



The 5th Conference of the International
Society of Camelid Research and
Development
ISOCARD 2018



*Institut Agronomique et Vétérinaire Hassan II,
Rabat, Morocco*

Organize

The 5th Conference of ISOCARD

**“Recent advances in camelids
biology, health and production”**

Presentation and Call for abstracts



Palais des Congrès, Laâyoune, Morocco

12th-15th November 2018

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1. Introduction of ISOCARD and the 5th Conference

The creation of an International Society that could bring camelid scientists together was first suggested and discussed during the international conference on the young camel held in Ouarzazate, Morocco in 1999. The meeting was jointly organized by Hassan 2nd Institute of Agronomy and Veterinary Medicine (IAV Hassan II, Morocco) and the Centre for International Cooperation in Agronomic Research for Development (CIRAD-EMVT, France). Several other discussions and correspondence followed the Morocco meeting and founders of International Society of Camelid Research and Development (ISOCARD) were able to successfully organize the first international meeting in Al-Ain (UAE) in 2006.

Three other editions of conferences were organized by ISOCARD. The 2nd conference at Djerba, Tunisia (2009), the 3rd in Muscat, Oman (2012) and the 4th in Al Maty, Kazakhstan (2015).

The forthcoming **5th conference of ISOCARD (ISOCARD-2018)** will take place in **Laâyoune, Morocco** from **12-15th November 2018** under the major topic

“Recent advances in camelids: biology, health and production”

Topics of ISOCARD 2018

The conference will be centered on 5 main research topics :

- a-** Recent advances in camelid biology
- b-** Meat, Milk and other production systems and related technologies
- c-** Camelid health: Recent advances in epidemiology, diagnostic and control of old and emerging diseases
- d-** Camelids and the environment: Impact of climatic changes on camelids population
- e-** Socio-economic challenges in camelid production: Effect of human population dynamics and preservation of ancestral traditions and knowledge

On the sidelines of the conference 5 workshops will be organized a day before the official start.

Who's the organizer of ISOCARD-2018

This major scientific event, during which more than 350 camelid scientists from different fields and horizons are expected to attend, will be organized jointly by ISOCARD and the ***Institut Agronomique et Vétérinaire Hassan II, Rabat, Morocco*** which is an internationally recognized institution for higher education and research in Agriculture.

- Under the high patronage of His Majesty King Mohammed VI
- With the support of the Ministry of Agriculture, Fisheries, Rural Development, Water and Forestry (*Ministère de l'Agriculture, de la Pêche Maritime, du Développement Rural et des Eaux et Forêts*)
- With the contribution of the following institutions :
 - The Wilaya and the Regional Council of Laâyoune-Sakia El Hamra
 - Phosboucraa Foundation, Morocco
 - Southern Provinces Development Agency

- Regional Chambers of Agriculture, and Industry and Trade of Laâyoune-Sakia El Hamra, Dakhla-Oued Eddahab and Guelmim-Oued Noun,
- Food and Agriculture Organization of United Nations (FAO)
- World Organization for Animal Health (OIE)

2. Organizing Committees

Local Organizing Committee			
Honorary Chairman: Ali HAMMANI (IAV Hassan II, Director)			
Chairman: Abdelmalek SGHIRI (IAV, Morocco) - Co-Chairman: Faouzi KICHOU (IAV, Morocco)			
Members	Inst., Country	Members	Inst., Country
El Hassane ABDENNEBI	IAV Hassan II	Bernard FAYE	France
Rachid ACHAABAN	IAV Hassan II	Ikhlass EL BERBRI	IAV Hassan II
Hicham AIT LBACHA	IAV Hassan II	Khalid ESSAMADI	FST-Settat
Hassan AKDIM	DRA-Dakhla	Abderahmane LYAMANI	FPB-Laâyoune
Said AQUARIAL	DRA-Laâyoune	Abdelaziz RAHO	FPB-Laâyoune
Abdelilah ARABA	IAV Hassan II	Bachir SAOUD	MAPMDREF
Mohammed BOUSLIKHANE	IAV Hassan II	Ahmed TIBARY	WSU, USA
Abdellah BRROU	DRA-Laâyoune	Safya TOUZANI	ONSSA-DR7
Mohamed DERFAOUI	DRA-Guelmim		

Scientific Committee			
Members	Inst., Country	Members	Inst., Country
Said ALALI	IAV, Morocco	Kelly FARNSWORTH	WSU, USA
Abdulwahhab ALJUBOORI	UAE	Abdelhai GUEROUALI	IAV, Morocco
Faisal ALMATHEN	UKF, KSA	Mohamed HAMMADI	IRA, Tunisia
Abdelilah ARABA	IAV, Morocco	Isam KADIM	Sultanat Oman
Rafat AL-JASSIM	UQ, Australia	Hakim KARIB	IAV, Morocco
Mohamed BENGOUMI	FAO, Tunis	Wael KHAMAS	ISU, USA
Jaouad BERRADA	IAV, Morocco	Gaukhar KONUSPAYEVA	U. A.-F., Kazakhstan
Ismail BOUJENANE	IAV, Morocco	Marcelo MIRAGAYA	UBA, Argentina/USA
Chris CEBRA	OSU, USA	Peter NAGY	UAE/Hungary
Elena CIANI	U. Bari, Italy	Hamid SAHIBI	IAV, Morocco
Khalid EL ALLALI	IAV, Morocco	Julian SKIDMORE	CRC, UAE
Mehdi ELHARRAK	OIE, Morocco	Ahmed TIBARY	WSU, USA
Abdelaziz EL HRAIKI	IAV, Morocco	Robert J. VAN SAUN	PSU, USA
Mohamed EL KHASMI	UH II, Morocco	Sumant VYAS	NRCC, India
Bernard FAYE	France	Habil. U. WERNERY	CRV, UAE

3. The Congress Venue - Palais des Congres

The Conference will be held at the Convention centre “**Palais des Congrès**” in Laâyoune (**PCL**). It provides access to the main conference room which will be used for the plenary and regular sessions, as well as a poster and an exhibition area. *The PCL* is located in the center of the city of Laâyoune 3 km away from the Laâyoune International Airport Hassan 1st. Its infrastructure makes of the “*Palais des Congrès*” the ideal place to host the 5th ISOCARD-2018.

4. Preliminary conference program

a. Pre Program overview

November 11th	Workshops	
November 12th	Opening ceremony	
	Inaugural Session	
	Key-note lecture	
	Poster Session	
	Session A	
November 13th	Key-note lectures	
	Oral presentations :	
	Poster Session :	
	Session B1 -	Session C1 -
	Key-note lectures	Key-note lectures
	Oral presentations :	Oral presentations :
	Poster Session :	Poster Session :
November 14th	Session B2 -	Session C2 :
	Key-note lecture	Key-note lectures
	Oral presentations	Oral presentations :
	Poster Session	Poster Session
	Session B3	Session C3
	Key-note lecture	Key-note lectures
	Oral presentations :	Oral presentations :
Poster Session :	Poster Session :	
November 15th	<i>Field visit & lunch</i>	
	<i>Gala Dinner</i>	
	Session D	Session E
	Oral presentations	Key-note lectures
	Oral presentations	Oral presentations
	<i>Closing ceremony</i>	
General assembly of ISOCARD		

During the Conference, there will be Opening and Closing ceremonies, and inaugural and plenary sessions:

- **Key-note lectures** will take place at 8:30 in the morning and 14:00 in the afternoon.
- **Oral presentations** will be held Monday through Thursday from 8:30 to 18:00. Details of each session will be depicted in the Congress Programme and Proceedings that will be included in the Conference kit.
- **Poster sessions** will take place in the PCL from Monday to Thursday and will be on display from 9:30 to 17:00 and the authors are expected to be present at their posters during the 3 poster visiting sessions from 13:00 to 14:00 to discuss their work and respond to any questions.
- **Workshops:** On the sidelines of the conference, 5 technical workshops on different aspects of dromedary health and production shall be organized and delivered by eminent specialists. For registration purposes, further details about the content and program of the workshops will be sent to participants.

b. Preliminary Scientific Program

November 12th	
09:00 - 10:00	Opening ceremony
	Inaugural Session
10:00-10:45	Key-note lecture : Recent progress and future prospects in camelid biology and medicine Ahmed Tibary (<i>College of Veterinary Medicine, Washington State University, USA</i>)
10:45 -11:15	Coffee break
11:15- 13:00	Poster Session :
	Session A - Recent advances in camelid biology
14:00 -14:30	Key-note lecture 1 : Camel pastoralism Bernard Faye (<i>Intern. Cooper. Centre Agro. Res. Develop. - CIRAD, France</i>).
14:30-15:30	Oral presentations
15:30-15:45	Coffee break
15:45-16:15	Key-note lecture 2 : Current advances in camel genomics Elena Ciani (<i>Università degli Studi di Bari Aldo Moro, Bari, Italy</i>)
16:15-17:30	Oral presentations
17:30-18:00	Poster Session :
November 13th	
	Session B1 - Meat, Milk and other production systems and related technologies (1)
	Session C1 - Camelid health - Recent advances in epidemiology, diagnostics and control of old and emerging diseases
08:30-09:45	Key-note lecture : Nutrition and prevention of metabolic diseases Robert J. Van Saun (<i>Depart. Vet. Biomed. Sci., Pennsylvania State Univ., USA</i>)
	Key-note lecture 1 : Disorders of Energy Metabolism Chris Cebra (<i>College Vet. Med., Oregon State Univ., USA</i>)
09:45-10:15	Coffee break
10:15-12:30	Oral presentations :
13:30- 14:00	Poster Session :
	Session B2 - Meat, Milk and other production systems and related technologies (2)
	Session C2 : Camelid health - Recent advances in epidemiology, diagnostics and control of old and emerging diseases
14:00 -14:45	Key-note lecture : New opportunities in the camel milk valorization Gaukhar Konuspayeva (<i>Al-Farabi Kazakh Nat. Univ., Kazakhstan</i>)
	Key-note lecture : Advances in fracture repair in camelids. Kelly Farnsworth (<i>College Vet. Med., Washington State Univ., USA</i>)
14:45-15:15	Coffee break
15:15-17:00	Oral presentations
November 14th	
	Session B3 - Meat, Milk and other production systems and related technologies (2)
	Session C3 - Camelid health - Recent advances in epidemiology, diagnostics and control of old and emerging diseases

08:30-9:30	Key-note lecture : Advances in camelid reproduction Marcelo Miragaya (<i>Faculty Vet. Sci., Univ. Buenos Aires, Argentina</i>)	Key-note lecture : Camel and emerging transboundary diseases Mohammed Bengoumi (<i>FAO, Regional Office, Tunis</i>)
09:45-10:15	Coffee break	
10:15-10:45		Key-note lecture : Bacterial zoonosis and more particularly Q fever and brucellosis in camelids Habil. U. Wernery (<i>Central Veterinary Research Laboratory, United Arab Emirates</i>)
11:00-12:30	Oral presentations :	
12:30-18:00	Field visit & lunch	
20:00-23:00	Gala Dinner	
November 15th		
	Session D - Camelids and the environment: Impact of climatic changes on camelids population	Session E - Socio-economic challenges in camelid production : Effect of human population dynamics and preservation of ancestral traditions and knowledge
08:30- 10:30	Oral presentations :	
10:30-11:00	Coffee break	
11:00 -12:30	Oral presentations :	
15:00 -16:00	Closing ceremony	
17:00-18:00	General assembly of ISOCARD	

c. Program of workshops

November 11th	
Workshops 09:00- 16:00	<u>Workshop 1:</u> Use of genetic tools developed by IGCIC (E. CIANI) <u>Workshop 2:</u> Necropsy technique of the camel –theory and practice (F. KICHOU) <u>Workshop 3:</u> Laboratory Diagnosis of emerging parasitic and infectious diseases (U. WERNERY) <u>Workshop 4:</u> Camel milk and cheese processing (G. KONUSPAYEVA & B. FAYE) <u>Workshop 4 :</u> Camel dentistry (K. FARNSWORTH)

5. Submission of abstracts for oral presentations or Posters

Scientists are invited to submit abstracts on their research or clinical/field observations on camelids (Camels, alpacas, llamas, vicuna and guanacos) for oral or poster presentation.

Carefully read the guidelines depicted below on this 2nd announcement/call of abstracts before submitting your abstract. An e-mail acknowledging receipt of your abstract will be returned to your e-mail address once your abstract received. If you do not receive this e-mail, it means that your abstract needs to be re-submitted.

Presentations are invited in the following topics (see also the scientific program):

Sessions	Topics
A-	Recent advances in camelid biology.
B-	Meat, Milk and other production systems and related technologies.
C-	Camelid health: Recent advances in epidemiology, diagnostics and control of old and emerging diseases.
D-	Camelids and the environment: Impact of climatic changes on camelids population.
E-	Socio-economic challenges in camelid production: Effect of human population dynamics and preservation of ancestral traditions and knowledge.

Guidelines for abstract submission

Font type & size: Times New Roman, size 12.

Title: The title should be bold, font size 12, centered, with no full stop at the end.

Authors: Presenting author's name should be underlined. Author names should be in regular font, as surname following the first name initial separated by comma. Author names should be separated by a semi colon. Where authors are from a number of different institutions, the appropriate institution number from the affiliation list should be given as a super script number immediately after each author's name.

Affiliations should be in regular font, centered and should include department, institute and country. Each institute should appear in the order used against the author names and show the appropriate super script number.

Formatting/Main text: Maximum length of the text is 2600 characters. Please use regular font setting and single line spacing. The text should be justified, without hyphenating words at line breaks. Make sure that formulas and special characters appear correctly.

The authors are invited to fill the registration and abstract submission form (in Word document format) attached to this call of abstract. The Abstract & registration form should be submitted by e-mail to Abdelmalek SGHIRI (a.sghiri@iav.ac.ma) in **no later than Marsh 31st, 2018**. The subject of the message should include 5th Conference of ISOCARD and the name of presenting author. Please CC to morocco.isocard2018@iav.ac.ma

After revision by scientific committee, authors, whom abstracts will be accepted for either oral or poster presentation will be notified by e-mail by **1st May 2018** and asked to submit **before 15th August 2018** a full manuscript for publication in the Congress Proceedings which will be edited in a special issue of "Journal of Camelid Science".

This congress document will be made available to registered delegates attending the Congress. The schedule of oral and poster presentations will be notified to the participants on the congress website as well as in the final program book.

Important deadlines:

- ✓ Deadline for abstract submission: **31st of Mars 2018**
- ✓ Deadline for notification of authors: **1st of Mays 2018**
- ✓ Deadline for Full manuscript submission: **15th of August 2018**

Registration fees

Registration fees include following services: Proceeding of the conference in a special issue in collaboration with “Journal of Camelid Science” and “Journal of Agronomic and Veterinarians Sciences” including full papers of keynote speakers, oral presentations and abstracts; all coffee-breaks, field trip with lunch and gala dinner.

Category of participants	Early fees (Before 31 st of May)	Late fees (After 31 st of May)
ISOCARD member	100 US\$	150 US\$
Non-ISOCARD member	250 US\$	300 US\$
Student/Resident	50 US\$	75 US\$
Local students	20 US\$	30 US\$
ISOCARD Membership fees	100 US\$	100 US\$
ISOCARD Membership fees for students	50 US\$	50 US\$
Accompanying persons	100 US\$	150 US\$

For all ISOCARD members, triennial fees to society can be paid during the conference at November 2018.

Authors will be notified for the payment of registration fees up on approval of abstracts by the Scientific Committee and receipt of acceptance letter.

Accommodation

Attendees can choose from several hotels for accommodation (Further details will be made available to participants in due time).

Hotels	Approximate price (\$US/ person/ night, BB)	
Single room	4 stars	62-79
	3 stars	22-45
	2 stars	18-28
	1 star	17
	Aparthotel	62
Double room	4 stars	69-96
	3 stars	30-61
	2 stars	30-37
	1 star	22
	Aparthotel	74
Room suite	Small	156
	Large	220

6. Congress Languages

The official working language of the 5th ISOCARD-2018 is English. English to Arabic translation will be provided for opening and closing ceremony, inaugural and plenary sessions, only.

7. Exhibition Area and Exhibitor Pre-Program

A 600 m² exhibition area will be set up nearby the PCL and equipped with all necessary facilities in order to best meet exhibitors and visitors requirements and needs for a successful meeting. A technical exhibition file including *exhibition booth booking form and payment details* will be made available to exhibitors.

8. Press Coverage

Official representatives of the national and international press who are interested in the conference press coverage are welcomed to be present at the Conference and may attend regular and plenary sessions, the opening and closing ceremonies. They need to register by contacting the congress secretariat. A technical press file will be prepared and made available to the press professionals.

9. Social Program

d. Transportation

Upon arrival at Casablanca International Airport Mohamed V and Laâyoune International Airport Hassan 1st, ISOCARD-2018 participants will get assistance, information and directions on how to get to the City of Laâyoune and the Conference venue.

ISOCARD-18 organizers will provide a welcome desk at the airport to assist the meeting participants. Transportation from Laâyoune International Airport Hassan 1st to the city of Laâyoune will be provided for all registered participants.

Local transportation from Laâyoune International Airport Hassan 1st to hotels and the meeting venue will be arranged.

e. Lunches

Lunches will be served on site each day of the congress at The PCL from 12:00 to 14:00. Lunch tickets for Monday through Thursday will be included in the congress kit for the registered participants.

f. Coffee and tea breaks

Tea and coffee will be served each day according to the scheduled breaks mentioned in the Preliminary Scientific program.

g. Receptions and entertainment

- **Welcome reception - Sunday, November 11th (19:00)**

A welcome reception will be held at the poster/exhibition area of the CPL. The variety of the Moroccan gastronomy is ranked among the first three grand cuisines of the world. This reception affords the attendees the opportunity to meet their peers and to start the days of exchanging ideas, views and knowledge in an enchanting setting.

- **Opening ceremony - Monday, November 12th:**

The opening ceremony will be held in Salle des Conférence of Palais des Congrès. There will be official speeches and interludes. This will introduce the participants to some of the cultural aspects of Morocco.

- **Closing ceremony - Thursday 15th (15:00-16:30) :**

The closing ceremony will be the stylish conclusion to what every one hope to be an enlightening event. It will be the occasion to think about our accomplishments and to introduce the next selected country for the 6th ISOCARD Congress.

- **Gala dinner - Wednesday November 14th (19:00):** to celebrate the 5th anniversary of the ISOCARD Conference, a Gala dinner will be offered to all Congress participants.

h. Tours and excursions

The official congress travel agency will organize an excursion during the congress for participants and accompanying persons to discover Laâyoune and its surrounding region. Post conference special tours and excursions will be suggested to participants in the Final program.

10. About Morocco, Laâyoune and Sakia El Hamra region

Morocco

An old and rich history

Morocco is an ancestral and dynamic country, with a young population but a rich and old history. Its historical legitimacy is based on a 14th centuries old state and this is the starting point. It is also the heir of a model, multicultural, multiethnic and multi-denominational civilization.

A specific geographical location

Morocco is located in the northwest of the African Continent, on the strait of Gibraltar, 15 km from Europe, at the crossroads of influences and exchanges between the East and the West, between countries from the North and those from the South. Easy to get access to, it is 6 hours from New York, 4 hours from Berlin and Rome, 3 hours from Paris and London, or Tunisia, 2 hours from Algeria and 1 hour from Madrid and Lisbon. Its landscape is diversified, with an Atlantic and a Mediterranean cost, snow-covered mountains and deserts, fertile plains and oasis.

Open-minded inhabitants

Women and men are proud of their origins and open to the world, with an innate sense of hospitality, very welcoming and respectful towards others. The three important monotheistic religions are represented in Morocco where tolerance meets with conviviality.

A splendid culture

In Morocco, you find a rich architecture, an abundance of monuments, an artistic refinement, a liveliness of handicraft, a spirit of creativity, a popular culture, important international meetings, a recognized gastronomy, in one word, a real art of life.

A modern country

A go-ahead young population, the practice of foreign languages (*french, english, spanish*), the attraction of technology are the major winning cards for the Kingdom. Morocco is a pioneer in the technical field throughout history (*aircraft, architecture, new technologies*).

It has chosen democracy, political pluralism and market economy. It has integrated globalization by putting its legislation and its important economic sectors to fall in with Moreover, it has signed free trade agreements with the United States of America, Turkey, 3 Arab countries (*Jordan, Tunisia, Egypt*), and the European Union with which it has just obtained a specific partnership « Advanced Statute ».

A safe country

A peaceful country, a tolerant population, the State of rights, an experience of great gatherings, tried supervision and control structures ensuring a quiet relaxed stay.

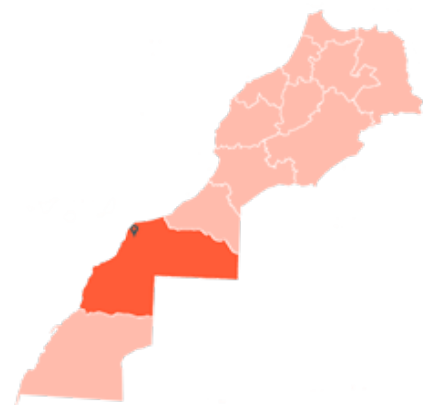
An active participation to the medical research

Morocco possesses a well-organized health care system where public and private sectors collaborate and complete each others. Concerning research, especially regarding human and animal health, agricultural and engineering sciences recognized skills cooperate in the progress made at the national and international level. Teaching, training, research and follow-up in the veterinary and animal production fields are provided by women and men of high level inside bodies, institutions or private consulting offices.

Discovering Laâyoune and Essakia El Hamra region

At the edge of the Atlantic Ocean and at the gates of the Sahara, the region of Laâyoune-Sakia El Hamra, also known as "the region of the sands", possesses the perfect combination between beach sand and desert sand and its welcomes visitors with a naturally splendid and varied setting.

This region is mostly located in southern Morocco. It is bounded on the south by the Eddakhla-Oued Eddahab region, on the north by the Guelmim-Oued Noun region, on the east by Mauritania and on the west by the Atlantic Ocean. The Laâyoune-Sakia El Hamra



region is home to 367,758 inhabitants, or 1.1% of the national population, covering a total area of 139,480 km², or 19.62% of the national surface.

This region is a good example of the regional development, benefiting not only from an administrative favor and tax concessions granted to entrepreneurs and investors, but also this city began to change its urban image, based on population growth and its new port.



Want to discover Laâyoune? There are a thousand ways to do it. At the edge of the Atlantic Ocean and at the gates of the Sahara, Laâyoune "the city of sands" in which the sand beach and the desert sand meet, welcomes its visitors in a natural splendid and varied setting. In less than a century, Laâyoune, has set itself as the capital of the Sahara region, has developed rapidly, becoming the first economic and administrative pole of the Saharan Provinces.

Laâyoune is the largest city in the Moroccan Sahara. It is located on the Atlantic coast, 500 km south of Agadir and 400 km west of Tindouf, on the road to Dakhla. It is controlled and administered by Morocco since 1975. It has a population of 200,000 inhabitants. Do not miss the beach of Foug El Oued in Laâyoune-Plage: Located on the edge of the town of Laâyoune, it extends to the Atlantic Ocean, the Souke dromedaries:

This popular district is experiencing intense economic activity, by the abundance of shops, by an extraordinary craftsmanship, and by its large market, the National Cultural Center: Located in the place of Abdelaziz, this center includes a music room as well as a large reading room. The books contained there are translated into several languages, including Arabic, French, English and Spanish. You can also visit Place du Méchouar: It is a very large square decorated with four magnificent monuments at each corner of the place. Laâyoune took advantage of the development of the southern provinces as well as numerous investments.