
Only presenting authors are given below.

Monday, 4 July 2022

starting at 17:00 **Registration**

At the **registration desk** (*SupAgro, Espace Philippe Lamour*), you will receive your conference badge, a printed program, your conference t-shirt, tickets for lunch & dinner, pins for mounting your poster(s), etc.

19:00-21:00 **Ice breaker party** (*Espace Philippe Lamour*)

Tuesday, 5 July 2022

All talks are in Room 1 (Amphithéâtre Philippe Lamour).

08:15-09:00 **Opening and welcome address** by WLS President, Chair of the LSG and WLC6 organizers

09:00-10:00 **Plenary talk**

Comparative life history trajectories between lagomorphs and larger herbivores: a pace and shape analysis

Jean-Michel Gaillard, *UMR CNRS 5558 – LBBE "Biométrie et Biologie Évolutive", Université Claude Bernard Lyon 1, France*

10:00-10:15 **Coffee break**

10:15-12:15 **Open session 1** (*short talks, 10+5 min each*)

O1 Recurrent evolution of winter coat colour polymorphism in mountain hares

José Melo-Ferreira, *CIBIO/InBio, University of Porto, Portugal*

O2 The evolution of seasonal camouflage in white-tailed jackrabbits in response to past and future climates

Paulo C. Alves, *CIBIO/InBio, University of Porto, Portugal*

- 03** What hares can tell us about fostering climate resilience for biodiversity
L. Scott Mills, *University of Montana, USA*
- 04** Current status of the Irish hare (*L.t. hibernicus*): genomics, population size and disease
Neil Reid, *Queen's University Belfast, UK*
- 05** No need to cull predators for enhancing brown hare (*Lepus europaeus*) populations in farmland
Darius Weber, *Independent wildlife consultant and researcher*
- 06** Influence of multiple predators decreases body condition and fecundity of European hares
Martijn Weterings, *van Hall Larenstein Leeuwarden, The Netherlands*
- 07** Rabbit and hare population status and management considerations in the eastern United States
David Osborn, *University of Georgia, USA*
- 024** Tularemia, common vole outbreaks and Iberian hare population trends: correlative evidence for “disease pit” situation
Carlos Rouco, *University of Cordoba, Spain*

12:15-13:45 **Lunch break**

13:45-14:45 **Plenary talk**

Hybridization and adaptive evolution in pikas
Deyan Ge, *Institute of Zoology, Chinese Academy of Sciences, Beijing, China*

14:45-15:30 **Open session 2** (*short talks, 10+5 min each*)

- 08** Contrasted effects of alpine landscape on gene flow in two sympatric hare species
Jérôme Letty, *Office Français de la Biodiversité (OFB), France*
- 09** Inference of positive selection in the evolution of major Lagomorph lineages
Joao Pedro Marques, *CIBIO/InBio, University of Porto, Portugal*
- 010** Dublin Hareport: increased aircraft related mortality of a resident population of Irish hare (*Lepus timidus hibernicus*) at Ireland's largest civil airport
Samantha Ball, *University College Cork, Ireland*

15:30-15:50 **Coffee break**

15:50-16:40 **Open session 3** (*short talks, 10+5 min each*)

O11 Two species, one pheromone? Evidence that the European rabbit *Oryctolagus cuniculus* and the Mexican cottontail *Sylvilagus cunicularius* share the same nipple-search pheromone

Robyn Hudson, *Universidad Nacional Autónoma de México, Mexico*

O12 Declining breeding success of the European hare in French farmland

Guillaume Souchay, *Office Français de la Biodiversité (OFB), France*

O13 Gimme, gimme shelter: Determining key habitat features used by desert cottontails (*Sylvilagus audubonii*) for improved habitat restoration and conservation

Samantha Bundick, *Colorado State University, Pueblo, USA*

16:40-17:00 **WLC6 group photo**

17:00-18:00 **Workshop Euro Leporid**

Organizers: Jérôme Letty (*OFB, France*), Guillaume Souchay, (*OFB, France*), Klaus Hackländer (*BOKU, Austria*), Paulo C. Alves (*University of Porto, Portugal*)

18:00-19:00 **Meeting IUCN Lagomorph Specialist group - LSG**

Wednesday, 6 July 2022

Talks are either in Room 1 (Amphithéâtre Philippe Lamour) or in Room 2 (Amphithéâtre 206). The posters are in Rooms 106 & 108.

08:30-08:45 **Announcements**

08:45-09:45 **Plenary talk – Room 1**

Chemosensory interaction and mother-young relationships in the European rabbit

Gérard Coureaud, *Centre National de la Recherche Scientifique, UMR 5292 - Centre de Recherche en Neurosciences de Lyon, France*

09:45-10:15 **Coffee break + Posters**

10:15-12:15 **Workshop – Room 1 (short talks, 10+5 min each)**

Lagomorph Taxonomy & Conservation

Organizer: Paulo C. Alves (*University of Porto, Portugal*)

T1 Updating the global conservation status and threat assessments for world Lagomorphs

Hayley C. Lanier, *University of Oklahoma, USA*

T2 Genetic diversity and population structure of the broom hare, *Lepus castroviejoi*

José Costa, *CIBIO/InBio, University of Porto, Portugal*

T3 Comparative landscape genomics of an imperiled native and invasive cottontail in the Northeastern US

Thomas J. McGreevy, *University of Rhode Island, USA*

T4 Systematics of the Eastern cottontail rabbit group species (Lagomorpha: Leporidae: *Sylvilagus floridanus*) from Southwestern North America to South America

Luis A. Ruedas, *Portland State University, USA*

T5 Introgressive hybridization promoted by climate change: a case study on hares (*Lepus* spp.)

Juliana Alves, *CIBIO/InBio, University of Porto, Portugal*

- T6** Phylogeography and ecological niche modeling unravel the evolutionary history of the Yarkand hare, *Lepus yarkandensis* (Mammalia: Leporidae), through the Quaternary

Brawin Kumar, *Chinese Academy of Sciences, China & Indian Institute of Science Education and Research, India*

- T7** Splitting hares: Current and future ecological niches predicted as distinctly different for two congeneric lagomorphs

Carlos P.E. Bedson, *Manchester Metropolitan University, UK*

10:15-12:15 **Workshop** – Room 2 (*short talks, 10+5 min each*)

Lagomorphs as a Model Morphological System 1

Organizers: Irina Ruf (*Seckenberg Forschungsinstitut und Naturmuseum, Frankfurt, Germany*), Brian Kraatz (*Western University of Health Sciences, Pomona, CA, USA*)

- M1** Computational biomechanical modelling of the rabbit and pika cranium during mastication

Alana C. Sharp, *University of Liverpool, UK*

- M2** The relationships among cranial shape, locomotor habit, and visual field within leporids

Brian Kraatz, *Western University of Health Sciences, USA*

- M3** Evolutionary integration of the leporid cranium

Emma Sherratt, *University of Adelaide, Australia*

- M4** Evolution of unique skull morphology and function in Lagomorphs: comparative phylogenetic, shape and complexity analyses

Amber P. Wood-Bailey, *University of Liverpool, UK*

- M5** Mechanobiology and adaptive plasticity in the Lagomorph skull and feeding apparatus

Matthew Ravosa, *University of Notre Dame, Indiana, USA*

- M6** Pulling the rabbit out of the hat: Revealing the development of lagomorphs in microCT scans

Rachel Racicot, *Vanderbilt University, USA*

12:15-13:30 **Lunch break**

13:30-15:45 **Workshop – Room 1** (*short talks, 10+5 min each*)

Present, Past and Future of (un)known Lagoviruses affecting Lagomorphs 1

Organizers: Joana Abrantes (*CIBIO, Portugal*), Ana M. Lopes (*CIBIO, Portugal*), Pedro J. Esteves (*CIBIO, Portugal*), Esther Blanco (*INIA, Spain*), Carlos Rouco (*Universidad de Córdoba, Spain*), Lorenzo Capucci (*IZSLER, Italy*), Antonio Lavazza (*IZSLER, Italy*), Ghislaine Le Gall-Reculé (*ANSES, France*), Stéphane Bertagnoli (*INRA-ENTV, France*), Stéphane Marchandeu (*OFB, France*), Hacina Ain Baziz (*ENSV d'Alger, Algeria*), Faten Ben Chehida (*ENMV de Sidi Thabet, Tunisia*)

- L1** Emerging European brown hare syndrome virus in *Lepus europaeus* in Spain
Josep Estruch Morente, *Universitat Autònoma de Barcelona, Spain*
- L2** Retrospective study in French and Belgian European hare populations gives new insights into European brown hare syndrome virus and rabbit haemorrhagic disease virus 2 (*Lagovirus europaeus*/GII.1 and /GI.2) epidemiology
Ghislaine Le Gall-Reculé, *ANSES, France*
- L3** Diagnostic efforts during an outbreak of rabbit haemorrhagic disease virus 2 (*Lagovirus europaeus* GI.2) in California, US (2020-2021)
Javier Asin, *University of California, Davis, San Bernardino, USA*
- L4** Multiple introductions of rabbit hemorrhagic disease virus *Lagovirus europaeus*/GI.2 in Africa
Faten Ben Chehida, *University of Manouba, Sidi Thabet, Tunisia*
- L5** Protecting the endangered riparian brush rabbit from emergent RHDV2 in California, USA
Deana Clifford, *California Department of Fish and Wildlife, USA*
- L6** Comparison of the impact of both variants of rabbit haemorrhagic disease on European wild rabbit populations based on Spanish national hunting bags
Juan Antonio Aguayo Adán, *Universidad de Córdoba, Spain*
- L7** Longitudinal semi-quantitative serological study of myxoma and rabbit haemorrhagic disease viruses in southwestern Iberian rabbit populations
Nuno Santos, *CIBIO/InBio, University of Porto, Portugal*

13:30-14:25 **Workshop** – Room 2 (*short talks, 10+5 min each*)

Lagomorphs as a Model Morphological System 2

- M7** Cranial anatomy of *Palaeolagus haydeni* from the Oligocene of North America: systematic and evolutionary implications
Irina Ruf, *Senckenberg Forschungsinstitut und Naturmuseum Frankfurt, Germany*
- M8** The cursoriality gradient revisited: How running ability affects limb bone proportions and integration patterns in lagomorphs
Ellen Martin, *University of Adelaide, Australia*
- M9** The timing of mountain hare (*Lepus timidus*) coat colour change in Norway is determined by elevation and latitude
Allan Stokes, *Inland Norway University, Norway*

14:30-15:45 **Workshop** – Room 2 (*short talks, 10+5 min each*)

Successes and Failures of European Rabbit Translocations

Organizer: Jasja Dekker (*Dierecologie, The Netherlands*)

- R1** Lessons from the 16th to 18th century and today for improving wild rabbit *Oryctolagus cuniculus* conservation
Jasja Dekker, *Jasja Dekker Dierecologie, Arnhem, The Netherlands*
- R2** How a single introduction of wild rabbits triggered the biological invasion of Australia
Joel M. Alves, *University of Oxford, UK*
- R3** Not born to be wild: the European rabbit in North America
Veronica Gventsadze, *Veterinarian in private clinical practice*
- R4** Wild European rabbit recovery plans: are we learning from the mistakes?
Isabel Pacios-Palma, *Doñana Biological Station, Spain*

15:45-16:00 **Coffee break**

16:00-17:30 **Poster session** in Rooms 106 & 108

Election of best poster; the ballots are in your conference bag.

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- 17:30-17:50 **Short plenary talk – Room 1**
The biological basis for the cultural importance of hares
Klaus Hackländer, *Institute of Wildlife Biology and Game Management, Vienna University of Natural Resources and Life Sciences BOKU, Austria*
- 17:50-18:40 **General Assembly of the World Lagomorph Society (WLS)**
in Room 1
- Start of buses at 19:00 **Conference dinner**
Buses will start in front of the conference building.

Thursday, 7 July 2022

Talks are either in Room 1 (Amphithéâtre Philippe Lamour) or in Room 2 (Amphithéâtre 206).

- 08:30-08:45 **Announcements**
- 08:45-09:45 **Plenary talk – Room 1**
Phylogenetic and taxonomic structure of modern pikas *Ochotona*
Andrey A. Lissovsky, *Severtsov Institute of Ecology and Evolution RAS, Moscow, Russia*
- 09:45-10:15 **Coffee break**
- 10:15-11:15 **Open session 4 – Room 1** (*short talks, 10+5 min each*)
- O14** Using genomic patterns of introgression to reconstruct the history of divergence between the sister broom and Corsican hares (*Lepus* spp.)
João Souto, *CIBIO/InBio, University of Porto, Portugal*
 - O15** Gastrointestinal parasite infestation in the Alpine mountain hare (*Lepus timidus varronis*): are abiotic environmental factors such as elevation, temperature and precipitation affecting prevalence of parasite species?
Stéphanie Schai-Braun, *University of Natural Resources and Life Sciences (BOKU), Austria*

- O16** Sex biases the flea (Siphonaptera) infection on wild Mexican cottontails (*Sylvilagus cunicularius*): report from a longitudinal study

Fernando Aguilar-Montiel, *Universidad Autónoma de Tlaxcala, Mexico*

- O17** Hare today gone tomorrow: the role of interspecific competition in shaping riverine rabbit occupancy and density

Zoe Woodgate, *University of Cape Town, South Africa*

11:15-12:15 **Short talks** – Room 1

Ecology, Behavior & Conservation 1 (10+5 min each talk)

- E1** Reproductive isolation between European rabbit subspecies informed by genome wide hybrid incompatibilities

Soraia Barbosa, *CIBIO, Portugal*

- E2** Decrease of European hare (*Lepus europaeus*) densities in a context of grassland-dominated areas: feasibility study of reinforcement operations involving captive-bred animals – first analyses

Léopold Berger, *Faune INNOV' R&D, Besançon, France*

- E3** Using faecal pellets to monitor the changes in mountain hare *Lepus timidus* and the European hare *Lepus europaeus* wintering distribution in the French Alps

Thibaut Couturier, *University Paul-Valéry Montpellier, EPHE, France*

- E4** Stable individual differences in the frequency of chin-marking behavior across development in the domestic rabbit (*Oryctolagus cuniculus*): What does it mean?

Yesenia Fernández, *Universidad Autónoma de Tlaxcala, Mexico*

11:15-12:15 **Workshop** – Room 2

Present, Past and Future of (un)known Lagoviruses affecting Lagomorphs 2 (short talks, 10+5 min each)

- L8** The role of recombination in the emergence and evolution of rabbit hemorrhagic disease virus (RHDV)

Joana Abrantes, *CIBIO, Universidade do Porto, Vairão, Portugal*

- L9** Recombination between viral genomes as a potential mechanism for speciation: the example of rabbit haemorrhagic disease type 2 (RHDV2) - BG12

Patrizia Cavadini, *IZSLER, Brescia, Italy*

- L10** Detection and differentiation of RHDV genotypes GI.1 and GI.2 by a duplex lateral flow assay
Esther Blanco, *Centro de Investigación en Sanidad Animal, Madrid, Spain*

12:15-13:45 **Lunch break**

13:45-15:15 **Short talks – Room 1**

Ecology, Behavior & Conservation 2 (10+5 min each talk)

- E5** Warming climate favours the spatial overlap between mountain and European hares at the top of the Alps
Valentina La Morgia, *Istituto Superiore per la Protezione e la Ricerca Ambientale, Italy*
- E6** The Faroes mountain hare (*Lepus timidus*) and hunting of hare in the Faroe Islands during the years 2012-2021
Eyðfinn Magnussen, *University of the Faroe Islands, Faroe Islands*
- E7** Experimental study on the reproductive seasonality of *Oryctolagus cuniculus* subspecies
Patricia H. Vaquerizas, *IESA-CSIC, Spain*
- E8** On the ecology of the Italian hare (*Lepus corsicanus*)
Maria Buglione, *University of Naples Federico II, Italy*
- E9** Reproductive cost in female European and mountain hare
Maria Ferloni, *Università degli Studi di Torino, Italy*
- E10** Long-term patterns of brown hare (*Lepus europaeus*) population dynamics in Vojvodina (Serbia) in relation to agriculture, climate and predation
Igor Ponjiger, *University of Novi Sad, Serbia*

13:45-15:15 **Workshop – Room 2**

Present, past and future of (un)known lagoviruses affecting lagomorphs 3 (short talks, 10+5 min each)

- L12** Understanding U.S. rabbit owners' willingness to engage in biosecurity measures to prevent transmission of RHDV2
Hannah Shapiro, *University of Georgia, USA*
- L13** National rabbit biocontrol optimisation - assessing the potential of RHDV2 as a registered biocide
Tanja Strive, *CSIRO Health & Biosecurity, Acton, ACT 2601 Australia*

L14 Leporid herpesvirus-4: potential new additional biocontrol for pest *Oryctolagus cuniculus*

David Peacock, *University of Adelaide, Australia*

15:15-15:45 **Coffee break**

15:45-17:15 **Open session 5 – Room 1** (*short talks, 10+5 min each*)

O18 Saving the striped rabbits: A conservation action plan for the Annamite and Sumatran striped rabbits

Jennifer McCarthy, *Lincoln University, USA*

O19 Drawing the baselines for the good management of a Mediterranean key species, the wild rabbit

Javier Fernández-López, *Universidad Complutense de Madrid, Spain*

O20 Serosurveillance of the myxoma virus in Iberian hares (*Lepus granatensis*) after the first outbreak

Beatriz Cardoso, *Universidade do Porto, Portugal*

O21 Absence of hepatitis E virus circulation in hares collected in Italy from 2019 to 2021

Antonio Lavazza, *IZSLER, Brescia, Italy*

O22 Multidisciplinary approaches to recovering an imperiled cottontail in the presence of competing threats in a heavily impacted system

Amanda Cheeseman, *South Dakota State University & SUNY College of Environmental Science and Forestry, USA*

O23 Abundance and habitat use of the insular endemic black jackrabbit (*Lepus insularis*) in Espiritu Santo Island, Gulf of California, Mexico

María José Moran Gutiérrez, *Centro de Investigaciones Biológicas del Noroeste, S.C., Mexico*

17:15-17:45 **Closing session / Poster prizes**

around 18:00 **Wine tasting**

Friday, 8 July 2022

08:00-19:00

Excursions

Details will be announced.