

# 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

**Theme** of Reproductive Biotechnology:

- A. Reproductive medicine**
- B. Fertility preservation**
- C. Assisted reproduction**
- D. Cell and Tissue bio-banking**
- E. Animal cloning**
- F. Embryo development**
- G. Cell reprogramming**
- H. Biology and Economics**

Theme	Presenter ( <b>alphabetical order</b> )	Paper Title	From
A	Bo Xiong	THE PROTECTIVE ROLE OF MELATONIN IN PORCINE OOCYTE MEIOTIC FAILURE CAUSED BY THE EXPOSURE TO BENZO(A)PYRENE	China
A	Janine L. Brown	HORMONE MONITORING: AN IMPORTANT TOOL FOR BREEDING MANAGEMENT OF WILDLIFE SPECIES	USA
A	Noboru MANABE	PRODUCTION OF PRION GENE KO COW TO PREVENT SPONTANEOUS BSE AND THEIR CHARACTERISTICS	Japan
A	Pascal Mermillod	MIMICKING THE MATERNAL ENVIRONMENT TO OPTIMIZE THE PRODUCTION OF EMBRYOS IN VITRO IN WILD AND DOMESTIC MAMMALS	France

Theme	Presenter ( <b>alphabetical order</b> )	Paper Title	From
A	Rong Chen	THE RESEARCH OF THE BREEDING OF NOMASCUS GABRIELLAE IN NANJING HONGSHAN FOREST ZOO IN CHINA	China
A	Yu-Chia Chang	CHARACTERIZATION OF NONINVASIVE MONITORING REPRODUCTIVE ENDOCRINE PROFILES FROM THE CAPTIVE AND FIELD EURASIAN OTTER (LUTRA LUTRA) IN TAIWAN	Taiwan
B	Chiao-Chien Chu	SPERM MATURITY OF GROWTH PERFORMANCE TESTED BOARS	Taiwan
B	Jian Zheng	COMPARATIVE TRANSCRIPTOME RESEARCH IN HU SHEEP HYPOTHALAMUS ASSOCIATED WITH PROLIFICACY	China
B	Jiehuan Xu	IMPROVING PRACTICAL USE OF BOAR SEMEN CRYOPRESERVATION: CURRENT UNDERSTANDING	China
B	Jing Pang	INFLUENCES OF DIFFERENT DIETARY ENERGY LEVEL ON SHEEP TESTICULAR DEVELOPMENT ASSOCIATED WITH AMPK-ULK1 AUTOPHAGY PATHWAY	China
B	Koshiro Watanuki	GAIN: GREAT APE INFORMATION NETWORK FOR BEST CARE AND MANAGEMENT OF CAPTIVE APES IN JAPAN	Japan
B	Mark Wen Han Hiew	EFFECT OF STORAGE TEMPERATURE OF EXTENDERS ON THE QUALITY OF BOAR SEMEN	Malaysia
B	Na Li	APPLICATION OF FLOW CYTOMETRY IN SEMEN ANALYSIS	France
B	Pierre Comizzoli	GONADAL TISSUE PRESERVATION IN RARE AND ENDANGERED SPECIES	USA
B	Shao-Chen Sun	MELATONIN PROTECTS OOCYTES FROM MEHP EXPOSURE INDUCED MEIOSIS DEFECTS IN PORCINE	China

Theme	Presenter ( <b>alphabetical order</b> )	Paper Title	From
B	Shuangshuang Geng	THE PRIMARY RESEARCH OF OVER EXPRESSION OF GDNF GENE IN BUFFALO TESTIS SERTOLI CELLS	China
B	Tingting Li	THE ESTABLISHMENT OF IN VITRO CULTURE SYSTEM OF BUFFALO SPERMATOGONIAL STEM-LIKE CELLS	China
B	Ting-Yung Kuo	SCREENING ON SPERM CHROMOSOMAL BREAKAGE AND OXIDATION LEVEL OF YOUNG BREEDING BOARS	Taiwan
B	Wenjun Zhou	FIPRONIL CAUSES APOPTOSIS DURING MEIOTIC MATURATION IN PORCINE OOCYTES	Korea
B	Yong-Han Kim	ACENTRIOLAR MICROTUBULE ORGANIZATION CENTERS AND RAN-MEDIATED MICROTUBULE FORMATION PATHWAYS ARE BOTH REQUIRED IN PORCINE OOCYTES	Korea
B	Yu-Che Chiu	ESTABLISHMENT OF CULTURE CONDITIONS FOR PRIMORDIAL GERM CELLS FROM TAIWAN COUNTRY CHICKEN	Taiwan
C	Ampika Thongphakdee	REPRODUCTIVE SCIENCE AND TECHNOLOGIES FOR ENHANCING WILDLIFE CONSERVATION: THAI EXPERIENCES	Thailand
C	Eufrocina P. Atabay	IMPROVED PREGNANCY THROUGH SYNCHRONIZED OVULATION AND FIXED TIME AI IN WATER BUFFALOES	Philippines
C	Jonathan T. Aaltonen	APPLYING ASSISTED REPRODUCTIVE TECHNOLOGIES TO WILDLIFE CONSERVATION MANAGEMENT	USA
C	Muhammad Usman Mehmood	EFFECT OF INSEMINATION TIMING FOLLOWING 5 OR 7 DAYS CIDR CO-SYNCH IN NILI RAVI BUFFALO HEIFERS	Pakistan
C	Nam-Hyung Kim	SPINDLE FORMATION AND ASYMMETRIC CELL IN MAMMALIAN OOCYTES	Korea

Theme	Presenter ( <b>alphabetical order</b> )	Paper Title	From
C	Nguyen Thi Hong	INVESTIGATION OF CYCLE SYNCHRONIZATION AND ARTIFICIAL INSEMINATION FOR BREEDING INDUSTRY IN RABBITS	Vietnam
C	Pei-Shiue Tsai	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	Tamas Somfai	COMPARISON OF TWO OOCYTE MATURATION MEDIA FOR IN VITRO PRODUCTION OF BLASTOCYSTS IN AN INDIGENOUS VIETNAMESE MINIATURE PIG	Japan
C	Thanh Quang Dang-Nguyen	GERMINAL VESICLE TRANSFER AS A RESCUE TOOL	Japan
C	Thomas B. Hildebrandt	THE ART OF ART IN WILD PATIENTS	Germany
C	Wanlaya Tipkantha	UPDATE ON REPRODUCTIVE TECHNOLOGIES FOR ENDANGERED CLOUDED LEOPARD	Thailand
D	Bertrand Pain	BAT STEM CELL LINES FOR BIODIVERSITY CONSERVATION AND VIRAL STUDIES	France
D	Boripat Siriaroonrat	RESEARCH AND CONSERVATION PROGRAMS AT ZPO	Thailand
D	Chia-Xin Lee	SEMEN CRYOPRESERVATION AND QUALITY OF FROZEN-THAWED SEMEN IN TAIWAN HOLSTEIN BULL	Taiwan
D	Hsiu-Lien Lin	SEPARATION OF ROOSTER SPERMATOZOA IN SILICA-BASED COLLOIDAL MEDIUM BY CENTRIFUGATION	Taiwan
D	Jun-Xia Wang	CRYOPRESERVATION OF PIG PANCREATIC ISLET WITH TREHALOSE CRYOPROTECTANT	China
D	Kazuhiro Kikuchi	INTERNATIONAL COLLABORATION FOR CONSERVATION AND UTILIZATION OF PIG RESOURCES - SATREPS ACTIVITY IN VIETNAM	Japan

Theme	Presenter ( <b>alphabetical order</b> )	Paper Title	From
D	Lilian P. Villamor	ANIMAL GENETIC RESOURCES THROUGH CRYOBANKING IN THE PHILIPPINES: MANAGEMENT INITIATIVES AND FUTURE DIRECTION	Philippines
D	Long Xie	EFFICIENT DERIVATION OF PRIMORDIAL GERM CELLS FOR GENETIC PRESERVATION OF INDIGENOUS CHICKEN	China
D	Yi-Chen Chen	IN VITRO CULTURE AND CHARACTERISATION OF DUCK PRIMORDIAL GERM CELLS	Taiwan
E	Rangsun Parnpai	HOW TO IMPROVE SUCCESS OF INTER-SPECIES SOMATIC CELL NUCLEAR TRANSFER IN ENDANGERED SPECIES	Thailand
E	Xiang-Xing Zhu	GENERATION OF TRANSGENIC-CLONED GUANGXI HUANJIANG XIANG PIGS SYSTEMICALLY EXPRESSING GREEN FLUORESCENT PROTEIN	China
E	Xi-jun Yin	DOUBLE-MUSCLED PIGS CLONED USING MSTN-DISRUPTED FIBROBLASTS	China
E	Zifei Liu	IGF2-H19 LOCUS METHYLATION STATUS IN CLONED GOAT FIBROBLAST CELLS	China
F	Huiyan Xu	BUFFALO OOCYTES MATURED IN VITRO WITH ACETYL-L-CARNITINE IMPROVES CRYOTOLERANCE DUE TO CHANGE IN MITOCHONDRIAL FUNCTION AND THE MEMBRANE LIPID PROFILE	China
F	Jeongwoo Kwon	INHIBITION OF MEK1/2 AND GSK3 (2I SYSTEM) AFFECTS EPIGENETIC MODIFICATION AND EARLY DIFFERENTIATION OF PORCINE PARTHENOTES	Korea

Theme	Presenter ( <b>alphabetical order</b> )	Paper Title	From
F	Jin-Hoi Kim	SINGLE CELL RNA-SEQ ANALYSIS PROVIDE DEEPER MOLECULAR INSIGHTS INTO ABNORMAL MATURATION OF TUBASTATIN A-TREATED MOUSE OOCYTES	Korea
F	Kyung-Tae Shin	THE TOXIC EFFECT OF AFLATOXIN B1 ON EARLY PORCINE EMBRYONIC DEVELOPMENT	Korea
F	Min-Jung Seong	CPEB2 IS REQUIRED FOR TIGHT JUNCTION ASSEMBLY FOR ESTABLISHMENT OF PORCINE TROPHECTODERM EPITHELIUM	Korea
F	Nguyen Thi Nhung	EFFECT OF DONER CELL TYPES ON THE DEVELOPMENT OF PIG EMBRYOS PRODUCED BY SOMATIC CELL NUCLEAR TRANSFER	Vietnam
F	Qing Guo	JNJ-7706621 IMPROVES THE IN VITRO DEVELOPMENT COMPETENCE OF PORCINE PARTHENOGENETIC ACTIVATION AND SOMATIC CELL NUCLEAR TRANSFER EMBRYOS	China
F	Xue-Fang Wang	TREATMENT WITH RESVERATROL DURING IN VITRO MATURATION IMPROVES PORCINE OOCYTE QUALITY AND EMBRYONIC DEVELOPMENT	China
F	Yu-Jin Jo	WHAMM PLAY ESSENTIAL ROLES IN SPINDLE FORMATION AND CAGE ACTIN MESH OF MATURING MOUSE OOCYTES	Korea
F	Zhao-Bo Luo	CO-TREATMENT WITH REP SOX AND LBH589 IMPROVES THE IN VITRO DEVELOPMENTAL COMPETENCE OF PORCINE SOMATIC CELL NUCLEAR TRANSFER EMBRYOS	China

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F	Zheng-Wen Nie	THIAMETHOXAM INHIBITS BLASTOCYSTS EXPANDING AND HATCHING VIA ACTIVATION OF ROS-INDUCED DNA DAMAGE CHECKPOINT IN PIGS	Korea
G	Jenn-Rong Yang	CURRENT DEVELOPMENT OF PORCINE EMBRYONIC STEM CELLS AND INDUCED PLURIPOTENT STEM CELLS IN TAIWAN	Taiwan
G	Kaiping Deng	CARCASS TRAITS, MEAT QUALITY, ANTIOXIDANT STATUS AND ANTIOXIDANT GENE EXPRESSION IN MUSCLE AND LIVER OF HU LAMBS FED PERILLA SEED	China
G	Mei-Fu Xuan	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	Shuting Wang	EXPRESSION AND LOCALIZATION OF MECP2 GENE IN THE REPRODUCTIVE ORGANS OF HU SHEEP	China
G	Xiaoxiao Gao	ROLES OF FIBROBLAST GROWTH FACTOR 9 AND LOC105611671 IN HU SHEEP TESTOSTERONE BIOSYNTHESIS	China
G	Ying-Jie Niu	PINK1 IS ESSENTIAL FOR MAINTENANCE OF MITOCHONDRIAL MORPHOLOGY IN PORCINE PREIMPLANTATION EMBRYOS	Korea
G	Yuka Miki	KNOCKOUT ANALYSIS OF OOCYTE-SPECIFIC MULTI-COPY GENE, OOG1	Japan
H	Pham Thi Kim Dung	ENHANCEMENT UTILIZATION OF REPRODUCTIVE TECHNOLOGY IN PIG HERDS OF VIETNAM TO MEET THE INDUSTRY DEVELOPMENT POLICY	Vietnam

Theme	Presenter ( <b>alphabetical order</b> )	Paper Title	From
H	Ruth Miclat-Sonaco	TECHNICAL TRAINING INPUT OF PIG REPRODUCTION IN LOCAL AND INTERNATIONAL FARMERS AT PHILIPPINE ITCPH	Philippines
H	Thanee Pak-Uthai	ECONOMIC INPUT OF LIVESTOCK DEVELOPMENT IN FARMER BASED THAILAND	Thailand
H	Xiaolei Yao	AGE-ASSOCIATED EXPRESSION OF VDR AND VIT D METABOLIZING ENZYMES IN MALE REPRODUCTIVE TRACT AND SPERM OF SHEEP	China