

# FSVO/UFAW/HSA Online Symposium – Humanely Ending the Life of Animals



3rd-4th November 2020



### Day 1 - Livestock

**Session Chairs:** Claudio Zweifel (*Federal Food Safety and Veterinary Office, Switzerland*) and Ngaio Beausoleil (*Massey University, New Zealand*)

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- 11.00 Welcome
  - Kaspar Joerger (Federal Food Safety and Veterinary Office, Switzerland)
- 11.05 Introduction and background to the meeting
  Huw Golledge (UFAW and HSA, United Kingdom) and Aline Steiner (University of Zürich, Switzerland)
- 11:30 **Keynote: Where there's will, there is a way** Mohan Raj (*Independent, United Kingdom*)
- 12:00 Asking chickens about feelings under exposure to CO<sub>2</sub> and alternatives to CO<sub>2</sub>. Novel animal model using broiler breeders
  - Sabine Gebhardt-Henrich, Abdulsatar Abdel Rahman, Thom Gent and Michael Toscano (Universities of Bern and Zurich, Switzerland; Swedish University of Agricultural Sciences, Sweden)
- 12:25 A novel stunning method of pigs with high expansion nitrogen foam: An initial study Cecilia Lindahl (Agriculture and Food, RISE Research Institutes of Sweden, Sweden)
- 12:50 Lunch

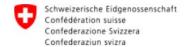
### Session 2

- 14:00 CO<sub>2</sub>.stunning of pigs. An example of behaviour during induction and overview of gas concentration and other key parameters during routine slaughter of pigs in modern low stress group stunning devices
  - Karen Von Holleben and Martin Von Wenzlawowicz (Training and consultancy institute for animal welfare, bsi Schwarzenbek, Schwarzenbek, Germany)
- 14:25 On-farm euthanasia of commercial meat rabbits. Evaluation of physical methods compared to gradual and fast-fill carbon dioxide gas exposure
  - Jessica Walsh, John Van de Vegte, Brianne Mercer, Aaron Percival and Patricia Turner (University of Guelph, Ontario Ministry of Agriculture, Food and Rural Affairs and Charles River Laboratories, Canada)
- 14:50 Low atmospheric pressure stunning in pigs: Insights from analgesic and anxiolytic interventions

  Jessica Martin, Emma Baxter, Marianne Farish, Julian Sparrey, Peter Tennant, Adrian Ritchie and

  Dorothy McKeegan (The Royal (Dick) School of Veterinary Studies and The Roslin Institute, University

  of Edinburgh and University of Glasgow, United Kingdom)
- 15.25 Panel discussion and wrap up
- 16:00 End



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### Day 2 - Laboratory

Session	<u>1</u>
10.15	Introduction to the day
10:30	Keynote: Connecting values and data for ethical euthanasia practices in the animal laboratory Larry Carbone ( <i>Independent</i> , <i>USA</i> )
11:15	CO <sub>2</sub> exposure as translational cross-species experimental model for panic Nicole Leibold ( <i>University of Maastricht, The Netherlands</i> )
11:40	Nitrogen gas as an alternative euthanasia agent for laboratory rodents Ellen Deelen and Esther Langen (Utrecht University. The Netherlands)
12:05	A systematic review of the welfare impact of CO <sub>2</sub> euthanasia on research mice and rats Patricia Turner (Charles River Laboratories, Canada)
12: 30	Lunch
Session	<u>2</u>
13:30	Evaluation of the well-being during euthanasia in less frequently used laboratory rodents  Debra Hickman (Indiana University, USA)
13: 55	Variation in rat CO <sub>2</sub> sensitivity Lucia Amendola and Daniel Weary ( <i>University of British Columbia, Canada</i> )
14:25	The use of an automated captive bolt for euthanasia of laboratory rats Stephanie Yam, Catherine Schuppli and Daniel Weary (University of British Columbia, Canada)
14:50	Assessment of environmental factors affecting the well-being of rats euthanized with carbon dioxide  Debra Hickman (Indiana University, USA)
15:15	Break

- 15:45 Understanding rat emotional responses to CO<sub>2</sub> Lucia Amendola and Daniel Weary (University of British Columbia, Canada)
- Attitudes of European and Canadian laboratory animal professionals and researchers towards 16:05 carbon dioxide euthanasia for rodents and perceptions of barriers for implementation of refinements
  - Michael Brunt, Lucia Améndola and Daniel Weary (University of British Columbia, Canada)
- 16.30 Panel discussion and wrap up
- 17:00 End