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

PROGRAMME
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 Research development in goat production in the North of Morocco. M. Chentouf. INRA Tanger, Morocco
10:45 - 11:15 Poster viewing and coffee break

Oral presentations
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
12:30 - 12:45 Effect of the incorporation of saponins sources (Quillaja saponaria, Agave americana and Trigonella foenum-graecum seeds) in the diet of Sicilo-Sarde ewes on the profile of fatty acids in milk. S. Nasri, H. Ben Salem. INRAT, Tunis, Tunisia
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: M. 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. M. Rekik, H. Ben Salem. IRESA, Tunisia
**Oral presentations**

16:15 - 16:30 Livestock future in North Africa. How can scientific knowledge progress, technical innovation implementation and local empiric norms and practices be improved?  
*J. Chiche, IAV Hassan II, Rabat, Morocco*

16:30 - 16:45 Sheep breeding in the Moroccan mountains as a vehicle for economic development: Case of Azilal province.  
*M. Benbati, B. Benjelloun, L. Haounou, M. Laghmir, B. Bouanoar. INRA Tadla, Morocco*

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

17:15 - 17:30 New sheep and goat products: “Mantas” and sausages. An integrated project in co-promotion.  
*A. Teixeira, S. Rodrigues. ESA-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’B. Aït Omar. INRA, Rabat, Morocco*

17:45 - 18:00 Technology transfer in small ruminants. Case of Southern and Southern east oases of Morocco.  
*M. Ibnelbachyr, A. Chikhi, S. Zantar, E. Sekkour, A. Lberji, A. Dadouch. INRA, Errachidia, Morocco*

18:00 - 18:15 Situation actuelle et perspective de développement de l’élevage des petits ruminants dans la région Tanger Tétouan.  
*J. Jout and M.S. Laidouni, Dir. Reg. d’Agriculture de Tanger*

18:15 - 18:30 Poster session 2

18:30 - 19:00 Discussion Session 2

20:30 Social dinner

**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, V. Alary. ICARDA North Africa, Tunisia*

09:30 - 10:00 To manage livestock farming system, which tools for which goals and which users? Examples from France.  
*M. Benoit, S. Ingrand. INRA, Clermont-Ferrand Theix, France*

**Oral presentations**

10:00 - 10:15 Traditional knowledge and change of livestock herding systems in pastoral areas: what future for the local products of Djelfa region?  
*A. Mequellati, M. Kanoun, M. Abdellali-Martini, J. Huguenin, M.L. Cherfaoui, A. Ouzzane, A Benmebarak, F. Maamri. INRA Algeria*

10:15 - 10:30 Promoting native sheep breeds by autonomous production, involvement of farmers’ organization, research and market.  
*M. Djemali, S. Bedhiarf-Romdhani. INAT, INRAT, Tunisia*

10:30 - 11:00 Poster viewing and coffee break

*B. Farhat Laroussi, M. Chentouf, G. Toussaint, A. Zayed. INRA, Tangier, Morocco*

11:45 - 12:00 National sheep and goat breeding program and breeder associations’ collaboration systems of Turkey.  
*I. Daskiran, V. Ayhan. Min. Food. Agric. Livestock, of Turkey, Ankara*
12:00 – 12:15 The renewed interest for the dairy sheep breeding in Tunisia: Success of an experience in the region of Béja. **A. Brahmi, R. Khaldi, L. Rajhi, G. Khaldi. Ecole Sup. d’Agric. du Kef, Tunisia**


12:30 – 12:45 Co-constructing knowledge about relationship between rangeland feed and goat cheese characteristics. **M. Napoléone, E. Genevet, B. Martin, C. Agabriel, J.M. Vincent, S. Hulin. INRA SAD, UMR SELMET, Supagro, Montpellier, France**

12:45 – 13:00 Dissociative representations of goat farming by different actors of the argane forest area: lessons for the organization of a territorial development based on the complementarities of various activities. **J.-P. Dubeuf, A. Araba, F. Casabianca, S. Chatibi, N. Lacombe, Th. Linck, J.-M. Sorba. INRA, Corte, France**

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*

*Guest speakers:*

**S. Fagouri**, Union Maghrébine des Associations Ovines et Caprines (UMAOC) and Association Nationale Ovine et Caprine (ANOC), Morocco

**F. Pacheco**, DRAP-Norte, Portugal

**J.M. Serradilla**, Univ Cordoba, Spain

**M. Benoit**, INRA, Clermont-Ferrand Theix, France

18.00 Conclusions and closing of the Seminar

**13 June**

**Full day field trip** - Visit to Bellota experimental station (ANOC) and a cheese factory in the area of Chefchaouen
**POSTERS**

**Session 1. Evolution and efficacy of technologies in sheep and goat production systems**

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1.25 Enhancement of the motility during the liquid storage of ram semen by Argan oil
L.Allai, El Amiri, X. Druart, A. Fatet, B. Nasser
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1.26 Effect of vegetal extracts on Cocciidiosis in fattening lambs fed with concentrate
J. Le Scouarnec, G. Zenoni, J.P. Guitard, D. Marzin, A. Gueyvarch
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1.27 Factors affecting somatic cells count in milk of Murciano-Granadina goat breed
Spain

1.28 1) Response to water deprivation by lactating ewes fed spineless cactus pads
M. Sibaoueih, B. El Amiri
Morocco

1.29 Preliminary assessment of phenotypic and genotypic parameters associated with resistance to gastrointestinal parasites infestation in Burkina Faso sheep
Burkina Faso

1.30 Effet de l’utilisation des huiles essentielles (du thym, du romarin, de l’origan et du myrte) sur les propriétés physicochimiques, microbiologiques et sensorielles du fromage de chèvre frais et semi-affine
S. Zantar, M. Zeourk, M. Zahar, B. Saidi, Z. Notfia, A. Laglaoui, T. Larbi, M. Chentouf
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1.31 Adéquation des souches lactiques autochtones isolées de lait cru de chèvre pour l’élaboration du fromage semi affine
S. Zantar, H.M. Zeourk, O, El Galiou, A. Laglaoui
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Session 2. Research in sheep and goats: structures, approach, investment and results obtained

2.1 Nutritive evaluation of some browse plant species collected from Algerian arid rangelands by chemical analyses and in vitro gas production
S. Boufennara, L. Bouazza, S. López, H. Bousseboua, R. Bodas
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2.2 Investigation of pregnancy-associated glycoproteins (PAGs) by means of an enzymoimmunoassay (ELISA) sandwich kit for pregnancy monitoring in sheep
B. El Amiri, P. Delahaut, Y Colemonts, N. Melo de Sousa, J.F. Beckers
Morocco

M. Ibnelbachyr, M. Mounsif
Morocco

2.4 Caractérisation génétique des races ovines algériennes
M. Lafri, S. Harkat, M. Ferrouk, A. Routel, M. Medkour, A. Dasilva
Algeria

2.5 Modelling for sheep and goat production systems. Optimal management of small ruminants and grazing activities
Mohamed Habib Sellami
Tunisia

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

3.1 Enjeux du développement de l’élevage ovine en zones céréalières semi-arides algériennes
K. Abbas
Algeria

3.2 Technical and socio-economic characterisation of small ruminants production systems in Saudi Arabia: results from a survey to stockbreeders
R.S. Aljumaah, M.A. Alshaikh, A. Alyemni, M. Ayadi, S. Sayadi
Saudi Arabia

3.3 Plan de gestion ecosystemique : un outil pour le developpement de la filière “viande rouge ovine”
A. Bechchari, M. Mokadir, M. Cherkouk, A. Messoudi, A. Maatougui, A. Ramdane
Morocco

3.4 Caractéristiques des producteurs ovins en Algérie : cas des éleveurs de Djelfa
F.A. Belhouadjeb, F. Chehat
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3.5 Impact de surpâturage sur la dégradation des parcours steppiques Sud-oranais de Naâma (Algérie)
A. Benaradj, H. Boucherit, O. Hasnaoui, F. Albout, A. Boulassel, D. Baghdadi
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3.6 L’élevage pastoral dans la steppe sud-oranaise de Naâma
A. Benaradj, H. Boucherit, F. Albout, O. Hasnaoui, K. Mederbal, D. Bagdadi
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3.7 Empirical studies of innovation on sheep farms in eastern Poland
W. Bojar, N. Crier, F. Dinz, A. Junkszew, A. Le Scouarnec
Poland

3.8 Operation of small ruminant farms in the oasis of Tillouline, southwest Algeria
A. Boubeker, M.T. Benyoucef
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3.9 Etude de quelques ressources mobilisables pour une qualification des élevages de production de viande ovine dans la province de Boulemane
A. Boughalmi, A. Araba, M. Yessef, B. Elamiri

3.10 Approach to phenotypic characterisation of northern Morocco goat population
N. El Moutchou, A. González, K. Lairini, M. Chentouf, E. Muñoz C. González, E. Rodero

3.11 Milk production, composition of « Beni Arouss » North Moroccan local goat
S. El Otmani, H. Btissam, M. Chentouf

3.12 Amélioration du savoir faire local fromager dans la région du nord
B. Farahat Laroussi, S. Zantar, L. Toukour, M. Chentouf, A. Benkhoya

3.13 Spécificité et diversité des systèmes de production caprine et ovine dans les régions arides tunisiennes. Systèmes d’élevage de petits ruminants en Tunisie
A. Gaddour, S. Najari, M. Abdennebi

3.14 Effet du système extensif et intensif sur la qualité de la viande ovine dans les régions arides du sud tunisien. Effets du système d’élevage sur la qualité de la viande ovine
Amor Gaddour, Sghaier Najari

3.15 Rôle et place de la chèvre dans la vie des ménages du Sahel burkinabé
I. Gnanda, A. Kabore, A. Traore

3.16 Condition and perspective sheep sheep breeding in central Europe
M. Milerski, M. Margetin, F. Ringdorfer, F. Diniz, T. Gruszecki, A. Junkuszew, W. Bojar, F.J. Lopes de Sousa

3.17 Caractérisation phénytotique de la population caprine locale “Beni Arrous”
B. Hilal, S. El Otmani, M. Chentouf, I. Boujenane

3.18 Adaptation des indicateurs FAO-CIHEAM au système d’élevage caprin intensif du Sud-Est marocain (Quarzazate)
M. Ibnelbachyr, M. Chentouf, M. Benider, A. Elkhettaby

3.19 L’élevage pour la production des viandes rouges dans les systèmes irrigués au sud-est de la Tunisie : importance et cohabitation future
M. Jaouad, R. Sadraoui, K. Gley

3.20 Caractérisation et typologie des systèmes d’élevage ovin pastoral dans la région sud-ouest de la Tunisie
R. Sadraoui Daly, M. Jaouad, K. Gley

3.21 Typologie du système d’élevage ovin dans le gouvernorat de Siliana. Influence du pâturage sur la pratique de l’élevage
T. Jemaa, T.Najar, J. Huguenin

3.22 Polish experience in introduction of lamb meat to the local market
W. Bojar, F. Diniz, T. Gruszecki, A. Junkuszew

3.23 Caractérisation de l’élevage caprin dans la région montagneuse de Kabylie en Algérie
S.A. Kadi, F. Hassini, N. Lounas, A. Mouhous

3.24 Les éleveurs de Djelfa (Algérie) face à la sécheresse et aux incertitudes sur les ressources pastorales : réactions et pratiques adaptatives
M. Kanoun, A. Meguellati-Kanoun, J. Huguenin

3.25 Conduite des élevages des petits ruminants dans la zone centre-est du Maroc : cas de la commune rurale de Tissaf de la province de Boulemane
A. Anjar, M. Mounsif, N. Mokhtari, A. Keli

3.26 Towards a better understanding of adaptation of local breeds to livestock farming systems: an exploratory methodological proposal
J.C. Paoli, A. Viollet, P.M. Santucci, J.Y. Gambotti, A. Lauvie

3.27 Assessment of agriculture technologies for use in arid regions of Egypt
H.R.M. Metawi

3.28 Genetic structure of two minor Spanish goat breeds: Blanca Andaluza and Blanca Celtiberica
M.E. Muñoz-Mejías, A. González, N. Elmoutchou, E. Rodero

3.29 Consumer preferences upon the traditional Andalusian cheese varieties
F.A. Ruiz, L. Navarro García

3.30 Diagnosis of forage systems in the semi-arid area of Sétif
N. Tedjari, K. Abbas, T. Madani

3.31 Goat farming in state forest areas in Turkey: lessons learnt over ten years
A. Tolunay, V. Ayhan, M. Yilmaz, C. Balabanli