



FAO-CIHEAM Network on Sheep and Goats
Sub-Network on Production Systems

8th International Seminar

Technology creation and transfer in small ruminants: roles of research, development services and farmer associations

Tangier, Morocco, 11 to 13 June 2013



Organised by:

National Institute of Agricultural Research, Tangier (Morocco)

International Centre for Advanced Mediterranean Agronomic Studies
Mediterranean Agronomic Institute of Zaragoza (CIHEAM-IAMZ)

With the technical support of:

The Food and Agriculture Organization of the United Nations (FAO)

Second Announcement
www.iamz.ciheam.org/tangier2013

Background and objectives of the Seminar

Small ruminants are important for income generation and security, food supply and for development in rural Mediterranean areas especially in mountainous and marginal regions. Nevertheless, Mediterranean sheep and goat farms generally have low productivity and income levels, and the adoption of cost-effective technologies and management practices for improving flock productivity and farmers' incomes is limited. This is largely due to socio-economic factors, such as the marginal areas in which they produce or the low capitalization of farms, but also to the lack of adaptation of these technologies to field conditions.

Innovation creation, adaptation and transfer are integrated steps to the adoption of successful technology by farmers and their associations. The results from each step of this pathway contribute to global success in the adoption approach, where improvements are simultaneously technical, economic, social and institutional.

The National Institute of Agricultural Research of Morocco (INRA) and the Mediterranean Agronomic Institute of Zaragoza - CIHEAM organise the 8th Seminar of the FAO-CIHEAM Sub-Network on Production Systems entitled "Technology creation and transfer in small ruminants: roles of research, development services and farmers associations", in Tangier (Morocco), from 11 to 13 June 2013.

The objective of the Seminar is to encourage participation and interaction among scientists and technicians involved in small ruminant production systems, with a view to: (1) analyse the evolution and efficacy of the technologies developed during the last decades; (2) evaluate the existing small ruminant research structures and programmes in the Mediterranean region and discuss approaches developed and major results obtained; and (3) present and analyse technology transfer models and tools adopted, highlighting the specific roles of the different stakeholders, such as public administrations, farmers associations and private companies.

Organisation and venue

The Seminar is organised by the National Institute of Agricultural Research of Morocco (INRA), through Regional Center of Agricultural Research (CRRRA) of Tangier, and the Mediterranean Agronomic Institute of Zaragoza - CIHEAM, with the technical support of the Food and Agriculture Organization of the United Nations (FAO). The Seminar will last two days providing a forum for scientific and technical exchanges and a one-day field trip. The scientific and technical exchanges will be structured in three sessions and a round table, with keynote guest speakers. The Seminar will also be open to free contributions.

The Seminar will be held at the Hotel Husa Solazur of Tangier (Avenue Mohamed VI - 90000 Tangier, Morocco)

Scientific Committee

P. Morand-Fehr, AgroParisTech, France
M. Chentouf, INRA, Morocco
R. Mrabet, INRA, Morocco
M. Hassani, DRA de Tanger -Tétouan, Morocco
M. Bengoumi, FAO-SNE, Tunisia
J. P. Boutonnet, INRA, France

I. Casasús, CITA-DGA, Spain
D. Gabiña, IAMZ-CIHEAM, Spain
A. López-Francos, IAMZ-CIHEAM, Spain
A. Nefzaoui, ICARDA, Tunisia
F. Pacheco, DRAP-Norte, Portugal
R. Ruiz, Neiker, Spain

Organisation Committee

M. Chentouf, INRA Morocco
B. Farahat Laaroussi, INRA Morocco
N. El Mourabit, INRA Morocco
M. El Fadili, INRA Morocco
M. Hassani, DRA de Tanger - Tétouan, Morocco
M. Ayadi, INRA Morocco

A. Benlekhal, MAPM, Morocco
S. Fagouri ANOC, Morocco
D. Gabiña, IAMZ-CIHEAM, Spain
A. López-Francos, IAMZ-CIHEAM, Spain
M. Bengoumi, FAO-SNE, Tunisia
P. Morand-Fehr, AgroParisTech, France

Provisional programme

11 June

- 08:30 - 09:15 Registration
- 09:15 - 09:45 Opening ceremony
- 09:45 - 13:00 **Session 1. Evolution and efficacy of technologies in sheep and goat production systems**
Chairperson: F. Pacheco, DRAP-Norte, Portugal
- Invited conferences**
- 09:45 - 10:15 Evolution and efficacy of technologies in sheep production systems in North Africa. *M. Bengoumi. FAO-SNE, Tunisia.*
- 10:15 - 10:45 Technologies and innovations for goat production systems. *M. Chentouf. INRA Tanger, Morocco*
- 10:45 - 11:15 *Poster viewing and coffee break*
- Oral presentations**
- 11:15 - 11:30 Proposal of complementary indicators in reproduction and selection to evaluate sheep and goat production systems. *G. Toussaint, P. Morand-Fehr, J.M. Castel-Genis, M. Chentouf, Y. Mena, F. Pacheco, A. Ruiz, G. Srour. FAO-CIHEAM Network on Sheep and Goats*
- 11:30 - 11:45 Evolution and efficacy of use of indicators for improving goat pastoral farms. *Y. Mena, F.A. Ruiz, J.M. Castel, R. Gutiérrez, G. Toussaint. FAO-CIHEAM Network on Sheep and Goats*
- 11:45 - 12:00 Feeding strategy of sheep in low rainfall areas. *A. Chriyaa. INRA, Settat, Morocco*
- 12:00 - 12:15 Artificial insemination in Moroccan sheep: the present and perspectives. *B. El Amiri, X. Druart, A. Fatet. INRA, Settat, Morocco*
- 12:15 - 12:30 Efficiency of ovine artificial insemination in Ouled Djellal breed. *A. Allaoui, B. Safsaf, I. Djaalab, W. Laghrour, S. Haffaf, M. Tlidjane. Univ. Batna, Algeria*
- 12:30 - 12:45 The incorporation of saponins sources (*Quillaja saponaria*, *Agave americana* and *Trigonella foenum-graecum* seeds) in the diet of Sicilo-Sarde ewes improves milk fatty acid profile. *S. Nasri, H. Ben Salem. INRAT, Tunis, Tunisia*
- 12:45 - 13:00 Genetic progress attained in the selection program of Florida breed of goats in Spain. *A. Menéndez-Buxadera, E. Muñoz-Mejías, J.M. Serradilla. Univ. Córdoba, Spain*
- 13:00 - 14:00 *Lunch*
- 14:00 - 14:15 Poster session 1
- 14:15 - 14:45 Discussion Session 1

14.45 - 19.00 **Session 2. Research in sheep and goats: structures, approach, investment and results obtained**

Chairperson: Mohammed Badraoui. INRA, Morocco

Invited conferences

14:45 - 15:15 Challenges to generate adaptable technologies and to build up strategic alliances for small ruminants research in low input systems: case of Tunisia. *Mourad Rekik, Hichem Ben Salem. IRESA, Tunisia*

15:15 - 15:45 The research and development programme in dairy sheep in the Basque Country. *Eva Ugarte. Neiker, Vitoria-Gasteiz, Spain*

15:45 - 16:15 Agriculture Research from the perspective of a Multilateral Development Bank: the Case of African Development Bank. *Bouachib Boulanouar. African Development Bank*

Oral presentations

16:15 - 16:30 Livestock future in North Africa. How can the advance rate of scientific knowledge progresses, technical innovation implementation and local empiricism be improved? *J. Chiche. IAV Hassan II, Rabat, Morocco*

16:30 - 16:45 L'élevage ovin dans les zones de hautes et moyennes montagnes marocaines comme vecteur de développement économique: cas de la province d'Azilal. *M. Benbati, B. Benjelloun, L. Haounou, M. Laghmir, B. Boulanoar. INRA Tadla, Morocco*

16:45 - 17:15 *Poster viewing and coffee break*

17:15 - 17:30 New sheep and goat products: "Mantas", cured legs and sausages. An integrated project in co-promotion. *A. Teixeira, S. Rodrigues. Inst. Politéc. de Bragança, Portugal*

17:30 - 17:45 New feeding technology using cactus in sheep fattening: applications to small-scale farms of Rhamna region, Morocco. *M. Bendaou, M'Barek Ait Omar. INRA, Rabat, Morocco*

17:45 - 18:00 Goat in Argan ecosystems: its environmental and socio-economic impacts. *A. El Aich. IAV Hassan II, Rabat, Morocco*

18:00 - 18:15 Technology transfer in small ruminant farming: the case of oases in the South and South East of Morocco. *M. Ibnelbachyr, A. Chikhi, S. Zantar, E. Sekkour, A. Lberji, A. Dadouc. INRA, Errachidia, Morocco*

18:15 - 18:30 Poster session 2

18:30 - 19:00 Discussion Session 2

12 June

09.00 - 12.45 **Session 3. Technology transfer in sheep and goat production systems: models, tools and actors**

Chairperson: M. Bengoumi, FAO-SNE, Tunisia

Invited conferences

09:00 - 09:30 Technology generation and transfer using the community approach in West Asia and North Africa. The ICARDA experience. *A. Nefzaoui, M. El Mourid, M. Louhaichi, B. Rischkowsky. ICARDA, Tunisia*

09:30 - 10:00 At livestock farming system scale, what models for what goals and which users: examples from France. *Marc Benoit. INRA, Clermont-Ferrand Theix, France*

Oral presentations

10:00 - 10:15 Ancestral know-how and transformation of farming systems in pasture-based environments: the future of local produce from the region of Djelfa. *A. Meguellati, M. Kanoun. INRA, Algeria*

- 10:15 - 10:30 Promoting native sheep breeds by autonomous production, involvement of farmers organizations, research and legislation. *M. Djemali, S. Romdhani. INAT, Tunis, Tunisia*
- 10:30 - 11:00 Poster viewing and coffee break*
- 11:30 - 11:45 Technical and economic characterisation of goat production systems in the north of Morocco using FAO-CIHEAM methodology. *B. Farahat Laroussi, M. Chentouf, G. Toussaint, A. Zayed. INRA, Tangier, Morocco*
- 11:45 - 12:00 National sheep and goat breeding program and breeder associations. Collaborations systems of Turkey. *I. Daskiran. Min. Food. Agr. Lives. of Turkey, Ankara*
- 12:00 - 12:15 Improvement of dairy sheep farming in Tunisia: success of an experience in the Béja region. *A. Brahmi, R. Khaldi, G. Khaldi. Ecole Sup. d'Agric. du Kef, Tunisia*
- 12:15 - 12:30 Implantation of star accelerated lambing system in extensive Merino breed farms. *F.A. Arrebola, B. Pardo, V. Vicario, F. Borjas, C. Leal, R.A. Alonso. IFAPA, Hinojosa del Duque, Spain*
- 12:30 - 12:45 Improvement of the Tagger goat for meat production. *M. Elimam. Univ. Gezira, Sudan*
- 12:45 - 13:00 Technical and socio-economic characterisation of small ruminant producing systems in Saudi Arabia: results from a survey to stockbreeders. *R.S. Aljumaah, M.A. Alshaikh, M. Ayadi, S. Sayadi. King Saud University, Riyadh, Saudi Arabia*
- 13:15 - 13:30 Poster session 3
- 13:30 - 14:00 Discussion Session 3
- 14:00 - 15:00 Lunch*
- 15.00 - 18.00 Round table. The role of farmers associations in the adaptation, testing and transfer of technologies in sheep and goats
Chairperson: D. Gabiña, IAMZ-CIHEAM, Spain
Presentations from Algeria, Morocco, France, Portugal, Spain and Tunisia have been programmed.
- 18.00 Conclusions and closing of the Seminar

13 June

Full day field trip

Languages

The working languages of the Seminar will be English and French. Simultaneous interpretation of the theatre presentations and conferences will be provided.

Seminar Proceedings

The Seminar Proceedings, including the text of the keynote lectures, theatre presentations and posters accepted by the Scientific Committee will be published in the CIHEAM journal Options Méditerranéennes. Proceedings will be in English and French.

Registration. Deadline: 31 May 2013

Registrations received after the deadline may not be accepted. By **30 April 2013** registration fees for the two days of seminar and the technical visit will be 250 euro, after which fees will be 300 euro. Fees include attendance to the Seminar, coffees and lunches, the social dinner, technical visit and a copy of the Proceedings.

Payment should be made by bank transfer to the following account:

Account holder: CENTRE INT HAUTES ETUD AGRON MEDIT INST AGRON MEDITER DE ZARAGOZA
IBAN ES60 2085 1425 5603 0018 8187
Bank Name: IBERCAJA
Swift Code: CAZRES 2Z
To be indicated on the Bank Transfer: "Tangier2013 - your surname"
Postal Address: Av. Montañana 290, 50059 Montañana (Zaragoza), Spain.

(Note: All transfer expenses must be paid by the sender)

For registration, fill out the registration and hotel form (available in MS-Word format at <http://www.iamz.ciheam.org/tangier2013>) and return it, preferably by e-mail, before 31 May 2013, to:

CIHEAM - Instituto Agronómico Mediterráneo de Zaragoza
Avda. Montañana 1005, 50059 Zaragoza, Spain
Tel: 34 976 716000 - Fax: 34 976 716001 - E-mail: iamz@iamz.ciheam.org

Accommodation. Deadline: 31 May 2013

Pre-booking at special low rates has been arranged with the Hotel Husa Solazur, Tangier. For hotel reservation, fill out the registration and hotel form (available in MS-Word format at www.iamz.ciheam.org/tangier2013).

The deadline for hotel reservation is 31 May 2013. Hotel reservations received after the deadline are not guaranteed.



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*Technology creation and transfer in small ruminants: roles of research,
development services and farmer associations*
Tangier, Morocco, 11 to 13 June 2013

Registration and hotel booking form

Deadline: 31 May 2013

(Registrations received after the deadline may not be accepted)

Name: _____ Family name: _____
Institution: _____
Postal address: _____
Tel: _____ Fax: _____ E-mail: _____

Registration fees

By **30 April 2013** registration fees for the two days of seminar and the technical visit will be 250 euro, after which fees will be 300 euro. Fees include attendance to the Seminar, coffees and lunches, the social dinner, technical visit and a copy of the Proceedings.

Hotel reservation. **Deadline: 31 May 2013** (Hotel reservations received after the deadline may not be accepted)

The hotel that has been pre-booked at a group discounted rate is Hotel Husa Solazur****, Avenue Mohamed VI, 90000 Tangier. Prices per room and night, breakfast and taxes included, are 665.40 MAD (approx. 60 euro) in Single room and 780.80 MAD (approx. 70 euro) in Double room.

Please indicate your accommodation requirements

Date of arrival: _____ Date of departure: _____ Number of nights: _____
Single room [] _____ Double room [] _____

A minimum one night's deposit must be paid at the time of booking to guarantee reservation

Payment

Should be made by bank transfer to the following account:

Account holder: CENTRE INT HAUTES ETUD AGRON MEDIT INST AGRON MEDITER DE ZARAGOZA
IBAN ES60 2085 1425 5603 0018 8187

Bank name: IBERCAJA

Swift Code: CAZRES 2Z

To be indicated on the bank transfer: "Tangier2013"

Postal address: Av. Montañana 290, 50059 Zaragoza, Spain

(Note: All transfer expenses must be paid by the sender)

The amounts to be paid are:

| | By 30 April 2013 | After 30 April 2013 |
|---|------------------|---------------------|
| Registration only | 250 euro | 300 euro |
| Registration and hotel reservation deposit (single room)* | 310 euro | 360 euro |
| Registration and hotel reservation deposit (double room)* | 320 euro | 370 euro |

*Full payment for the accommodation is to be made in Tangier upon arrival at the hotel

Please complete this form and return it together with proof of payment, preferably by e-mail, by **31 May 2013**, to: CIHEAM - Instituto Agronómico Mediterráneo de Zaragoza, Av. Montañana 1005, 50059 Zaragoza, Spain
Tel: 34 976 716000 - Fax: 34 976 716001 - E-mail: iamz@iamz.ciheam.org