FSVO/UFAW Symposium:
Humanely ending the lives of animals

Bern, Switzerland
6-7 March 2024

Day One

Session One: Animals in Research

Invited speaker: Dr Pat Turner (Charles River Laboratories & University of Guelph, Canada)

Humanely ending the life of laboratory rats
Charlotte Calvet (University of Zurich, Switzerland)

Neurophysiological monitoring of the dying brain: the welfare consequences of hypobaric hypoxia and hypercapnic hypoxia in laboratory mice
Jasmine Clarkson (Newcastle University, UK)

Refining the drop method for isoflurane induction in mice
Maya Bodnar (University of British Columbia, Canada)

Etomidate Effectively Euthanizes Zebrafish (Danio rerio)
Kenzie Schwartz (Stanford University, USA)

Session Two: Slaughter of Livestock

The role of the EURCAW in refining the assessment of poultry and rabbits welfare at slaughter
Alexandra Contreras-Jodar (Animal Welfare Program, Institute of Agrifood Research and Technology (IRTA), Spain)

Comparison of 8 different inert gas (mixtures) to CO2 for stunning pigs at slaughter
Jonas Kroll

Improving automatic electric stunning systems for pigs as a viable and more ethical alternative to CO2
Lesley Moffat (Eyes on Animals, The Netherlands)

A review of indicators and sensor technologies to assess pig welfare at the slaughterhouse
Angela Ramon Perez (Autonomous University of Barcelona, Spain)

Session Three: “Pests”

Incorporating animal welfare into pathways for developing selective toxins for control of introduced animals
Ngaio Beausoleil (Massey University, New Zealand)

Using a naturally occurring sterility gene to humanely control house mouse pests
Andri Manser (University of Zurich, Switzerland)
Day 2

Session Four: Depopulation and Emergency Killing

Invited speaker: Dr Antonio Velarde (Institute for Food and Agricultural Research and Technology (IRTA), Spain)

New method for more humane euthanasia and emergency depopulation of pigs and poultry
Nicole Krefting (Heft AB, Sweden)

Towards a more humane depopulation of poultry in case of Avian Influenza
Louise Kremer (European Reference Centre for Animal Welfare for Poultry and other Small Farmed Animals, France)

Humane methods for killing day-old chicks
Birte Nielsen (Humane Slaughter Association, UK)

Session Five: Humane Killing of Aquatic Species for Food

Invited speaker: Dr Hans van de Vis (Wageningen University and Research (WUR), Netherlands)

Challenges of determining sensibility in fish
Jenny Bouwsema (Institute of Aquaculture, University of Stirling and Ace Aquatec, UK)

Current welfare issues in stunning and killing practices of farmed aquatic species in Thailand and Vietnam
Simão Zacarias (University of Stirling, UK)

Optimisation of electrical stunning in the decapod crustacean Norway lobster (Nephrops norvegicus)
Amaya Albalat (University of Stirling, UK)

Impact of electrical shock and analgesia in Norway lobster (Nephrops norvegicus)
Eleftherious Kasiouras (University of Gothenburg, Sweden)

Optimisation of in-water electrical stunning in tropical prawns (Penaeus vannamei)
Endre Putyora (University of Stirling, UK)