

# 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

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

Theme	Presenter (alphabetical order)	Paper Title	From
A	<b>Bo Xiong</b>	THE PROTECTIVE ROLE OF MELATONIN IN PORCINE OOCYTE MEIOTIC FAILURE CAUSED BY THE EXPOSURE TO BENZO(A)PYRENE	China
A	<b>Janine L. Brown</b>	HORMONE MONITORING: AN IMPORTANT TOOL FOR BREEDING MANAGEMENT OF WILDLIFE SPECIES	USA
A	<b>Noboru MANABE</b>	PRODUCTION OF PRION GENE KO COW TO PREVENT SPONTANEOUS BSE AND THEIR CHARACTERISTICS	Japan
A	<b>Pascal Mermillod</b>	MIMICKING THE MATERNAL ENVIRONMENT TO OPTIMIZE THE PRODUCTION OF EMBRYOS IN VITRO IN WILD AND DOMESTIC MAMMALS	France
A	<b>Rong Chen</b>	THE RESEARCH OF THE BREEDING OF NOMASCUS GABRIELLAE IN NANJING HONGSHAN FOREST ZOO IN CHINA	China
A	<b>Yu-Chia Chang</b>	CHARACTERIZATION OF NONINVASIVE MONITORING REPRODUCTIVE ENDOCRINE PROFILES FROM THE CAPTIVE AND FIELD EURASIAN OTTER (LUTRA LUTRA) IN TAIWAN	Taiwan
B	<b>Chiao-Chien Chu</b>	SPERM MATURITY OF GROWTH PERFORMANCE TESTED BOARS	Taiwan
B	<b>Jian Zheng</b>	COMPARATIVE TRANSCRIPTOME RESEARCH IN HU SHEEP HYPOTHALAMUS ASSOCIATED WITH PROLIFICACY	China

Theme	Presenter (alphabetical order)	Paper Title	From
B	<b>Jiehuan Xu</b>	IMPROVING PRACTICAL USE OF BOAR SEMEN CRYOPRESERVATION: CURRENT UNDERSTANDING	China
B	<b>Jing Pang</b>	INFLUENCES OF DIFFERENT DIETARY ENERGY LEVEL ON SHEEP TESTICULAR DEVELOPMENT ASSOCIATED WITH AMPK-ULK1 AUTOPHAGY PATHWAY	China
B	<b>Koshiro Watanuki</b>	GAIN: GREAT APE INFORMATION NETWORK FOR BEST CARE AND MANAGEMENT OF CAPTIVE APES IN JAPAN	Japan
B	<b>Mark Wen Han Hiew</b>	EFFECT OF STORAGE TEMPERATURE OF EXTENDERS ON THE QUALITY OF BOAR SEMEN	Malaysia
B	<b>Na Li</b>	APPLICATION OF FLOW CYTOMETRY IN SEMEN ANALYSIS	France
B	<b>Pierre Comizzoli</b>	GONADAL TISSUE PRESERVATION IN RARE AND ENDANGERED SPECIES	USA
B	<b>Shao-Chen Sun</b>	MELATONIN PROTECTS OOCYTES FROM MEHP EXPOSURE INDUCED MEIOSIS DEFECTS IN PORCINE	China
B	<b>Shuangshuang Geng</b>	THE PRIMARY RESEARCH OF OVER EXPRESSION OF GDNF GENE IN BUFFALO TESTIS SERTOLI CELLS	China
B	<b>Tingting Li</b>	THE ESTABLISHMENT OF IN VITRO CULTURE SYSTEM OF BUFFALO SPERMATOGONIAL STEM-LIKE CELLS	China
B	<b>Ting-Yung Kuo</b>	SCREENING ON SPERM CHROMOSOMAL BREAKAGE AND OXIDATION LEVEL OF YOUNG BREEDING BOARS	Taiwan
B	<b>Wenjun Zhou</b>	FIPRONIL CAUSES APOPTOSIS DURING MEIOTIC MATURATION IN PORCINE OOCYTES	Korea
B	<b>Yong-Han Kim</b>	ACENTRIOLAR MICROTUBULE ORGANIZATION CENTERS AND RAN-MEDIATED MICROTUBULE FORMATION PATHWAYS ARE BOTH REQUIRED IN PORCINE OOCYTES	Korea
B	<b>Yu-Che Chiu</b>	ESTABLISHMENT OF CULTURE CONDITIONS FOR PRIMORDIAL GERM CELLS FROM TAIWAN COUNTRY CHICKEN	Taiwan
C	<b>Ampika Thongphakdee</b>	REPRODUCTIVE SCIENCE AND TECHNOLOGIES FOR ENHANCING WILDLIFE CONSERVATION: THAI EXPERIENCES	Thailand
C	<b>Eufrocina P. Atabay</b>	IMPROVED PREGNANCY THROUGH SYNCHRONIZED OVULATION AND FIXED TIME AI IN WATER BUFFALOES	Philippines
C	<b>Jonathan T. Aaltonen</b>	APPLYING ASSISTED REPRODUCTIVE TECHNOLOGIES TO WILDLIFE CONSERVATION MANAGEMENT	USA
C	<b>Muhammad Usman Mehmood</b>	EFFECT OF INSEMINATION TIMING FOLLOWING 5 OR 7 DAYS CIDR CO-SYNCH IN NILI RAVI BUFFALO HEIFERS	Pakistan

Theme	Presenter (alphabetical order)	Paper Title	From
C	<b>Nam-Hyung Kim</b>	SPINDLE FORMATION AND ASYMMETRIC CELL IN MAMMALIAN OOCYTES	Korea
C	<b>Nguyen Thi Hong</b>	INVESTIGATION OF CYCLE SYNCHRONIZATION AND ARTIFICIAL INSEMINATION FOR BREEDING INDUSTRY IN RABBITS	Vietnam
C	<b>Pei-Shiue Tsai</b>	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	Taiwan
C	<b>Tamas Somfai</b>	COMPARISON OF TWO OOCYTE MATURATION MEDIA FOR IN VITRO PRODUCTION OF BLASTOCYSTS IN AN INDIGENOUS VIETNAMESE MINIATURE PIG	Japan
C	<b>Thanh Quang Dang-Nguyen</b>	GERMINAL VESICLE TRANSFER AS A RESCUE TOOL	Japan
C	<b>Thomas B. Hildebrandt</b>	THE ART OF ART IN WILD PATIENTS	Germany
C	<b>Wanlaya Tipkantha</b>	UPDATE ON REPRODUCTIVE TECHNOLOGIES FOR ENDANGERED CLOUDED LEOPARD	Thailand
D	<b>Bertrand Pain</b>	BAT STEM CELL LINES FOR BIODIVERSITY CONSERVATION AND VIRAL STUDIES	France
D	<b>Boripat Siriaroonrat</b>	RESEARCH AND CONSERVATION PROGRAMS AT ZPO	Thailand
D	<b>Chia-Xin Lee</b>	SEMEN CRYOPRESERVATION AND QUALITY OF FROZEN-THAWED SEMEN IN TAIWAN HOLSTEIN BULL	Taiwan
D	<b>Hsiu-Lien Lin</b>	SEPARATION OF ROOSTER SPERMATOZOA IN SILICA-BASED COLLOIDAL MEDIUM BY CENTRIFUGATION	Taiwan
D	<b>Jun-Xia Wang</b>	CRYOPRESERVATION OF PIG PANCREATIC ISLET WITH TREHALOSE CRYOPROTECTANT	China
D	<b>Kazuhiro Kikuchi</b>	INTERNATIONAL COLLABORATION FOR CONSERVATION AND UTILIZATION OF PIG RESOURCES - SATREPS ACTIVITY IN VIETNAM	Japan
D	<b>Lilian P. Villamor</b>	ANIMAL GENETIC RESOURCES THROUGH CRYOBANKING IN THE PHILIPPINES: MANAGEMENT INITIATIVES AND FUTURE DIRECTION	Philippines
D	<b>Long Xie</b>	EFFICIENT DERIVATION OF PRIMORDIAL GERM CELLS FOR GENETIC PRESERVATION OF INDIGENOUS CHICKEN	China
D	<b>Yi-Chen Chen</b>	IN VITRO CULTURE AND CHARACTERISATION OF DUCK PRIMORDIAL GERM CELLS	Taiwan
E	<b>Rangsun Parnpai</b>	HOW TO IMPROVE SUCCESS OF INTER-SPECIES SOMATIC CELL NUCLEAR TRANSFER IN ENDANGERED SPECIES	Thailand
E	<b>Xiang-Xing Zhu</b>	GENERATION OF TRANSGENIC-CLONED GUANGXI HUANJIANG XIANG PIGS SYSTEMICALLY EXPRESSING GREEN FLUORESCENT PROTEIN	China

Theme	Presenter (alphabetical order)	Paper Title	From
E	<b>Xi-jun Yin</b>	DOUBLE-MUSCLED PIGS CLONED USING MSTN-DISRUPTED FIBROBLASTS	China
E	<b>Zifei Liu</b>	IGF2-H19 LOCUS METHYLATION STATUS IN CLONED GOAT FIBROBLAST CELLS	China
F	<b>Huiyan Xu</b>	BUFFALO OOCYTES MATURED IN VITRO WITH ACETYL-L-CARNITINE IMPROVES CRYOTOLERANCE DUE TO CHANGE IN MITOCHONDRIAL FUNCTION AND THE MEMBRANE LIPID PROFILE	China
F	<b>Jeongwoo Kwon</b>	INHIBITION OF MEK1/2 AND GSK3 (2I SYSTEM) AFFECTS EPIGENETIC MODIFICATION AND EARLY DIFFERENTIATION OF PORCINE PARTHENOTES	Korea
F	<b>Jin-Hoi Kim</b>	SINGLE CELL RNA-SEQ ANALYSIS PROVIDE DEEPER MOLECULAR INSIGHTS INTO ABNORMAL MATURATION OF TUBASTATIN A-TREATED MOUSE OOCYTES	Korea
F	<b>Kyung-Tae Shin</b>	THE TOXIC EFFECT OF AFLATOXIN B1 ON EARLY PORCINE EMBRYONIC DEVELOPMENT	Korea
F	<b>Min-Jung Seong</b>	CPEB2 IS REQUIRED FOR TIGHT JUNCTION ASSEMBLY FOR ESTABLISHMENT OF PORCINE TROPHECTODERM EPITHELIUM	Korea
F	<b>Nguyen Thi Nhung</b>	EFFECT OF DONER CELL TYPES ON THE DEVELOPMENT OF PIG EMBRYOS PRODUCED BY SOMATIC CELL NUCLEAR TRANSFER	Vietnam
F	<b>Qing Guo</b>	JNJ-7706621 IMPROVES THE IN VITRO DEVELOPMENT COMPETENCE OF PORCINE PARTHENOGENETIC ACTIVATION AND SOMATIC CELL NUCLEAR TRANSFER EMBRYOS	China
F	<b>Xue-Fang Wang</b>	TREATMENT WITH RESVERATROL DURING IN VITRO MATURATION IMPROVES PORCINE OOCYTE QUALITY AND EMBRYONIC DEVELOPMENT	China
F	<b>Yu-Jin Jo</b>	WHAMM PLAY ESSENTIAL ROLES IN SPINDLE FORMATION AND CAGE ACTIN MESH OF MATURING MOUSE OOCYTES	Korea
F	<b>Zhao-Bo Luo</b>	CO-TREATMENT WITH REP SOX AND LBH589 IMPROVES THE IN VITRO DEVELOPMENTAL COMPETENCE OF PORCINE SOMATIC CELL NUCLEAR TRANSFER EMBRYOS	China
F	<b>Zheng-Wen Nie</b>	THIAMETHOXAM INHIBITS BLASTOCYSTS EXPANDING AND HATCHING VIA ACTIVATION OF ROS-INDUCED DNA DAMAGE CHECKPOINT IN PIGS	Korea
G	<b>Jenn-Rong Yang</b>	CURRENT DEVELOPMENT OF PORCINE EMBRYONIC STEM CELLS AND INDUCED PLURIPOTENT STEM CELLS IN TAIWAN	Taiwan
G	<b>Kaiping Deng</b>	CARCASS TRAITS, MEAT QUALITY, ANTIOXIDANT STATUS AND ANTIOXIDANT GENE EXPRESSION IN MUSCLE AND LIVER OF HU LAMBS FED PERILLA SEED	China

Theme	Presenter (alphabetical order)	Paper Title	From
G	<b>Mei-Fu Xuan</b>	MYOSTATIN DEFICIENCY INCREASES TYPE II FIBER FORMATION IN SKELETAL MUSCLE BY REGULATING THE EXPRESSION OF MYOD AND MEF2 IN NEWBORN MYOSTATIN-KNOCKOUT PIGS	China
G	<b>Shuting Wang</b>	EXPRESSION AND LOCALIZATION OF MECP2 GENE IN THE REPRODUCTIVE ORGANS OF HU SHEEP	China
G	<b>Xiaoxiao Gao</b>	ROLES OF FIBROBLAST GROWTH FACTOR 9 AND LOC105611671 IN HU SHEEP TESTOSTERONE BIOSYNTHESIS	China
G	<b>Ying-Jie Niu</b>	PINK1 IS ESSENTIAL FOR MAINTENANCE OF MITOCHONDRIAL MORPHOLOGY IN PORCINE PREIMPLANTATION EMBRYOS	Korea
G	<b>Yuka Miki</b>	KNOCKOUT ANALYSIS OF OOCYTE-SPECIFIC MULTI-COPY GENE, OOG1	Japan
H	<b>Kim Dung Pham Thi</b>	ENHANCEMENT UTILIZATION OF REPRODUCTIVE TECHNOLOGY IN PIG HERDS OF VIETNAM TO MEET THE INDUSTRY DEVELOPMENT POLICY	Vietnam
H	<b>Ruth Miclat-Sonaco</b>	TECHNICAL TRAINING INPUT OF PIG REPRODUCTION IN LOCAL AND INTERNATIONAL FARMERS AT PHILIPPINE ITCPH	Philippines
H	<b>Thanee Pak-Uthai</b>	ECONOMIC INPUT OF LIVESTOCK DEVELOPMENT IN FARMER BASED THAILAND	Thailand
H	<b>Xiaolei Yao</b>	AGE-ASSOCIATED EXPRESSION OF VDR AND VIT D METABOLIZING ENZYMES IN MALE REPRODUCTIVE TRACT AND SPERM OF SHEEP	China