H. Bartenschlager V.C. Nguyen H. Geldermann	Germany
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19:00 **Reception**

Title of Paper

Molecular genetics and livestock selection: Approaches, opportunities and risks

First report on the state of the world's animal genetic resources: views on biotechnologies as expressed in country reports

Development of germline manipulation technologies in livestock

Polymorphism in Sahiwal breed of zebu cattle revealed using synthetic oligonucleotide markers

Genetic diversity and differentiation of Mongolian indigenous cattle populations

Genetic diversity and relationships of Vietnamese and European pig breeds

TUESDAY, 7 OCTOBER 2003

**09:00–10:40 SESSION I (cont'd): GENE-BASED
TECHNOLOGIES APPLIED TO LIVESTOCK
GENETICS AND BREEDING**

<i>No. of Paper IAEA-CN-110 Time</i>	<i>Name(s)</i>	<i>Designating Member State/Organization</i>
KN56 09:00–09:40	J.H.J. van der Werf K. Marshall	Australia
65	C. Nimbkar V.C. Pardeshi	India
21	A. Meikle D. Cavestany L. Sahlin W.W. Thatcher E.G. Garófalo H. Kindahl M. Forsberg	Uruguay
69	D.M.A. Belemsaga K. Moazami-Goudarzi S. Thevenon S. Sylla	Burkina Faso
10:40–11:30	Poster Session related to Session 1 and Coffee Break	
11:30–12:00	Discussion on posters Chairperson: I. Hoffmann, FAO	
12:00–13:30	Lunch	

Title of Paper

Combining gene-based methods and reproductive technologies to enhance genetic improvement of livestock in developing countries

Evaluation of the utility of the FecB gene to improve the productivity of Deccani sheep in Maharashtra, India

Effect of pregnancy on sex steroid receptor mRNA endometrial expression and on prostaglandin F_{2α} metabolite concentrations in heifers

West African cattle breeds characterizations: Review of CIRDES genetic works

13:30–15:30 **PANEL DISCUSSION 1: Which gene-based technologies are most likely to succeed in enhancing animal productivity in developing countries?**

Moderator: J. Donelson, USA

**Panellists: R.I. Mackie, USA;
J.P. Gibson, ILRI, Kenya;
J.R. Egerton, Australia**

<i>No. of Paper IAEA-CN-110 Time</i>	<i>Name(s)</i>	<i>Designating Member State/Organization</i>
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PD58	R.I. Mackie I.K.O. Cann	USA
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PD52	J.P. Gibson	ILRI, Kenya
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PD51	J.R. Egerton	Australia
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15:30–16:00 **Coffee Break**

16:00–18:00 **SESSION II: GENE-BASED TECHNOLOGIES
APPLIED TO PATHOGENS AND
HOST-PATHOGEN INTERACTIONS**

Chairperson: P.P. Pastoret, UK

KN87 16:00–16:40	G.J. Viljoen M. Romito P. Kara	South Africa
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KN50 16:40–17:20	T. Mebatsion	Netherlands
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KN 82 17:20–18:00	A. Vanderplasschen	Belgium
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Title of Paper

Application of gene-based technologies directed at commensal gut bacteria to solve animal productivity constraints in developing countries

Animal breeding in developing countries based on gene-based selections

Gene-based vaccine development for improving animal production in developing countries

Current and future developments in nucleic acid-based diagnostics

Reverse genetics with animal viruses

Viral subversion of the immune system

WEDNESDAY, 8 OCTOBER 2003

**09:00–11:40 SESSION II (cont'd): GENE-BASED
TECHNOLOGIES APPLIED TO PATHOGENS
AND HOST-PATHOGEN INTERACTIONS**

<i>No. of Paper IAEA-CN-110 Time</i>	<i>Name(s)</i>	<i>Designating Member State/Organization</i>
KN46 09:00–09:40	J.E. Donelson	USA
18	P. Willadsen	Australia
19	S. Parida S. Kumar P. Walsh M. Baron T. Barrett	UK
93	E.L.N. Taracha V. Nene M. Gardner P. Van Der Bruggen A.J. Musoke S.P. Morzaria	ILRI, Kenya
94	I.E. Bergmann V. Malirat E. Neizert E. Correa Melo	Brazil
96	E. Domingo	Spain
11:40–12:30	Poster Session related to Session II and Coffee Break	
12:30–13:00	Discussions on posters Chairperson: T. Barrett, UK	
13:00–14:20	Lunch	

Title of Paper

The molecular basis of livestock diseases in developing countries as illustrated by African trypanosomosis

Vaccination against ticks and the control of ticks and tick-borne disease

Development of marker vaccines for rinderpest virus using reverse genetics technology

Vaccines against East Coast fever: Where do we stand?

Evaluation of diagnostic tools for epidemiological purposes: application to foot-and-mouth disease

Virus evolution in the face of the host response

14:20–17:50

**SESSION III: GENE-BASED TECHNOLOGIES
APPLIED TO PLANTS, RUMEN MICROBES,
AND SYSTEMS BIOLOGY**

Chairperson: C.S. McSweeney, Australia

<i>No. of Paper IAEA-CN-110 Time</i>	<i>Name(s)</i>	<i>Designating Member State/Organization</i>
KN76 14:20–15:00	M. Morrison K.E. Nelson	USA
KN86 15:00–15:40	G. Spangenberg	Australia
15:40–16:10	Coffee Break	
47	E. Collins C.S. McSweeney D.O. Krause L.L. Blackall	Australia
48	D.O. Krause W.J.M. Smith J.D. Brooker C.S. McSweeney	Australia
57	A.H. Smith E.G. Zoetendal M. A. Sundset R.I. Mackie	USA
83	G.J. McCrabb C.S. McSweeney S. Denman M. Mitsumori H.P.S. Makkar	ILRI, Ethiopia
02	E. Wina S. Muetzel H.P.S. Makkar K. Becker	Indonesia

Title of Paper

Rumen microbial genomics

Transgenesis and genomics in molecular breeding of pasture grasses and legumes for forage quality and other traits

Investigation of the rumen microbial community responsible for degradation of a putative toxin in *Acacia angustissima*

Ecology of tannin-tolerant streptococci in the rumen

Application of molecular microbial ecology and functional genomics tools to elucidate mechanisms of tannin resistance in intestinal bacteria

The application of molecular microbial ecology tools to facilitate the development of more efficient feeding systems and reduce adverse environmental effects of ruminant livestock in the developing world

The effect of secondary compounds on the rumen microbial population structure measured by 16S rRNA and 18S rRNA

THURSDAY, 9 OCTOBER 2003

09:00–10:20 **SESSION III (cont'd): GENE-BASED
TECHNOLOGIES APPLIED TO PLANTS,
RUMEN MICROBES, AND SYSTEMS BIOLOGY**

<i>No. of Paper IAEA-CN-110 Time</i>	<i>Name(s)</i>	<i>Designating Member State/Organization</i>
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KN45 09:00–09:40	G.S. Harper S.A. Lehnert P.L. Greenwood	Australia
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KN15 09:40–10:20	C.W. Forsberg S.P. Golovan J.P. Phillips A. Ajakaiye M.Z. Fan R.G. Meidinger R.R. Hacker	Canada
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10:20–10:50 **Coffee Break**

10:50–16:10 **SESSION IV: GENE-BASED
TECHNOLOGIES IN ENVIRONMENT,
FOOD SAFETY AND ANIMAL INDUSTRY
AND RELATED ETHICAL AND
INTELLECTUAL PROPERTY RIGHT ISSUES**

Chairperson: J. Hodges, Austria

KN85 10:50–11:30	P.C. Kesavan M.S. Swaminathan	India
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KN55 11:30–12:10	R.H. Phipps D.E. Beever R. Einspanier	UK
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KN95 12:10–12:50	H.P.S. Kochhar G.A. Gifford S. Kahn	Canada
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12:50–14:10 **Lunch**

KN62 14:10–14:50	G.M. Dutfield	UK
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Title of Paper

Nutrition-gene interaction (post genomics): Changes in gene expression through nutritional manipulations

Options for development of transgenic pigs with enhanced performance traits

Ethical, social, environmental and economic issues in animal agriculture

Risks of gene transfer from GMOs to livestock and its consequences for health and nutrition

Regulatory and bio-safety issues in relation to transgenic animals in food and agriculture, feeds containing GMO and veterinary biologics

Intellectual property rights issues with relevance to the application of gene-based technologies to animal production and health in developing countries

10:50–16:10

SESSION IV

<i>No. of Paper IAEA-CN-110 Time</i>	<i>Name(s)</i>	<i>Designating Member State/Organization</i>
08	Tin Tin Myaing A.A. Saleha A.K. Arifah A.R. Raha	Myanmar
09	J. A. Qasem S. Al-Mouqati G.P. Rajkumar	Kuwait
44	J.S. Gavora H.P.S. Kochhar G.A. Gifford	Canada
81	R. McFarlane	New Zealand
16:10–16:40	Coffee Break	
16:40–18:30	PANEL DISCUSSION 2: Role of international organizations and funding agencies in promoting gene-based technologies in developing countries Moderator: G. Apostolatos, European Commission Panellists: M.L. Madan, India; J. Hodges, Austria; M. Ståhl, IFS	
PD63	M.L. Madan	India
PD100	J. Hodges	Austria
PD89	M. Ståhl	IFS

Title of Paper

Antibiotic resistance and plasmids carriage among *Escherichia coli* isolates from chicken meat in Malaysia

Comparison of DNA probe, PCR amplification, ELISA and culture methods for the rapid detection of Salmonella in poultry

Control of bovine spongiform encephalopathy by genetic engineering: possible approaches and regulatory considerations

Genetically modified organisms in New Zealand and cultural issues

Opportunities and constraints for using gene-based technologies in animal agriculture in developing countries and possible role of international donor agencies in promoting R&D in this field

Objectives, capabilities and dangers in the role of international organizations and funding agencies in promoting gene-based technologies in developing countries

Role of international organisations and funding agencies

FRIDAY, 10 OCTOBER 2003

09:00–12:00 **PANEL DISCUSSION 3:**
Where to from here — how to translate
recommendations of this symposium
into action?

Moderator: M.H. Jeggo, Australia

Panellists:

Chairpersons of the Sessions and
Moderators of the Panel Discussions

- Presentations of conclusions and recommendations from each session and panel discussion
- Discussion
- Presentation of general conclusions and recommendations

12:00–12:30 **Closing ceremony/remarks**
J.D. Dargie, Director, Joint FAO/IAEA
Division of Nuclear Techniques in Food
and Agriculture

12:50–14:00 **Lunch**

14:00–18:00 **Optional visit to FAO/IAEA Agricultural**
Biotechnology Laboratory Seibersdorf
(Please register at the Conference Desk
by 14:00 hours, 8 October 2003)

POSTER PRESENTATIONS:
Tuesday, 7 October 2003, 10:40–11:30

<i>No. of Paper IAEA-CN-110</i>	<i>Name(s)</i>	<i>Designating Member State/Organization</i>
10P	J.M. Mwacharo C.J. Otieno A.M. Okeyo	Kenya
20P	L.P. Silva W.R.K.J.S. Rajapakshe	Sri Lanka
26P	D. Vasicek P. Chrenek A. Makarevich M. Bauer R. Jurcik K. Suvegova J. Rafay J. Bulla L. Hetenyi	Slovakia
29P	A. Morales A. González A. Shimada M. Cobos A. Varela O. Mora	Mexico
32P	N.A. Ganai B.R. Yadav	India
36P	L. Ouragh	Morocco
54P	S. Preuss H. Bartenschlager H. Geldermann	Germany
61P	L.A. Alvarez Franco J.E. Muñoz F. J. Torres A. Piedrahita A. Oslinger A.G. Rodas J.D. Palacios A.M. Posso M.V. Gomez	Colombia

Title of Paper

Suitability of blood protein polymorphisms in assessing genetic diversity in indigenous sheep populations in Kenya

Preliminary investigation on genetic characterization of native and endemic fowl types in Sri Lanka

Transgenic rabbits as a model organism for production of human factor VIII

Hepatic and duodenal expression of β , β -carotene 15,15' oxygenase in beef cattle

Parentage determination in three breeds of Indian goat using heterologous microsatellite markers

DNA polymorphism of Arabian, thoroughbred and Anglo-Arabian horses in Morocco: application to identification of individual horses and parentage verification

New polymorphic microsatellite loci for analysis of genetic diversity in camel species

Molecular characterization of zoogenetic resources

<i>No. of Paper IAEA-CN-110</i>	<i>Name(s)</i>	<i>Designating Member State/Organization</i>
71P	S.C. Gupta N. Gupta S.P.S. Ahlawat A. Kumar R. Taneja S.S. Bulandi R. Sharma M.S. Tantia	India
72P	S. Gaouar N. Tabet Aoul A. Derrar K. Goudarzi-Mouazami N. Saïdi-Mehtar	Algeria
101P	N. Gupta S.C. Gupta S.P.S. Ahlawat R. Sharma K. Gupta R. Taneja	India
68P	N. Selje S. Muetzel E.M. Hoffmann K. Becker	Germany

Title of Paper

Proliferation index of camel skin fibroblast cells as nuclear donor

Study of genetic diversity in Algerian sheep breeds
using microsatellite markers

Somatic cell banking — an alternative technology for
conservation of endangered sheep breeds

Addition of tannins to ruminant feed: Investigation of the effects
on ruminal microbiota by DGGE

POSTER PRESENTATIONS:
Wednesday, 8 October 2003, 11:40–12:30

<i>No. of Paper IAEA-CN-110</i>	<i>Name(s)</i>	<i>Designating Member State/Organization</i>
01P	A.C. Franco F.R. Spilki F.A.M. Rijsewijk P.M. Roehe	Brazil
04P	O. Deryabin O. Deryabina P. Verbitskiy V. Kordyum	Ukraine
11P	K.S. Palaniswami A. Thangavelu R. Velmurugan	India
12P	M.R. Islam R. Raue H. Müller	Bangladesh
13P	O.D. Koudande J.A.M. van Arendonk F. Iraqi	Benin
16P	D. Berthier S. Thevenon R. Quéré D. Belemsaga D. Piquemal L. Manchon J. Marti J.C. Maillard	Burkina Faso
23P	C.C. Deocarís	Philippines
24P	C.A.T. Villanueva A.C.S. Maligalig J.L.V. Relucio M.E.K. Dacanay E.A. Ramos C. Cantor M.S. Buenaventura K.F. Pobre R.G. Osorio C.C. Deocarís	Philippines

Title of Paper

The vaccine properties of a Brazilian BHV-1 strain with an induced deletion of the gE gene

Expression of the classical swine fever E₂ recombinant protein and examination of DNA-vaccine based on one subunit

Development of thermostable peste des petits ruminants (PPR) virus vaccine and assessment of molecular changes in the F gene

Molecular cloning of a Bangladeshi strain of highly virulent infectious bursal disease virus of chickens and adaptation in tissue culture by site directed mutagenesis

Improving resistance to trypanosomosis in mice through marker-assisted introgression

Serial analysis of gene expression (SAGE) in the genetic control of a *Trypanosoma congolense* infection in a trypanotolerant N'Dama cattle

Tapping the World Wide Web for designing vaccines applicable for livestock diseases

Complementing nuclear with DNA vaccine technologies for improving animal health: The Philippine experience

<i>No. of Paper IAEA-CN-110</i>	<i>Name(s)</i>	<i>Designating Member State/Organization</i>
27P	L.K. Mulumba-Mfumu L.K. Dixon P.J. Wilkinson G.H. Hutchings	Democratic Republic of Congo
28P	R. Felmer J. Zuniga H. Floody M. Recabal	Chile
31P	B.R. Yadav	India
37P	C. Le Goff E. Fakhfakh A. Chadéras G. Libeau A. Diallo E. Albina	France
39P	L. Prozesky G. Adams E.H. Venter T. Meiring D. Verwoerd P.D. van Helden	South Africa
40P	A.I. Khalafalla M. Buettner H.-J. Rziha	Sudan
43P	D.J. Comerci J.E. Ugalde R.A. Ugalde	Argentina
66P	M.O. Otim M. Bisgaard H. Christensen P. Jorgensen K. Handberg	Uganda
74P	A.M.R. Dávila L.T.A. Guerreiro S.S. Souza	Brazil

Title of Paper

Molecular characterization of field isolates of African Swine Fever virus involved in infection persistence in Central Africa: with reference to the Democratic Republic of Congo

Use of DNA from milk tank for diagnostic and typing of bovine leukosis virus

Molecular marker studies in riverine buffaloes for characterization and diagnosis of genetical defects

G protein-coupled chemokine receptor, a host range gene suitable for phylogenetic grouping of the Capripoxviruses

The use of gene-based technology to determine the prevalence of dairy and beef cattle with a natural resistance to bovine brucellosis in South Africa

The use of polymerase chain reaction (PCR) for rapid diagnosis and differentiation of para- and ortho-pox virus infections in camels

Development of a new live rough vaccine against bovine brucellosis

Molecular characterization and phylogenetic study of NDV isolates from recent outbreaks in Uganda

Gene discovery in trypanosoma vivax through GSS and comparative genomics

<i>No. of Paper IAEA-CN-110</i>	<i>Name(s)</i>	<i>Designating Member State/Organization</i>
77P	Y. Thiongane P. Lena M. Moustapha Lo B. Sall V. Martin P. Formenty P. Vialat M. Bouloy	Senegal
88P	D. Sy K. Tounkara A. Diallo G. Libeau A. Diarra B. Kamissoko A.P. Traore C.F. Simbe	Mali
98P	P.N. Wambura H.M. Msami	United Republic of Tanzania
99P	K. Hruska K.J. Wojciechowski	Czech Republic

Title of Paper

Pathogenicity and immunogenicity of the reassortant attenuated strain R566 of Rift Valley fever virus in sheep

Comparison of immunocapture and RT-PCR techniques for the detection of peste-des-petits-ruminants virus (PPRV) in eye and nose swabs from infected animals

Gene-based technology for characterisation of a virulent thermostable vaccine strain I-2 of Newcastle disease virus used in rural areas of developing countries

The CENTAUR network contribution to the gene-based technology: Dissemination of information, international collaboration and training

AGENCY PUBLICATIONS RELATED TO THE SUBJECT OF THE CONFERENCE

DOCUMENT NUMBER	TITLE	YEAR
ISBN 90-5782-094-3 Backhuys Publishers, NL	Characteristics and parameters of family poultry production in Africa	2002
IAEA-TECDOC-1261	Performance indicators for rinderpest surveillance	2001
IAEA-TECDOC-1220	Radioimmunoassay and related techniques to improve artificial insemination programmes for cattle reared under tropical and sub-tropical conditions	2001
ISBN 90-5782-065-X Backhuys Publisher, NL	Animal trypanosomosis: diagnosis and epidemiology	2000
IAEA-TECDOC-1161	Guidance for the use of performance indicators in rinderpest surveillance programmes	2000
IAEA-TECDOC-1150	Use of immunoassay technologies for the diagnosis and control of foot- and-mouth disease in Southeast Asia	2000
IAEA-TECDOC-1102	Development of feed supplementation strategies for improving the productivity of dairy cattle on smallholder farms in Africa	1999
IAEA-TECDOC-1093	Nuclear based technologies for estimating microbial protein supply in ruminant livestock	1999
IAEA-TECDOC-945	Estimation of rumen microbial protein production from purine derivatives in urine	1997
IAEA-TECDOC-925	Application of an immunoassay method to improve the diagnosis and control of African trypanosomosis	1997
IAEA-TECDOC-877	Development of feed supplementation strategies for improving ruminant productivity on small-holder farms in Latin America through the use of immunoassay techniques	1996

DATABASES AND SOFTWARE

Training Package to help Artificial Insemination (AI) Technicians to improve their performance in AI and field services to assist cattle farmers (2003).

Artificial Insemination Database Application for Asia — "AIDA Asia" version 2002, IAEA, Vienna (2002).

New version of SID (SID 98), Database for the evaluation of the Rinderpest Surveillance and Seromonitoring Data, and for the Cataloguing of the Serum Banks, IAEA, Vienna (1998).

New version of the ELISA Programme, "EDI" version 2.2. IAEA, Vienna (1998).

PARTICIPATION IN IAEA SCIENTIFIC MEETINGS

Governments of Member States and those organizations whose activities are relevant to the meeting subject matter are invited to designate participants for IAEA scientific conferences, symposia and seminars. In addition, the IAEA itself usually invites a very limited number of scientists as invited speakers and only participants designated or invited in this way are entitled to present papers and take part in the discussions.

Scientists interested in participating in any of the Agency's meetings should request information from the Government authorities of their own countries, in most cases their Ministry of Foreign Affairs or national atomic energy authority.

PUBLICATIONS

Proceedings

Papers presented at the Symposium will be peer reviewed and those accepted included in the proceedings. Contributors will receive a copy free of charge. To purchase a copy please contact:

J. Lawrence, Kluwer/Plenum Publishers,
Alpha House, 100 Borough High Street, London SE1 1LB,
United Kingdom,

Tel: ++44 20 7863 3317; Fax: ++44 20 7863 3314;

e-mail: Joanna.Lawrence@wkap.com

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Order forms for IAEA publications are available at the Conference Desk. Publications may also be ordered from the Agency's sales agents in a large number of countries or ordered directly from the Publishing Section: International Atomic Energy Agency,

P.O.Box 100, A-1400 Vienna, Austria.

SCIENTIFIC MEETINGS SCHEDULED BY THE IAEA

2003

International Conference on Research Reactor Utilization, Safety, Decommissioning, Fuel and Waste Management
10–14 November, Santiago, Chile

2004

International Symposium on Nuclear Oncology
19–23 January, Porto Alegre, Brazil

International Conference on Topical Issues in Nuclear Safety
24–28 May, Vienna, Austria

International Conference on Fifty Years of Nuclear Power — the Next Fifty Years
28 June–2 July, Moscow/Obninsk, Russian Federation

International Symposium on Quality Assurance for Analytical Methods in Isotope Hydrology
25–27 August, Vienna, Austria

International Conference on Isotopes in Environmental Studies
30 August–3 September, Monaco

International Conference on Nuclear Power in the 21st Century
October/November, Paris, France

20th IAEA Fusion Energy Conference
1–6 November, Vilamoura, Portugal

**For information on forthcoming scientific meetings, please consult the IAEA WorldAtom website:
<http://www.iaea.org/worldatom/Meetings/>**

