

# ARBC2018 at Taipei Zoo, Taiwan

## 13th Asian Reproductive Biotechnology Congress, 3~6 May 2018

Reproductive biotechnology for defining, delineating and displaying the world of human and animal

Venue: International Conference Hall

Third Floor, Panda House, Taipei Zoo

No. 30, Section 2, XinGuang Road, WenShan District, Taipei City 11656 Taiwan



Reproductive Biotechnology	Abstracts	Species
A. Reproductive medicine	6	Farm Animal; Zoo Animal; Endangered Species
B. Fertility preservation	15	Human; Farm Animal; Zoo Animal; Lab Animal; Amphibia; Endangered Species
C. Assisted reproduction	11	Human; Farm Animal; Zoo Animal; Lab Animal; Endangered Species
D. Cell and Tissue bio-banking	9	Farm Animal; Zoo Animal; Endangered Species
E. Animal cloning	4	Farm Animal; Endangered Species
F. Embryo development	11	Farm Animal; Lab Animal
G. Cell reprogramming	7	Farm Animal; Lab Animal
H. Biology and Economics	4	Farm Animal

### Oral Presentation Schedule (Panda House)

Time	3 May (Thu)	4 May (Fri)	5 May (Sat)	6 May (Sun)	
08:30	Registration/ <i>Third Floor of Panda House</i>	Registration	Registration	Registration	
09:00		Plenary Speaker Thomas B. Hildebrandt (Germany)	Plenary Speaker Pascal Mermillod (France)	Plenary Speaker Pierre Comizzoli (USA)	
09:40		Cell and Tissue bio-banking (I)	Reproductive medicine (II) Assisted reproduction (II)	Cell reprogramming (II)	
10:00	Opening Ceremony Group Photo				
10:30	Tree Planting				
11:00	Plenary Speaker Janine L. Brown (USA)	Health break	Health break	Health break	
11:40	Reproductive medicine (I)	Animal cloning	Embryo development (I)	Assisted reproduction (III)	
12:00					
12:30	Lunch break	Cell reprogramming (I)	Lunch break	Lunch break	
13:00		Lunch break			
13:30	Fertility preservation (I)		Embryo development (II)	Fertility preservation (III)	
14:00		Zoo Tour: <ul style="list-style-type: none"> <li>● Tour African Animal</li> <li>● Tour Forest Animal</li> <li>● Tour Formosa Animal</li> <li>● Tour Animal Medical Center</li> </ul>	Biology and Economics (I)	Biology and Economics (II)	
14:30			Health break	Health break	
15:00	Health break				
15:30	Assisted reproduction (I)			Fertility preservation (II)	Cell and Tissue bio-banking (II)
16:00				Closing Ceremony	
16:30					
17:00	Reception/ <i>Insect House Lobby</i>				
17:30				Gala Dinner/ <i>Gate Square</i>	
18:00					
19:00	600 meter night trip walking with Firefly			The Outstanding Paper Award of Young Scientists	
20:00					
21:00					

### Hand-On Training Schedule (maximum 7 people per class)

Hand-On Training	Location	3 May (Thu)	4 May (Fri)	5 May (Sat)	6 May (Sun)	Instructor
Flow Cytometric Sperm Assay	Room 301	15:00~17:00		10:00~12:00	10:00~12:00	Hsiu-Lien Lin, Ting-Yung Kuo, Chiao-Chien Chu
Oocyte Freezing	Room 302		10:00~12:00	15:00~17:00		Yu-Shin Chen, Ting-Chieh Kang, Fung-Hsiang Chu, Jenn-Rong Yang

### Poster Presentation Preference Session & Exhibition

09:00AM~16:30PM 3~6 May	Third floor at International Conference Hall of Panda House
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Time	3 May (Thu)	Presenter/ Paper Title
08:30	Registration/	All Participants
09:00	<i>Third Floor of Panda</i>	
09:30	<i>House</i>	
10:00	Opening Ceremony Group Photo	Invited Guests All Participants
10:30	Tree Planting	All Participants
11:00	Plenary Speaker	Janine L. Brown (USA) <i>HORMONE MONITORING: AN IMPORTANT TOOL FOR BREEDING MANAGEMENT OF WILDLIFE SPECIES</i>
11:40	Reproductive medicine (I)	Yu-Chia Chang (Taiwan) <i>CHARACTERIZATION OF NONINVASIVE MONITORING REPRODUCTIVE ENDOCRINE PROFILES FROM THE CAPTIVE AND FIELD EURASIAN OTTER (LUTRA LUTRA) IN TAIWAN</i>
12:10		Bo Xiong (China) <i>THE PROTECTIVE ROLE OF MELATONIN IN PORCINE OOCYTE MEIOTIC FAILURE CAUSED BY THE EXPOSURE TO BENZO(A)PYRENE</i>
12:30~	Lunch break	Noboru MANABE (Japan) <i>PRODUCTION OF PRION GENE KO COW TO PREVENT SPONTANEOUS BSE AND THEIR CHARACTERISTICS</i>
12:30~	Lunch break	Education Center
13:30	Fertility	Na Li (France) <i>APPLICATION OF FLOW CYTOMETRY IN SEMEN ANALYSIS</i>
14:00	preservation (I)	Koshiro Watanuki (Japan) <i>GAIN: GREAT APE INFORMATION NETWORK FOR BEST CARE AND MANAGEMENT OF CAPTIVE APES IN JAPAN</i>
14:30		Jiehuan Xu (China) <i>IMPROVING PRACTICAL USE OF BOAR SEMEN CRYOPRESERVATION: CURRENT UNDERSTANDING</i>
15:00	Health break	Mark Wen Han Hiew (Malaysia) <i>EFFECT OF STORAGE TEMPERATURE OF EXTENDERS ON THE QUALITY OF BOAR SEMEN</i>
15:30	Assisted reproduction (I)	<i>Third Floor of Panda House</i>
16:00		Ampika Thongphakdee (Thailand) <i>REPRODUCTIVE SCIENCE AND TECHNOLOGIES FOR ENHANCING WILDLIFE CONSERVATION: THAI EXPERIENCES</i>
16:30		Eufrocina P. Atabay (Philippines) <i>IMPROVED PREGNANCY THROUGH SYNCHRONIZED OVULATION AND FIXED TIME AI IN WATER BUFFALOES</i>
17:00~ 19:00	Reception/ <i>Insect House Lobby</i>	Jonathan T. Aaltonen (USA) <i>APPLYING ASSISTED REPRODUCTIVE TECHNOLOGIES TO WILDLIFE CONSERVATION MANAGEMENT</i>
19:00~ 20:00	600 meter night trip walking with Firefly	Muhammad Usman Mehmood (Pakistan) <i>EFFECT OF INSEMINATION TIMING FOLLOWING 5 OR 7 DAYS CIDR CO-SYNCH IN NILI RAVI BUFFALO HEIFERS</i>
		Nam-Hyung Kim (Korea) <i>SPINDLE FORMATION AND ASYMMETRIC CELL IN MAMMALIAN OOCYTES</i>
17:00~ 19:00	Reception/ <i>Insect House Lobby</i>	All Participants
19:00~ 20:00	600 meter night trip walking with Firefly	All Participants

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09:00AM~16:30PM 3~6 May Third floor at International Conference Hall of Panda House	
Embryo development	Jin-Hoi Kim (Korea) <i>SINGLE CELL RNA-SEQ ANALYSIS PROVIDE DEEPER MOLECULAR INSIGHTS INTO ABNORMAL MATURATION OF TUBASTATIN A-TREATED MOUSE OOCYTES</i> Xue-Fang Wang (China) <i>TREATMENT WITH RESVERATROL DURING IN VITRO MATURATION IMPROVES PORCINE OOCYTE QUALITY AND EMBRYONIC DEVELOPMENT</i>

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Time	4 May (Fri)	Presenter/ Paper Title
08:30	Registration	<i>Third Floor of Panda House</i>
09:00	Plenary Speaker	Thomas B. Hildebrandt (Germany) <i>THE ART OF ART IN WILD PATIENTS</i>
09:40	Cell and Tissue bio-banking (I)	Bertrand Pain (France) <i>BAT STEM CELL LINES FOR BIODIVERSITY CONSERVATION AND VIRAL STUDIES</i>
10:10		Chia-Xin Lee (Taiwan) <i>SEMEN CRYOPRESERVATION AND QUALITY OF FROZEN-THAWED SEMEN IN TAIWAN HOLSTEIN BULL</i> Hsiu-Lien Lin (Taiwan) <i>SEPARATION OF ROOSTER SPERMATOZOA IN SILICA-BASED COLLOIDAL MEDIUM BY CENTRIFUGATION</i> Lilian P. Villamor (Philippines) <i>ANIMAL GENETIC RESOURCES THROUGH CRYOBANKING IN THE PHILIPPINES: MANAGEMENT INITIATIVES AND FUTURE DIRECTION</i>
10:40		Boripat Siriaronrat (Thailand) <i>RESEARCH AND CONSERVATION PROGRAMS AT ZPO</i>
11:00	Health break	<i>Third Floor of Panda House</i>
11:30	Animal cloning	Rangsun Parnpai (Thailand) <i>HOW TO IMPROVE SUCCESS OF INTER-SPECIES SOMATIC CELL NUCLEAR TRANSFER IN ENDANGERED SPECIES</i>
12:00		Xiang-Xing Zhu (China) <i>GENERATION OF TRANSGENIC-CLONED GUANGXI HUANJIANG XIANG PIGS SYSTEMICALLY EXPRESSING GREEN FLUORESCENT PROTEIN</i> Xi-jun Yin (China) <i>DOUBLE-MUSCLED PIGS CLONED USING MSTN-DISRUPTED FIBROBLASTS</i> Zifei Liu (China) <i>IGF2-H19 LOCUS METHYLATION STATUS IN CLONED GOAT FIBROBLAST CELLS</i>
12:30		Yuka Miki (Japan) <i>KNOCKOUT ANALYSIS OF OOCYTE-SPECIFIC MULTI-COPY GENE, OOG1</i>
13:00	Lunch break	Lunch Box for tour activity
13:30		
14:00	Zoo Tour: ● Tour African Animal ● Tour Forest Animal ● Tour Formosa Animal ● Tour Animal Medical Center & Conservation and Research Center	● Tour African Animal <i>Group A: 14:00~14:30</i> <i>Group B: 14:40~15:10</i>
14:30		● Tour Forest Animal <i>Group C: 15:00~15:30</i> <i>Group D: 15:40~16:10</i>
15:00		● Tour Formosa Animal <i>Group E: 16:00~16:30</i> <i>Group F: 16:40~17:10</i>
15:30		
16:00		● Tour Animal Medical Center & Conservation and Research Center <i>Group G: 14:00~14:50</i> <i>Group H: 15:00~15:50</i>
16:30		
17:00~		Free Activity

### Hand-On Training Schedule (maximum 7 people per class)

Hand-On Training	Location	3 May (Thu)	4 May (Fri)	5 May (Sat)	6 May (Sun)	Instructor
Flow Cytometric Sperm Assay	Room 301	15:00~17:00		10:00~12:00	10:00~12:00	Hsiu-Lien Lin, Ting-Yung Kuo, Chiao-Chien Chu
Oocyte Freezing	Room 302		10:00~12:00	15:00~17:00		Yu-Shin Chen, Ting-Chieh Kang, Fung-Hsiang Chu, Jenn-Rong Yang

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Time	5 May (Sat)	Presenter/ Paper Title
08:30	Registration	<i>Third Floor of Panda House</i>
09:00	Plenary Speaker	Pascal Mermillod (France) <i>MIMICKING THE MATERNAL ENVIRONMENT TO OPTIMIZE THE PRODUCTION OF EMBRYOS IN VITRO IN WILD AND DOMESTIC MAMMALS</i>
09:40	Reproductive medicine (II)	Rong Chen (China) <i>THE RESEARCH OF THE BREEDING OF NOMASCUS GABRIELLAE IN NANJING HONGSHAN FOREST ZOO IN CHINA</i>
10:00	Assisted reproduction (II)	Wanlaya Tipkantha (Thailand) <i>UPDATE ON REPRODUCTIVE TECHNOLOGIES FOR ENDANGERED CLOUDED LEOPARD</i> Nguyen Thi Hong (Vietnam) <i>INVESTIGATION OF CYCLE SYNCHRONIZATION AND ARTIFICIAL INSEMINATION FOR BREEDING INDUSTRY IN RABBITS</i>
10:30		Tamas Somfai (Japan) <i>COMPARISON OF TWO OOCYTE MATURATION MEDIA FOR IN VITRO PRODUCTION OF BLASTOCYSTS IN AN INDIGENOUS VIETNAMESE MINIATURE PIG</i>
11:00	Health break	<i>Third Floor of Panda House</i>
11:30	Embryo development (I)	Huiyan Xu (China) <i>BUFFALO OOCYTES MATURED IN VITRO WITH ACETYL-L-CARNITINE IMPROVES CRYOTOLERANCE DUE TO CHANGE IN MITOCHONDRIAL FUNCTION AND THE MEMBRANE LIPID PROFILE</i> Jeongwoo Kwon (Korea) <i>INHIBITION OF MEK1/2 AND GSK3 (2I SYSTEM) AFFECTS EPIGENETIC MODIFICATION AND EARLY DIFFERENTIATION OF PORCINE PARTHENOTES</i>
12:00		Kyung-Tae Shin (Korea) <i>THE TOXIC EFFECT OF AFLATOXIN B1 ON EARLY PORCINE EMBRYONIC DEVELOPMENT</i> Min-Jung Seong (Korea) <i>CPEB2 IS REQUIRED FOR TIGHT JUNCTION ASSEMBLY FOR ESTABLISHMENT OF PORCINE TROPHECTODERM EPITHELIUM</i>
12:30	Lunch break	Education Center
13:00		
13:30	Embryo development (II)	Nguyen Thi Nhung (Vietnam) <i>EFFECT OF DONER CELL TYPES ON THE DEVELOPMENT OF PIG EMBRYOS PRODUCED BY SOMATIC CELL NUCLEAR TRANSFER</i> Qing Guo (China) <i>JNJ-7706621 IMPROVES THE IN VITRO DEVELOPMENT COMPETENCE OF PORCINE PARTHENOGENETIC ACTIVATION AND SOMATIC CELL NUCLEAR TRANSFER EMBRYOS</i>
14:00		Yu-Jin Jo (Korea) <i>WHAMM PLAY ESSENTIAL ROLES IN SPINDLE FORMATION AND CAGE ACTIN MESH OF MATURING MOUSE OOCYTES</i> Zhao-Bo Luo (China) <i>CO-TREATMENT WITH REPSOX AND LBH589 IMPROVES THE IN VITRO DEVELOPMENTAL COMPETENCE OF PORCINE SOMATIC CELL NUCLEAR TRANSFER EMBRYOS</i> Zheng-Wen Nie (Korea) <i>THIAMETHOXAM INHIBITS BLASTOCYSTS EXPANDING AND HATCHING VIA ACTIVATION OF ROS-INDUCED DNA DAMAGE CHECKPOINT IN PIGS</i>
14:30	Biology and Economics (I)	Kim Dung Pham Thi (Vietnam) <i>ENHANCEMENT UTILIZATION OF REPRODUCTIVE TECHNOLOGY IN PIG HERDS OF VIETNAM TO MEET THE INDUSTRY DEVELOPMENT POLICY</i>
		Ruth Miclat-Sonaco (Philippines) <i>TECHNICAL TRAINING INPUT OF PIG REPRODUCTION IN LOCAL AND INTERNATIONAL FARMERS AT PHILIPPINE ITCPH</i>
15:00	Health break	<i>Third Floor of Panda House</i>
15:30	Fertility preservation (II)	Jing Pang (China) <i>INFLUENCES OF DIFFERENT DIETARY ENERGY LEVEL ON SHEEP TESTICULAR DEVELOPMENT ASSOCIATED WITH AMPK-ULK1 AUTOPHAGY PATHWAY</i>

		Shao-Chen Sun (China) <i>MELATONIN PROTECTS OOCYTES FROM MEHP EXPOSURE INDUCED MEIOSIS DEFECTS IN PORCINE</i>
16:00		Shuangshuang Geng (China) <i>THE PRIMARY RESEARCH OF OVER EXPRESSION OF GDNF GENE IN BUFFALO TESTIS SERTOLI CELLS</i> Wenjun Zhou (Korea) <i>FIPRONIL CAUSES APOPTOSIS DURING MEIOTIC MATURATION IN PORCINE OOCYTES</i>
16:30		Yong-Han Kim (Korea) <i>ACENTRIOLAR MICROTUBULE ORGANIZATION CENTERS AND RAN-MEDIATED MICROTUBULE FORMATION PATHWAYS ARE BOTH REQUIRED IN PORCINE OOCYTES</i> Tingting Li (China) <i>THE ESTABLISHMENT OF IN VITRO CULTURE SYSTEM OF BUFFALO SPERMATOGONIAL STEM-LIKE CELLS</i>
17:00~		Free Activity

### Hand-On Training Schedule (maximum 7 people per class)

Hand-On Training	Location	3 May (Thu)	4 May (Fri)	5 May (Sat)	6 May (Sun)	Instructor
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### Oral Presentation Schedule (Panda House)

Time	6 May (Sun)	Presenter/ Paper Title
08:30	Registration	<i>Third Floor of Panda House</i>
09:00	Plenary Speaker	Pierre Comizzoli (USA) <i>GONADAL TISSUE PRESERVATION IN RARE AND ENDANGERED SPECIES</i>
09:40	Cell reprogramming (II)	Ying-Jie Niu (Korea) <i>PINK1 IS ESSENTIAL FOR MAINTENANCE OF MITOCHONDRIAL MORPHOLOGY IN PORCINE PREIMPLANTATION EMBRYOS</i> Xiaoxiao Gao (China) <i>ROLES OF FIBROBLAST GROWTH FACTOR 9 AND LOC105611671 IN HU SHEEP TESTOSTERONE BIOSYNTHESIS</i>
10:10		Mei-Fu Xuan (China) <i>MYOSTATIN DEFICIENCY INCREASES TYPE II FIBER FORMATION IN SKELETAL MUSCLE BY REGULATING THE EXPRESSION OF MYOD AND MEF2 IN NEWBORN MYOSTATIN-KNOCKOUT PIGS</i> Jenn-Rong Yang (Taiwan) <i>CURRENT DEVELOPMENT OF PORCINE EMBRYONIC STEM CELLS AND INDUCED PLURIPOTENT STEM CELLS IN TAIWAN</i>
10:40		Shuting Wang (China) <i>EXPRESSION AND LOCALIZATION OF MECP2 GENE IN THE REPRODUCTIVE ORGANS OF HU SHEEP</i> Kaiping Deng (China) <i>CARCASS TRAITS, MEAT QUALITY, ANTIOXIDANT STATUS AND ANTIOXIDANT GENE EXPRESSION IN MUSCLE AND LIVER OF HU LAMBS FED PERILLA SEED</i>
11:00	Health break	<i>Third Floor of Panda House</i>
11:30	Assisted reproduction (III)	Pei-Shiue Tsai (Taiwan) <i>THE EFFECTS OF TYPE I COLLAGENASE ON THE DEGELIFICATION OF CHIMPANZEE (PAN TROGLODYTES) SEMEN PLUG AND SPERM QUALITY: IMPROVING GENETIC DIVERSITY OF ZOO CAPTIVE CHIMPANZEE</i>
12:00		Thanh Quang Dang-Nguyen (Japan) <i>GERMINAL VESICLE TRANSFER AS A RESCUE TOOL</i>
12:30	Lunch break	Education Center
13:00		
13:30	Fertility preservation (III)	Ting-Yung Kuo (Taiwan) <i>SCREENING ON SPERM CHROMOSOMAL BREAKAGE AND OXIDATION LEVEL OF YOUNG BREEDING BOARS</i> Jian Zheng (China) <i>COMPARATIVE TRANSCRIPTOME RESEARCH IN HU SHEEP HYPOTHALAMUS ASSOCIATED WITH PROLIFICACY</i>
14:00		Chiao-Chien Chu (Taiwan) <i>SPERM MATURITY OF GROWTH PERFORMANCE TESTED BOARS</i> Yu-Che Chiu (Taiwan) <i>ESTABLISHMENT OF CULTURE CONDITIONS FOR PRIMORDIAL GERM CELLS FROM TAIWAN COUNTRY CHICKEN</i>
14:30	Biology and Economics (II)	Thanee Pak-Uthai (Thailand) <i>ECONOMIC INPUT OF LIVESTOCK DEVELOPMENT IN FARMER BASED THAILAND</i> Xiaolei Yao (China) <i>AGE-ASSOCIATED EXPRESSION OF VDR AND VIT D METABOLIZING ENZYMES IN MALE REPRODUCTIVE TRACT AND SPERM OF SHEEP</i>
15:00	Health break	<i>Third Floor of Panda House</i>
15:30	Cell and Tissue bio-banking (II)	Kazuhiro Kikuchi (Japan) <i>INTERNATIONAL COLLABORATION FOR CONSERVATION AND UTILIZATION OF PIG RESOURCES - SATREPS ACTIVITY IN VIETNAM</i>
16:00		Long Xie (China) <i>EFFICIENT DERIVATION OF PRIMORDIAL GERM CELLS FOR GENETIC PRESERVATION OF INDIGENOUS CHICKEN</i> Yi-Chen Chen (Taiwan) <i>IN VITRO CULTURE AND CHARACTERISATION OF DUCK PRIMORDIAL GERM CELLS</i> Jun-Xia Wang (China) <i>CRYOPRESERVATION OF PIG PANCREATIC ISLET WITH TREHALOSE CRYOPROTECTANT</i>
16:30		Closing Ceremony

17:00		
17:30	Gala Dinner/ <i>Gate Square</i>	All Participants The Outstanding Paper Award of Young Scientists
18:00		
19:00		
20:00		
21:00		

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