International Symposium on “Recent Progress in Swine Breeding and Raising Technologies” and NARO’s Satellite Symposium on “Cutting-Edge Reproductive Technologies and Perspectives for their Usage in Swine”
Taiwan Livestock Research Institute, Tainan, Taiwan, June 02-07, 2014

Program

Arrival: Monday, 02 June 2014
All foreign participants encouraged to fly via Kaohsiung (KHH) airport.
Arrival of Overseas Participants
Check-in at Evergreen Plaza Hotel (台南台糖長榮酒店)
http://evergreen-tainan.hotel.com.tw/eng/
No. 1, Alley 336, Section 3, Chung-Hua East Road, Tainan 701, Taiwan (R.O.C.)

Day 1 Symposium: Tuesday, 03 June 2014
08:30-09:30  Registration

OPENING

MC: Mr. Ronald Mangubat
Information Officer of Food and Fertilizer Technology Center

09:30-10:30  ● Welcome Remarks
Dr. Yu-Tsai HUANG
Director of Food and Fertilizer Technology Center (FFTC)

● Opening Remarks
Dr. Ing-Haur Hwang
Director General of Taiwan Livestock Research Institute (TLRI)

● Inaugural Remarks
Dr. Hsiang-Jung Tsai
Director General of Animal Health Research Institute (AHRI)

● Introduction of FFTC
● Group Photo

10:30-11:00  Coffee Break & Networking

KEYNOTE SESSION

Moderator: Dr. Takashi Nagai
Food and Fertilizer Technology Center

11:00-11:40  Using Today’s Technology for Breeding Pigs for Tomorrow’s Conditions
Dr. Jan ten Napel
Animal Breeding and Genomics Centre, Wageningen UR Livestock Research, the Netherlands

11:40-13:00  Lunch Break & Networking
SESSION 1: Molecular Technology for Swine Breeding

Moderator: Dr. Jan ten Napel
Animal Breeding and Genomics Centre, Wageningen UR Livestock Research, the Netherlands

13:00-13:30 Development of Marbling Pork with Marker-assisted Selection
Dr. Satoshi Mikawa
Animal Genome Research Unit, National Institute of Agrobiological Sciences (NIAES), Japan

13:30-14:00 SNP and Protein Markers for Embryo Development at Early Stage Identified from Functional Genomics in Landrace
Dr. En-Chung Lin
Department of Animal Science and Technology, National Taiwan University (NTU), Taiwan

14:00-14:30 Networking System for Marker-assisted Selection in Pigs
Dr. Ming-Che Wu
Breeding and Genetics Division, Taiwan Livestock Research Institute, Taiwan

14:30-15:00 Open Forum

15:00-15:30 Coffee Break & Networking

SESSION 2: Swine Feed and Nutrition

Moderator: Dr. Masaya Katsumata
Department of Veterinary Medicine, Azabu University, Sagamihara, NARO Institute of Livestock and Grassland Science (NILGS), Japan

15:30-16:00 Lysine and Metabolizable Energy Requirement for Prolific Lactating Sow
Dr. Chung-Wen Liao
Nutrition Division, Taiwan Livestock Research Institute, Taiwan

16:00-16:30 Production of Recombinant Pepsin, Pancreatic Lipase and Colipase from Pichia Pastoris as Feed Additive
Dr. Fang-Chueh Liu
Nutrition Division, Taiwan Livestock Research Institute, Taiwan

16:30-17:00 Advanced Dietary System Without Antibiotics in Korea’s Swine Industry
Dr. In-Ho Kim
Department of Animal Resource & Science, Dankook University, Korea

17:00-17:30 Open Forum

18:30-20:30 Welcome dinner (TLRI)
Day 2 Symposium: Wednesday, 04 June 2014
SESSION 3: Swine Health Management

Moderator: Dr. Noboru Manabe
Animal Resource Center, The University of Tokyo, Japan

08:30-09:00 Managing Pig Health by Biosecurity Practice
Dr. Yeou-Liang Lin
Division of Epidemiology Research, Animal Health Research Institute, Council of Agriculture, Taiwan

09:00-09:30 Improvement of Herd Productivity by Pig Management Through Pig Flow and Batching
Dr. John Carr
Agriculture Technology Research Institute, Taiwan

09:30-10:00 Pathological Diagnosis on Major Pig Diseases in Taiwan
Dr. Shu-Hwae Lee
Animal Drugs Inspection Branch, Animal Health Research Institute, Council of Agriculture, Taiwan

10:00-10:30 Open Forum

10:30-11:00 Coffee Break & Networking

SESSION 4: Pork Quality and Meat Processing

Moderator: Dr. Deng-Cheng Liu
Department of Animal Science, National Chung Hsing University, Taiwan

11:00-11:30 Promotion of Intramuscular Fat Accumulation in Porcine Muscle by Nutritional Regulation
Dr. Masaya Katsumata
Department of Veterinary Medicine, Azabu University, NARO Institute of Livestock and Grassland Science, Japan

11:30-12:00 Hog Slaughter and Pork Quality Evaluation
Dr. Wen-Shien Chen
Animal Product Processing Division, Taiwan Livestock Research Institute, Taiwan

12:00-13:30 Lunch Break & Networking

13:30-14:00 Traceability on Pork in Japan
Dr. Tadashi Shiota
Japan Association for International Racing and Studbook, Japan

14:00-14:30 Open Forum
SESSION 5: Country Papers (Malaysia, Philippines, Thailand, Vietnam)

Moderator: Mr. Ronald Mangubat
Information Officer of Food and Fertilizer Technology Center

14:30-15:00 Pig Production in Thailand

Dr. Wichai Tantasuparuk
Department of Obstetrics Gynaecology and Reproduction, Faculty of Veterinary Science, Chulalongkorn University, Thailand

15:00-15:30 Coffee Break & Networking

15:30-16:00 Pig Production and Marketing in Vietnam

Dr. Nguyen Manh Dung
Scientific Planning and International Cooperation Department, National Institute of Animal Sciences (NIAS), Vietnam

16:00-16:30 Swine Breeding and Production in Malaysia

Dr. Moktir Singh A/L Gardir Singh
Pig Section, Livestock Commodity Development Division, Department of Veterinary Services, Ministry of Agriculture and Agro Based Industry, Malaysia

16:30-17:00 A Dynamic Philippine Swine Industry: Key to Meeting Challenges and Technological Innovations

Dr. Antonio J. Barroga
Central Luzon State University, Philippines

17:00-17:30 Pig Production in Indonesia

Dr. Ir. Pollung H. Siagian
Department of Animal Production and Technology, Faculty of Animal Science, Bogor Agricultural University, Indonesia

17:30-17:50 Introduction of Pig Breeding Auction

Dr. Ming-Che Wu
Breeding and Genetics Division, Taiwan Livestock Research Institute, Taiwan

17:50- Free Activity
Day 3 NARO’s Satellite Symposium: Thursday, 05 June 2014

08:30-09:00  Registration

OPENING

MC: Mr. Ronald Mangubat
Information Officer of Food and Fertilizer Technology Center

09:00-09:20  ● Welcome Remarks
Dr. Yu-Tsai HUANG
Director of Food and Fertilizer Technology Center (FFTC)

● Opening Remarks
Dr. Akio Takenaka
Director of Division of Animal Sciences, National Institute of Agrobiological Sciences (NIAS), Japan

● Introduction of FFTC

● Group Photo

SESSION 1: Artificial Insemination

KEYNOTE SESSION

Moderator: Dr. Christopher G. Grupen
Animal Reproduction, Faculty of Veterinary Science, University of Sydney, Australia

09:20-10:10  Current Status and Perspectives of Artificial Insemination in Pigs
Dr. Heriberto Rodriguez-Martinez
Professor, the University of Linköping, Faculty of Health Sciences, Linköping, Sweden

Translator/English to Mandarin: Dr. Ming-Che Wu
Breeding and Genetics Division, Taiwan Livestock Research Institute, Taiwan

10:10-10:30  Coffee Break & Networking

Moderator: Dr. Keisuke Edashige
Laboratory of Animal Science, College of Agriculture, Kochi University, Japan

10:30-11:00  Cryopreservation of Boar Spermatozoa: The Curious Functions of Seminal Plasma During Freezing or thawing
Dr. Tetsuji Okazaki
Swine and Poultry Team, Livestock Research Division, Oita Prefectural Agriculture, Forestry and Fisheries Research Center, Japan

11:00-11:20  Open Forum
SESSION 2: Oocyte and Embryo Factory

Moderator: Dr. Kazuhiro Kikuchi
Animal Development and Differentiation Research Unit (Kannondai), Division of Animal Sciences, National Institute of Agrobiological Sciences (NIAS), Japan

11:20-11:50 In Vitro Growing of Immature Porcine Oocytes
Dr. Yuji Hirao
Animal Breeding and Reproduction Division, NARO Institute of Livestock and Grassland Science, National Agriculture and Food Research Organization (NARO/NILGS), Japan

11:50-12:20 Current Status of Porcine Embryo in Vitro Production
Dr. Christopher G. Grupen
Animal Reproduction, Faculty of Veterinary Science, University of Sydney, Australia

12:20-13:10 Lunch Break & Networking

13:10-13:40 Cryopreservation of in Vitro Produced Embryos and Immature Oocytes in Pigs
Dr. Tamas Somfai
Animal Breeding and Reproduction Division, NARO Institute of Livestock and Grassland Science, National Agriculture and Food Research Organization (NARO/NILGS), Japan

13:40-14:10 Establishment of Practical Embryo Transfer for Fresh or Frozen Embryos in Pigs
Dr. Koji Yoshioka
Pathology and Pathophysiology Research Division, National Institute of Animal Health, National Agriculture and Food Research Organization (NARO/NIAH), Japan

14:10-14:30 Open Forum

14:30-14:50 Coffee Break & Networking

SESSION 3: Stem Cells

Moderator: Dr. Teng-Kuei Cheng
Department of Animal Science and Biotechnology, Tunghai University, Taiwan

14:50-15:20 Establishment of ES (Embryonic Stem) Cell Like Cells in Pigs
Dr. Seiki Haraguchi
Animal Breeding and Reproduction Division, NARO Institute of Livestock and Grassland Science, National Agriculture and Food Research Organization (NARO/NILGS), Japan
15:20-15:50  Research and Development of Porcine Embryonic Stem Cells in Taiwan  
Dr. Lih-Ren Chen  
Division of Physiology, Livestock Research Institute, Taiwan

15:50-16:10  Open Forum  
SESSION 4: Perspective, Usage, and International Cooperation

Chairman: Dr. Takashi Nagai  
Food and Fertilizer Technology Center, Taiwan  
Co-Chairman: Dr. Kazuhiro Kikuchi  
Division of Animal Sciences, National Institute of Agrobiological Sciences, Japan  
Co-Chairman: Dr. Ming-Che Wu  
Breeding and Genetics Division, Taiwan Livestock Research Institute, Taiwan

16:10-16:40  International Collaboration for Conservation and Utilization of Porcine Genetic Resources  
Dr. Kazuhiro Kikuchi  
Division of Animal Sciences, National Institute of Agrobiological Sciences (NIAS), Japan

16:40-17:30  Round Table Discussion  
Reach Out Issues  
A. Cutting-edge reproductive technologies  
B. Practice of the reproductive technologies  
C. Setting up of International Projects

18:30-20:30  Appreciation Dinner (Evergreen Plaza Hotel)
Day 4 Field Trip: Friday, 06 June 2014

08:00-09:30  Head to Wusanto Reservoir
09:30-10:30  Wusanto Reservoir
  ○ Irrigation Facility System
  ○ Hatta Yoichi Memorial Hall
  ○ Hatta Yoichi Bronze Statue
  ○ Hatta Yoichi Memorial Park
11:00-11:30  Animal Germplasm Center, TLRI
11:30-11:50  Introduction of Pig Breeding Auction
11:50-12:40  Lunch Break and Networking (TAGC)
12:45-13:20  Breeding Pig Auction and Awarding Ceremony
13:25-14:00  Physiology Division, TLRI
14:00-14:40  Feed Analysis Center, TLRI
15:20-16:20  Sausage Museum, Black Bridge Food Co., LTD.