



## Regional Workshop On Underutilized Animal Genetic Resources and their Amelioration

March 4-6, 2019

Venue: Malaysian Agricultural Research and Development Institute, Selangor, Malaysia

### PROGRAMME

#### SUNDAY, MARCH 3, 2019

##### Arrival of International Guests

Stay at **Palm Garden Hotel**

Websites: [www.palmgarden.com.my](http://www.palmgarden.com.my)

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Airport distance: 43 km from KL International Airport

MARDI distance: 7 km to MARDI

#### DAY 1: MONDAY, MARCH 4, 2019

08.30	Hotel pick-up for MARDI Venue: <i>Tan Sri Yusuf Hashim Hall, MARDI Serdang</i>
08:30 - 09:00	Registration
09:00 - 10.30	<p><b>OPENING CEREMONY</b></p> <p><b>Arrival of</b></p> <p><b>YBhg. Dato' Mohd Sallehuddin Hassan</b> Secretary General Ministry of Agriculture &amp; Agro-based Industry (MOA), Malaysia</p> <p><b>YB Tuan Sim Tze Tzin</b> Deputy Minister Ministry of Agriculture &amp; Agro-based Industry (MOA), Malaysia</p> <p><b>Doa' recital</b></p> <p><b>Welcome remarks by</b></p> <p><b>YBhg. Dato' Mohd Sallehuddin Hassan</b> Secretary General Ministry of Agriculture &amp; Agro-based Industry (MOA), Malaysia</p> <p><b>Dr Ravi Khaterpal</b> Executive Secretary Asia-Pacific Association of Agricultural Research Institution (APAARI), Bangkok</p> <p><b>Dr Chung-Hsiu Hung</b> Director General</p>

	<p><i>Council of Agriculture (COA), Taiwan</i></p> <p><b>Opening remarks by</b>  <b>YB Tuan Sim Tze Tzin</b>  <i>Deputy Minister</i>  <i>Ministry of Agriculture &amp; Agro-based Industry (MOA),</i>  <i>Malaysia</i></p> <p><b>Gift exchange</b>  <b>Group photo session</b></p>
10.30 – 11:00	Tea/Coffee break
<p><b>TECHNICAL SESSION I</b></p> <p><b>STATUS OF UNDERUTILIZED ANIMAL GENETIC RESOURCES FOR FOOD AND AGRICULTURE AT SUB-REGIONAL LEVEL</b></p> <p><b>Chairpersons: Mohamad Roff Bin Mohd Noor &amp; Jialin Han</b></p>	
11:00 – 11:20	<p><b>South and West Asia</b>  <i>Arjava Sharma</i>  <i>Former Director</i>  <i>ICAR-National Bureau of Animal Genetic Resources (NBAGR), India</i></p>
11:20 – 11:40	<p><b>South-East Asia</b>  <i>Synan Bagio, PCAARRD, Philippines</i>  <i>Officer-in-Charge</i>  <i>Livestock Research Division, DOST-PCAARRD, Philippines</i></p>
11:40 – 12:00	<p><b>East Asia</b>  <i>Tu, Po An</i>  <i>Associate Researcher</i>  <i>Livestock Research Institute, Council of Agriculture (COA), Taiwan</i></p>
12:00 - 12:20	<p><b>The Pacific</b>  <i>Alan Quartermain</i>  <i>Professor of Agriculture</i>  <i>University of Goroka (UOG), Papua New Guinea</i></p>
12:20 - 12:35	Discussion
12:35 - 13:45	Lunch
<p><b>TECHNICAL SESSION II</b></p> <p><b>THEMATIC PRESENTATIONS ON UNDERUTILIZED ANIMAL GENETIC RESOURCES</b></p> <p><b>Chairpersons: Ilse Köhler-Rollefson &amp; Tengku Rinalfi Putra Tengku Azizan</b></p>	
14:00 - 14:20	<p><b>Underutilized animal genetic resources for food and nutrition – regional scenario</b>  <i>Jialin Han</i>  <i>Senior Scientist</i>  <i>ILRI-CAAS Joint Lab</i>  <i>International Livestock Research Institute (ILRI), China</i></p>
14:20 - 14:40	<p><b>Characterization, inventory and monitoring of underutilized AnGR</b>  <i>Adrien Kumar Raymond</i>  <i>Former Senior Research Officer</i>  <i>Department of Veterinary Service (DVS), Malaysia</i></p>
14:40 - 15:00	<p><b>AnGR diversity risk assessment</b>  <i>Sipke Joost Hiemstra</i>  <i>Director</i>  <i>Centre for Genetic Resources (CGN)</i>  <i>Wageningen Livestock Research (WLR), The Netherlands</i></p>
15:00 - 15:20	<p><b>Breeding strategies for underutilized AnGR</b>  <i>Ming Che Wu</i>  <i>Chief, Animal Breeding and Genetics Division</i></p>

	Taiwan Livestock Research Institute (TLRI), Taiwan
15:20 - 15:35	Discussion
15:35 - 16:05	Tea/Coffee Break
16:05 - 16:25	<b>Molecular biotechnologies for underutilized AnGR</b> Ainu Husna MS Suhaimi Deputy Director Livestock Science Research Centre Malaysian Agricultural Research & Development Institute (MARDI), Malaysia
16:25 - 16:45	<b>Animal genetic resources in the ASEAN and the three objectives of the Convention on Biological Diversity</b> Elpidio V Peria Programme Specialist Development & Implementation Unit Asean Centre for Biodiversity (ACB), Philippines
16:45 - 17:05	<b>Market-driven approaches to conservation and utilization of AnGR</b> Steve Staal Program Leader Policies, International Livestock Research Institute (ILRI), Kenya
17:05 - 17:20	Discussion
20:00 - 22:00	Workshop Dinner
<b>DAY 2: TUESDAY, MARCH 5 2019</b>	
<b>TECHNICAL SESSION III</b> <b>STRATEGIES FOR CONSERVATION AND UTILIZATION OF UNDERUTILIZED ANIMAL GENETIC RESOURCES</b> <b>Chairpersons: SJ Hiemstra &amp; Redzuan Ibrahim</b>	
09:00 - 09:20	<b>Reproductive biotechnologies for underutilized AnGR</b> Abdul Rashid Baba Former Principal Senior Research Officer MARDI, Malaysia
09:20 - 09:40	<b>Avian genetic resources</b> Khabirul Islam Khan Professor Dept. of Genetics and Animal Breeding Chottagram Veterinary & Animal Sciences University (CVASU), Bangladesh
09:40 - 10:00	<b>Modern methods of in situ and ex situ conservation of underutilized AnGR</b> Tengku Rinalfi Putra Tengku Azizan Senior Lecturer Faculty of Veterinary Medicine Universiti Putra Malaysia (UPM), Malaysia
10:00 - 10:30	Discussion
10:30 - 11:00	Tea/Coffee Break
11:00 - 11:20	<b>Conservation and improvement of small ruminant genetic resources for sustainable food production</b> Satendra K. Singh Scientific Advisor Ministry of Agriculture and Farmers Welfare (MoAFW), India
11:20 - 11:40	<b>Access and benefit-sharing of underutilized livestock breeds under the Nagoya Protocol Framework</b> Ilse Köhler-Rollefson

	<i>Head League for Pastoral Peoples and Endogenous Livestock Development (LPPELD), Germany</i>
11:40 - 12:00	Discussion
12:00 - 13:30	Lunch
<b>TECHNICAL SESSION IV</b>	
<b>WORLD CAFÉ DISCUSSION – REGIONAL PRIORITIES FOR UNDERUTILIZED ANGR</b>	
14.00 - 16:30  (about 30 mins for a group of 12 participants for each table)	<p><b>Moderator</b> <i>Ahmad Tajuddin Zainuddin, MASMARDI, Malaysia</i></p> <p><b>Table 1. Conservation, improvement and use</b> <i>Facilitator: Sivananthan Elagupillay, WILDLIFE, Malaysia</i></p> <p><b>Table 2. Value addition, marketing and export</b> <i>Facilitator: Sabariah Ismail, DVS, Malaysia</i></p> <p><b>Table 3. Partnership and capacity development</b> <i>Facilitator: Shahril Faizal Abdul Jani, MOA, Malaysia</i></p> <p><b>Table 4. Biotechnology for enhancing utilization</b> <i>Facilitator: Ainu Husna MS Suhaimi, MARDI, Malaysia</i></p> <p><b>Table 5. Regional information sharing system and focal points</b> <i>Facilitator: Satendra K. Singh, MoAFW, India</i></p>
16:30 - 17:30	<b>Presentation of Recommendations</b> <i>(by all facilitators of each table)</i>
<b>DAY 3: WEDNESDAY, MARCH 6, 2019</b>	
<b>TECHNICAL SESSION V</b>	
<b>PANEL DISCUSSION ON LEGAL AND POLICY FRAMEWORK SUPPORT TO PROMOTE UTILIZATION OF UNDERUTILIZED ANGR</b>	
<b>Chairpersons: Steve Staal &amp; Wan Kamil Dato' Wan Nik</b>	
09:00 - 10:30	<p><b>Perception of Panellists (Appox. 10 min each)</b></p> <ol style="list-style-type: none"> <li>1. <i>SJ Hiemstra, CGN-WLR, Netherland</i></li> <li>2. <i>Ilse Köhler-Rollefson, LPPELD, Germany</i></li> <li>3. <i>Ravi Khetarpal, APAARI, Thailand</i></li> <li>4. <i>Allen Quartermain, UOG, Papua New Guinea</i></li> <li>5. <i>Steve Staal, ILRI, Kenya</i></li> <li>6. <i>Tengku Rinalfi Putra Tengku Azizan, UPM, Malaysia</i></li> <li>7. <i>Khabirul Islam Khan, CVASU, Bangladesh</i></li> </ol>
10:30 - 11:00	Tea/Coffee Break
<b>PLENARY SESSION</b>	
<b>Chairpersons: Ravi Khetarpal &amp; Mohamad Roff Bin Mohd Noor</b>	
11:00 - 11:30	<b>Presentation of World Café Discussion</b> <i>Moderator: Mr Ahmad Tajuddin Zainuddin</i>
11:30 - 12:00	<b>Summary of Technical Sessions</b> <i>Chairman: Tuan Haji Sadi Sujang</i>
12:00 - 12:30	<p><b>Brief Remarks by the Co-Organizers (~2-3 min. each)</b></p> <p><b>Closing Remarks</b> <b>Dr Ravi Khaternal</b> <i>Executive Secretary Asia-Pacific Association of Agricultural Research Institution (APAARI), Bangkok</i></p>

	<p><b>YBhg, Datuk Dr Mohamad Roff Bin Mohd Noor</b>  Director General  Malaysian Agricultural Research and Development Institute  (MARDI), Malaysia</p> <p><b>Vote of Thanks</b>  <b>Dr Rishi Tyagi</b>  APCoAB Coordinator  Asia-Pacific Association of Agricultural Research Institution  (APAARI), Bangkok</p>
12:30 - 13:30	Lunch
14:00 - 16:00	Visit to MARDI facilities
14:00 - 14.30	Introduction of Centre of Marker Development & Validation (CMDV)
14.30 - 14.45	Q&A
14.45 - 15.00	Depart to CMDV
15.00 - 16.00	Technical visit to the lab

