

IXth International Conference on Boar Semen Preservation
Sunday 11 – Wednesday 14 August 2019
Conference Program at a Glance

	MORNING	AFTERNOON	EVENING
Day 1 Sunday 11 August	Exhibition set-up Barrington Room	Registration from 2pm - 6pm. Check-in time 3 pm	6.00 pm Conference Reception BBQ on Fairway Lawn
Day 2 Monday 12 August	7.30am - Industry Exhibits open	12.30 – 1.30 pm Lunch and Industry Exhibits	7.00 pm Evening excursion and Dinner at Tamberlaine Winery (additional cost)
	8.00 – 10.30 am Keynote & Session 1	1.30 - 3.00 pm Poster Session	
	10.30 - 11.00 am Morning Tea and Industry Exhibition	3.00 – 3.30 pm Afternoon Tea and Industry Exhibition	
	11.00 am - 12.30 pm Session 2	3.30 – 5.30 pm Session 3	
Day 3 Tuesday 13 August	7.30am - Industry Exhibits open	12.00 - 1.00 pm Lunch and Industry Exhibits	7.00 pm Conference Dinner at Chateau Elan (included)
	8.00 – 10.00 am Session 4	1.00 - 3.00 pm Session 6	
	10.00 - 10.30 am Morning Tea and Industry Exhibition	3.00 - 3.30 pm Afternoon Tea	
	10.30am - 12.00 pm Session 5	3.30 - 5.30 pm Session 7	
Day 4 Wednesday 14 August	7.30am - Industry Exhibits open	12.15 - 1.15 pm Sit Down Farewell Lunch (Optional)	
	8.00 – 10.00 am Session 8		
	10.00 - 10.30 am Morning Tea and Industry Exhibition		
	10.30 am - 12.00 pm Session 9		
	12.00 – 12.15pm Closing ceremony		

**IXth International Conference on Boar Semen Preservation
Sunday 11 – Wednesday 14 August 2019**

Conference Program Detail

DAY 1 – SUNDAY 11TH AUGUST 2019

2:00PM - 5:00PM

Registration opens

Accommodation Check in 3:00pm

6:00PM - 8:00PM

Conference Reception BBQ on Fairway Lawn

DAY 2 - MONDAY 12TH AUGUST 2019

8:00AM - 8:15AM

Welcome Address

8:15AM - 9:00AM

Keynote Address

Chair: Roslyn Bathgate

8:15 AM **Dagmar Waberski**, *University of Veterinary Medicine, Hannover, Germany*

Application of preserved boar semen for artificial insemination: past, present and future challenges

9:00AM - 10:30AM

Session 1: Sperm preservation 1

Chair: Simon de Graaf

9:00 AM **Juan Rodriguez-Gil**, *Autonomous University of Barcelona, Spain*

Photostimulation and thermotaxis of sperm

9:40 AM **Sean Fair**, *University of Limerick, Ireland*

Implications of boar sperm kinematics and rheotaxis for fertility after preservation

10:30AM - 11:00AM

Morning Tea and Industry Exhibition

11:00AM - 12:30PM

Session 2: Sperm preservation 2

Chair: Chis Maxwell

11:00 AM **Inmaculada Parrilla**, *University of Murcia, Spain*

Boar semen proteomics and sperm preservation

Short Presentations

11:40 AM **Anaïs S Østergaard**, *GenePro, Wisconsin, United States*

Effects of cold shock and warming rate on boar semen *abs# 1.1*

11:55 AM **Isabel Barranco**, *University of Girona, Girona, Spain*

Relative GSTM3-abundance in fresh boar sperm is related to their cryotolerance *abs# 1.2*

12:10 PM **Pachara Pearodwong**, *Chulalongkorn University, Bangkok, Thailand*

Replacing egg yolk with lecithin in the semen extender compromises the quality of frozen-thawed boar sperm *abs# 1.3*

12:30PM - 1:30PM

Lunch and Industry Exhibits

1:30PM - 3:00PM

Poster Session

3:00PM - 3:30PM

Afternoon Tea and Industry Exhibition

3:30PM - 5:30PM

Session 3: Seminal Plasma

Chair: Nana Satake

3:30 PM **Xavier Druart**, *INRA, Nouzilly, France*

Seminal plasma as a marker of sperm function and fertility

4:10 PM **Marc Yeste**, *University of Oxford, UK*

Potential of seminal plasma to improve the fertility of frozen-thawed boar spermatozoa

4:50 PM **Shoba Ranganathan**, *Macquarie University, Sydney, Australia*

Bioinformatics approaches for improving seminal plasma proteome analysis

7:00PM - 10:00PM

Evening Excursion and Dinner at Tamburlaine Winery

DAY 3 - TUESDAY 13TH AUGUST 2019

8:00AM - 10:00AM

Session 4: Capacitation

Chair: tba

8:00 AM **Peter Sutovsky**, *University of Missouri, United States*

Boar semen improvement through sperm capacitation management, with emphasis on Zinc ion homeostasis

8:40 AM **Naomi Bernecic**, *University of Sydney, Australia*

Novel methods to detect capacitation-related changes in spermatozoa

Short Presentations

9:20 AM **Alfredo Medrano**, *National Autonomous University of Mexico, Cuautitlan Izcalli, Mexico*

The effect of pre-freeze cooling and melatonin on pig sperm plasma membrane fluidity and cryosurvival *abs# 3.1*

9:35 AM **Anne-Marie Luther**, *University of Veterinary Medicine Hannover, Hannover, Germany*

Multicolor flow cytometry visualization of storage-induced alterations of capacitation behavior in viable boar sperm. *abs# 3.2*

10:00AM - 10:30AM

Morning Tea and Industry Exhibition

10:30AM - 12:00PM

Session 5: Biotechnology

Chair: Naomi Bernecic

10:30 AM **Stefanie Kurtz**, *Friedrich-Loeffler-Institute, Mariensee, Germany*

Pre-determination of sex in pigs by application of CRISPR/Cas system for genome editing

11:10 AM **Jean Feugang**, *Mississippi State University, United States*

Treatment of boar sperm with nanoparticles for improved fertility

Short Presentation

11:50 AM **Kara Stewart**, *Purdue University, Indiana, United States*

Shotgun proteome analysis of seminal plasma proteins differentiate boars by reproductive performance *abs# 4.1*

12:00PM - 1:00PM

Lunch and Industry Exhibits

1:00PM - 3:00PM

Session 6: Quality control and Biosecurity

Chair: tba

1:00 PM **Darwin Reicks**, *Reicks Veterinary Research and Consulting, Minnesota, United States*

Effective biosecurity to protect studs and clients from emerging infectious disease

1:40 PM **Martin Schulze**, *Institute for the Reproduction of Farm Animals Schönow Inc, Germany*

New trends in production management in European boar studs

Short Presentations

2:20 PM **Julie Robinson**, *Kuster Research and Consulting Inc., Illinois, United States*
Prevalence and Economic Consequences of Chromosomal Abnormalities in the North American Boar Population *abs # 5.1*

2:35 PM **Marleen Broekhuijse**, *Topigs Norsvin Research Center, Beuningen, the Netherlands*
Dissection of variance for semen quality traits to assist boar AI stations *abs # 5.2*

3:00PM - 3:30PM

Afternoon Tea

3:30PM - 5:30PM

Session 7: Semen assessment

Chair: Robert Knox

3:30 PM **Gry Boe-Hansen**, *University of Queensland, Australia*
An update on boar semen assessments by flow cytometry and CASA

Short Presentations

4:10 PM **Jean Feugang**, *Mississippi State University, United States*
Exploring potential biomarkers for boar sperm cryopreservation using RNA-sequencing technology *abs# 6.1*

4:25 PM **Hsiu-Lien Lin**, *Taiwan Livestock Research Institute, Tainan, Taiwan*
Application of PrestoBlue™ to evaluate boar semen quality *abs# 6.2*

4:40 PM **Rudolf Grossfeld**, *Minitube GmbH, Tiefenbach, Germany*
Optimal sample volume for the eFlow system for boar semen concentration measurement with AndroVision® CASA *abs# 6.3*

7:00PM - 10:00PM

Conference Dinner at Chateau Elan

DAY 4 – WEDNESDAY 14TH AUGUST 2019

8:00AM - 10:00AM

Session 8: Artificial Insemination

Chair: Chis Maxwell

8:00 AM **Jessica Rickard**, *The University of Sydney, Sydney, Australia*

The fate of spermatozoa in the female reproductive tract: A comparative review

Short Presentations

8:40 AM **Inmaculada Parrilla**, *University of Murcia, Spain*

Pre-AI intrauterine seminal plasma infusions advance embryo development by up-regulating PI3K/AKT and MAPK/ERK signaling pathways? *abs# 7.1*

8:55 AM **Robert Knox**, *University of Illinois, Illinois, United States*

Effects of number of sperm and site of uterine semen deposition on conception rate and number of embryos in weaned sows receiving a single fixed time insemination *abs# 7.2*

Special Presentations and Roundtable

9:10 AM **Graeme Pope**, *Graeme Pope Consulting, Australia*

Status of pig AI in Australia

9:30 AM **Speaker tba**

Status of pig AI in South East Asia

10:00AM - 10:30AM

Morning Tea and Industry Exhibition

10:30AM - 12:00PM

Session 9: In vivo and in vitro fertilisation

Chair: Jessica Rickard

10:30 AM **Raquel Romar**, *University of Murcia, Spain*

Pig *in vitro* fertilization: where are we and where do we go?

11:10 AM **Jane Morrell**, *Swedish University of Agricultural Sciences, Sweden*

Effect of colloid centrifugation on boar sperm quality during storage and function in *in vitro* fertilization

12:00PM - 12:15PM

Closing ceremony

12:15PM - 1:15PM

Sit Down Farewell Lunch