



# Cryopreservation and Assisted Reproductive Technologies in Genetically Altered Animals

## Best practice, tips and tools

19<sup>th</sup> - 22<sup>nd</sup> April 2021, 14:00-16:15 (UTC+1)

### Programme

#### Monday 19<sup>th</sup> April - Introduction

*Chairs: Sarah Hart-Johnson & Caroline Chadwick*

14:00 - Welcome

14:10 - History of Cryopreservation/ART  
*Rob Taft, The JAX Centre for Genetics of Fertility and Reproduction, USA*

14:00 - Break

15:00 - Other species; Zebrafish ART  
*Jenna Hakkesteeq, UCL, UK*

15:20 - Other species; a journey to GA opossums  
*Sophie Wood, The Francis Crick Institute*

15:40 - Other Species; Conservation of Frogs  
*Cecilia Langhorne, Cancer Research UK, Beatson Institute*

16:00 - Questions & close of day 1

#### Tuesday 20<sup>th</sup> April - Best practices on Cryopreservation

*Chairs: Natalia Moncaut & Stuart Newman*

14:00 - Ovary Cryopreservation as a Tool for Rodent Colony Management  
*Thomas Kolbe, University of Veterinary Medicine, Vienna*

14:20 - Sperm Cryopreservation  
*Sue Allen, MRC Harwell, UK*

14:40 - An overview of Rat cryopreservation & latest refinements  
*Jean Cozzi, Charles River, France*

15:00 - Break

15:10 - Round table discussion; topics tbc depending on delegate interests  
Expert panel tbc

16:10 - Conclusions & close of day 2

**Wednesday 21<sup>st</sup> April - Assisted Reproductive Technology**

*Chair: Natalia Moncaut & Hannah Wardle-Jone*

- 14:00 - *In vitro* Fertilisation (IVF)  
Toru Takeo, Kumamoto University, Japan
- 14:45 - Hyperovulation  
*Katharine Mankelow, The Francis Crick Institute, UK*
- 15:00 - Intracytoplasmic Sperm Injection (ICSI)  
*Brendan Doe, Cancer Research UK Cambridge Institute*
- 15:15 - Break
- 15:25 - Poster discussions & networking
- 16:15 - Close of day 3

**Thursday 22<sup>nd</sup> April - Alternative uses for cryopreservation and ART**

*Chair: Stuart Newman & Sarah Hart-Johnson*

- 14:00 - Breeding applications  
*Michelle Stewart, MRC Harwell, UK*
- 14:20 - The value of archiving in the post CRISPR era'  
*Martin Fry, MRC Harwell, UK*
- 14:40 - Transport applications  
*Toru Takeo, Kumamoto University, Japan*
- 15:00 - Break
- 15:10 - Meet the Experts, small group discussion for network, troubleshooting and advice.  
Pre-booking required to secure your place
- 16:10 - Close of meeting.

