

UNDER THE AUSPICES OF THE MINISTRY OF AGRICULTURE AND FISHERIES MOROCCO



Ministère de l'Agriculture et de la Pêche Maritime



# 2016 International Conference on PULSES

FOR HEALTH, NUTRITION AND SUSTAINABLE AGRICULTURE IN DRYLANDS

Marrakesh, Morocco, 18-20 April, 2016

## CONFERENCE PROGRAM





# AGENDA

Date/Time	Activity	Speaker
<b>April 17, 2016</b>		
<b>17:00-19:00</b>	Evening registration	
<b>April 18, 2016</b>		
<b>08:00-08:50</b>	Registration	
<b>08:50-10:00</b>	Conference Opening Ceremony	
<b>08:50-09:30</b>	Welcome addresses	<ul style="list-style-type: none"> <li>- H.E. Mr. Aziz Akhennouch, Minister of Agriculture and Marine Fisheries, Morocco</li> <li>- Michael George Hage, FAO Representative to the Kingdom of Morocco</li> <li>- Representative of Fondation OCP</li> <li>- Périn Saint Ange, IFAD</li> <li>- Shoba Sivasankar, CRP Grain Legumes</li> <li>- Margret Thalwitz, Board Chair-ICARDA</li> <li>- Mahmoud Solh, ICARDA</li> </ul>
<b>09:30-10:00</b>	KN01: Soil Health and Environmental Management for Sustainable Agricultural Production System	Rattan Lal, Ohio State University, USA
<b>10:00-10:30</b>	<b>Coffee Break ☕</b>	
<b>10:30-12:00</b>	<b>Session 1, Plenary: Global Pulses Scenario – Production, Consumption and Trade</b>	
	Chair: Périn Saint Ange Associate Vice-President, IFAD Co-Chair: Andrew Jacobs, Director of AGT Foods, GPC	
<b>10:30-11:00</b>	KN02: Global pulses scenario – production, consumption and trade	Pramod K Joshi, IFPRI
<b>11:00-11:30</b>	KN03: Opportunities for enhancing pulse production to bridge demand-supply gap	Mahmoud Solh, ICARDA
<b>11:30-12:00</b>	KN04: Status and prospects of pulses in Morocco	Nabil Chaouki, Ministry of Agriculture, Morocco

<b>12:00-13:30</b>	Panel discussion: Opportunities for bridging demand-supply gap in pulses	Representatives from Government, FAO, IFAD, CRP-GL, ICARDA, NARS, private sector (GPC), farmers
<b>13:30-14:30</b>	<b>Lunch 🍴</b>	
	CONCURRENT SESSIONS 2 & 3	
<b>14:30 – 16:00</b>	<b>Session 2: Pulses – Global Health, Nutrition and Gender</b>	
	Chair: Riccardo Del Castello, Communication for Development Officer, FAO Co-Chair: Nawfel Roudies, Director, ADP, Fondation OCP	
<b>14:30-15:00</b>	KN05: Potential of pulses in the context of global human health challenges	Dilrukhi Thavarajah, Clemson University, USA
<b>15:00-15:15</b>	OP01: Alleviating micronutrient deficiency through iron fortification	Rajib Podder, UoS, Canada
<b>15:15-15:30</b>	OP02: Lupins – a protein crop able to perform in drylands	Federico Andreotti, Netherlands
<b>15:30-15:45</b>	OP03: Lentil - A dietary solution to arsenic poisoning in Bangladesh	Judit Smits, University of Calgary, Canada
<b>15:45-16:00</b>	OP04: The role of women and the youth in pulses value chains	Esther Mwhiki Njuguna, CRP-GL, Kenya
<b>14:30-16:00</b>	<b>Session 3: Innovations in Pulses Genomics</b>	
	Chair: Fred Muehlbauer, Research Geneticist, WSU, USA Co-Chair: Michael Baum, Director, BIGM, ICARDA	
<b>14:30-15:00</b>	KN06: Genome sequencing, re-sequencing and molecular breeding for pulses improvement	Rajeev K Varshney, ICRISAT
<b>15:00-15:15</b>	OP05: A role for genetics in the era of vast sequence datasets	Noel Ellis, New Zealand
<b>15:15-15:30</b>	OP06: The lentil genome – from the sequencer to the field	Kirstin Bett, University of Saskatchewan, Canada
<b>15:30-15:45</b>	OP07: Genome-wide SNP identification, linkage map construction and QTL mapping of mineral nutrients in pea	Rebecca McGee, USDA, USA

<b>15:45-16:00</b>	OP08: Deploying genome sequence information for pigeonpea improvement	Rachit K Saxena, ICRISAT
<b>16:00-16:30</b>	<b>Coffee break and Poster Session</b> ☕ 📌	
	CONCURRENT SESSIONS 4 & 5	
<b>16:30-18:00</b>	<b>Session 4: Pulses and Natural Resource Management</b>	
	Chair: Andrew Noble, Deputy Director General– Research, ICARDA Co-Chair: Abdallah Abouddar, ENA-Meknes	
<b>16:30-17:00</b>	KN07: The next step to increase legume nitrogen fixation: Host plant improvement	Thomas Sinclair, NCSU, USA
<b>17:00-17:15</b>	OP09: A plus for pulses: symbiotic nitrogen fixation for sustainable intensification in the drylands	Rachid Serraj, CGIAR-ISPC, Italy
<b>17:15-17:30</b>	OP10: Soil Health, the Missing Link in Sustainable Pulse Production in India	Ashok K Patra, ICAR-IISS, India
<b>17:30-17:45</b>	OP11: Interaction of nitrogen fixation and water use efficiency in chickpeas	Carola Blessing, Australia
<b>17:45-18:00</b>	OP12: Phenotypic and genotypic diversity of Rhizobia nodulation in lentil and chickpea in Morocco and their utilization	Imane Thami-Alami, INRA, Morocco
<b>16:30-18:00</b>	<b>Session 5: Pulses Genetic Resources: Conservation and Utilization</b>	
	Chair: Shoba Sivasankar, Director, CRP Grain Legumes Co-Chair: Janny van Beem, GCDD	
<b>16:30-17:00</b>	KN08: Plant genetic resources for climate resilient crop cultivars for food and nutrition	Hari Upadhyaya, ICRISAT
<b>17:00-17:15</b>	OP13: Approaches for efficient collecting and mining pulses genetic resources	Ahmed Amri, ICARDA
<b>17:15-17:30</b>	OP14: Walking on the wild side – expanding genetic diversity for future lentil breeding	Bert Vandenberg, University of Saskatchewan, Canada

KN: Keynote Speaker  
OP: Oral Presentation Speaker

<b>17:30-17:45</b>	OP15: Mining natural genetic variation from old and new germplasm collections for chickpea breeding	R. Varma Penmetsa, UC-Davis, USA
<b>17:45-18:00</b>	OP16: Molecular approach for studying genetic diversity and population genetic structure of Asiatic Vigna accessions	Aditya Pratap, IIPR, India
<b>19:30-21:30</b>	<b>Gala dinner</b> 🍴 🍷	
<b>April 19, 2016</b>		
<b>08:30-11:00</b>	Side Event: Practical Issues in Pulses Production and Marketing in Morocco Organizer: Moroccan Society of Agronomy and Horticulture (SMAHo)	
<b>08:30-11:00</b>	<b>Session 6: Plenary - Opportunities for Enhancing Pulses Production</b>	
	Chair: Mahmoud Solh, Director General, ICARDA Co-Chair: Rachid Dahan, Secretary General, INRA	
<b>08:30-09:00</b>	KN09: Opportunities and limitations of multidimensional crop improvement in grain legumes to support increased productivity in mixed crop livestock systems	Michael Blummel, ILRI, Ethiopia
<b>09:00-09:15</b>	OP17: Rice fallow – an opportunity for horizontal expansion of pulses	Masood Ali, ICAR, India
<b>09:15-09:30</b>	OP18: Varietal and seed use of faba bean in Ethiopia: Implication for the national seed system	Dawit Alemu, EIAR, Ethiopia
<b>09:30-09:45</b>	OP19: Increased adoption of modern technologies and competitiveness of legumes value chain players through the Private Public Partnership	Mphatso Dakamau, AICC, Africa
<b>09:45-10:00</b>	OP20: Plant-pollinator interplay in pulses in the context of ecosystem health	María José Suso, CSIC, Spain
<b>10:00-10:15</b>	OP21: Ensuring seed security and production of rainfed pulses in semi-arid tropics	Ch Ravinder Reddy, MSSRF, India

KN: Keynote Speaker  
OP: Oral Presentation Speaker

<b>10:15-10:30</b>	OP22: Pulse suitability assessment for sustainable productivity of Moroccan drylands	Rachid Moussadek, INRA, Morocco
<b>10:30-10:45</b>	OP23: Impacts of improved legume varieties on cereal yield, household income and food self-sufficiency in the Ethiopian highlands	Solomon Tiruneh, AARI, Ethiopia
<b>10:45-11:00</b>	OP24: Spatial big data analytics for intensification of pulses	Chandrasekhar Biradar, ICARDA
<b>10:30-11:00</b>	Linking FAO event on Soils & Pulses (Rome) and ICARDA/IFAD event on Pulses (Marrakesh)	Eleonora Lago (IFAD) & Mahmoud Solh (ICARDA)
<b>11:00-11:30</b>	<b>Coffee break ☕</b>	
	CONCURRENT SESSIONS 7 & 8	
<b>11:30-13:00</b>	<b>Session 7: Innovation in Pulses Breeding</b>	
	Chair: Bert Vandenberg, University of Saskatchewan Canada Co-Chair: Clare Coyne, USDA, USA	
<b>11:30-12:00</b>	KN10: Enhancing genetic gains through innovations in breeding approaches	William Erskine, UWA, Australia
<b>12:00-12:15</b>	OP25: Transgenics – a way forward for managing key stresses in pulses	NP Singh, IIPR, India
<b>12:15-12:30</b>	OP26: Exploitation of heterosis for a major breakthrough in pulses	CV Sameer Kumar, ICRISAT
<b>12:30-12:45</b>	OP27: Breeding pulses for nutritional quality with emphasis on bio-fortification	Ashutosh Sarker, ICARDA
<b>12:45-13:00</b>	OP28: Association mapping for flowering time in lentil	Jitendra Kumar, IIPR
<b>11:30-13:00</b>	<b>Session 8: Innovation in Productivity Management</b>	
	Chair: Mohamad Badraoui, Director General, INRA Co-Chair: Masood Ali, Ex Director, IIPR, India	

<b>11:30-12:00</b>	KN11: Innovations in productivity management of pulses	KHM Siddique, UWA, Australia
<b>12:00-12:15</b>	OP29: Exploring management options to increase pulse production by using simulation models	Hélène Marrou, SupAgro, France
<b>12:15-12:30</b>	OP30: Integration of pulses for more productive cereal systems with lower environmental footprints	Yashpal Singh Saharawat, ICARDA
<b>12:30-12:45</b>	OP31: Innovation platform approach and agricultural food legumes value-chain improvement in Morocco	El Houssine El Mzouri, INRA-Morocco
<b>12:45-13:00</b>	OP32: Innovative techniques for pulses improvement and adoption of newer technologies with reference to climate change	Om Gupta, JNKVV, India
<b>13:00-14:00</b>	<b>Lunch time 🍴</b>	
	CONCURRENT SESSIONS 9 & 10	
<b>14:00-15:30</b>	<b>Session 9: Innovation in Abiotic Stress Management</b>	
	Chair: Prof. KHM Siddique, Director, Institute of Agriculture, UWA, Australia Co-Chair: Prof. Ahmed Bamouh, Professor, IAV-Hassan II	
<b>14:00-14:30</b>	KN12: Impact of high temperature stress on pulses	PV Vara prasad, KSU, USA
<b>14:30-14:45</b>	OP33: Dissecting water saving traits in pulses: efforts and future trends	Michel Ghanem, ICARDA
<b>14:45-15:00</b>	OP34: Crop improvement in faba bean towards drought stress through the exploitation of genetic diversity	Lamiaie Ghaouti, IAV Hassan II, Morocco
<b>15:00-15:15</b>	OP35: Combined effect of drought and heat stresses is more profound than their standalone effects in chickpea	Srinivasan Samineni, ICRISAT
<b>15:15-15:30</b>	OP36: Pigeon pea success story in Eastern and Southern Africa: achievements and prospects	Ganga Rao NVPR, Kenya

<b>Session 10: Innovation in Biotic Stress Management</b>		
<b>14:00-15:30</b>	Chair: Rebecca McGee, Research Geneticist, USDA, USA Co-Chair: Seid K Ahmad, Legumes Pathologist, ICARDA	
<b>14:00-14:30</b>	KN13: Integrated management of parasitic weeds to reclaim pulses area in Mediterranean region	Diego Rubiales, Spain
<b>14:30-14:45</b>	OP37: Management of soil-borne diseases for sustainable pulse crop production	Weidong Chen, WSU, USA
<b>14:45-15:00</b>	OP38: Integrated Pest Management of food legume insect pests in CWANA region	Mustapha El-Bouhssini, ICARDA
<b>15:00-15:15</b>	OP39: Foliar disease management in pulses	Eva Madrid, Max Planck Institute
<b>15:15-15:30</b>	OP40: Combating wilt susceptibility in chickpea – a success story and challenges ahead	Deep Ratna Saxena, RVSKVV, India
<b>15:30-16:00</b>	<b>Coffee break and Poster Session</b> ☕🌟	
<b>16:00-19:00</b>	FAO Side Event: International Year of Pulses, Regional Dialogue for North Africa (To be continued on April 20, 10:00) Riccardo Del Castello, FAO	
<b>16:00-18:00</b>	Panel Discussion: ICARDA Research Strategy	Kamel Shideed, ICARDA
<b>April 20, 2016</b>		
<b>Session 11: Toward Sustainable Food Production Systems in Drylands</b>		
<b>08:30-13:00</b>	Chair: Kamel Shideed, Assistant Director General - International Cooperation, ICARDA Co-chair: Mohamed El Gharous, PM6P	
<b>08:30-8:40</b>	Introduction	Kamel Shideed, ICARDA
<b>08:40-10:00</b>	A: Knowledge Sharing – Country Successes, Lessons Learnt & Challenges Ahead (7 minute lightning presentations by country NARS and project leads)	

<b>08:40-09:15</b>	India-Morocco Food Legumes Initiative	SA Patil, Advisor, Fondation OCP, India
	Morocco	Dahan Rachid, INRA
	India	Ch Ravinder Reddy, MSSRF
	Bangladesh	Mohd Omar Ali, BARI
	Nepal	Yam Pandey, NARC
<b>09:15-10:00</b>	Strengthening Wheat-Legumes Systems in West Asia & North Africa (EU-IFAD Project)	
	Egypt	Mohamed Solomon, FCRI
	Sudan	Gamal Elkheir Khalifa Ismaeel, ARC
	Tunisia	Mohamed Salah Gharbi, INRAT
	Morocco	Hamida Hilali, INRA
	Ethiopia	Asnake Fikre, EIAR
<b>10:00-10:30</b>	<b>Coffee break</b> ☕	
<b>10:30-12:00</b>	B. Achieving Diversification & Sustainable Intensification of Cereal Based Systems with Pulses	
<b>10:30-11:30</b>	Thematic Roundtables: Facilitated by Andrea Gros and Rajita Majumdar, ICARDA	
<b>11:30-11:50</b>	Presentation on roundtable outcomes	
<b>12:00-13:00</b>	<b>Joining Hands on a Practical Path Forward: Science, Policy, Institutions &amp; Markets</b> <b>Chair: Philippe Ellul, CGIAR Consortium</b>	
<b>12:00-12:20</b>	Call for votes and recommendations	
<b>12:20-12:30</b>	Concluding Remarks	Philippe Ellul, CGIAR Consortium
<b>12:30-13:00</b>	Media Q&A/Open floor	
<b>13:00-14:00</b>	<b>Lunch</b> 🍴	