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WOAH Collaborative Centre Reports Activities 2024

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CENTRE INFORMATION

*Title of WOAHCollaborating Centre	Animal welfare
*Address of WOAHCollaborating Centre	Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise
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Website:	
*Name Director of Institute (Responsible Official):	Nicola D'Alterio, General Director
*Name (including Title and Position) of Head of the Collaborating Centre (WOAH Contact Point):	Daniela Morelli, Head of Foreign Diseases of Animals
*Name of the writer:	Luigi Iannetti, Lotta Berg

TOR 1 AND 2: SERVICES PROVIDED

1. Activities as a centre of research, expertise, standardisation and dissemination of techniques within the remit of the mandate given by WOAHC

Category	Title of activity	Scope
		To establish a network of animal welfare

<p>Animal welfare (true)</p>	<p>Enhancing Research For Africa Network (ERFAN), AW sub group for the SADC region OIE Twinning project on animal welfare between Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise-Italy (IZSAM) and the Ecole Nationale de Médecine Vétérinaire, Sidi Thabet, Tunisia (ENMV) EURCAW Ruminants & Equines, and the Care4Dairy project</p>	<p>experts in the SADC area, directly connected to local governments and research institutions, in order to develop common research activities and draft a shared strategy, aiming at ensuring a more effective implementation of the WOAH standards on animal welfare in these countries. An OIE (WOAH) Twinning project in the field of Animal Welfare has been designed, presented and approved in 2020. It is being implemented between the Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise "G. Caporale" (Parent Institute) and the École Nationale de Médecine Vétérinaire (ENMV) in Sidi Thabet (Candidate institute). IZSAM provides support to the North African candidate institute to enhance capacity and improve scientific capabilities in relation to animal welfare. Over a thirty-six month period, this Twinning project is mostly focusing on the Section 7 of the WOAH Terrestrial Animal Health Code (TAHC) and - in particular - on the slaughter of animals, killing of animals for disease control purposes, animal transport by land, and stray dog population control. The main goal is to improve the technical knowledge and skills of the Candidate Institute staff, to support the ENMV in the process that will eventually lead to acquire the status of WOAH Collaborating Centre for Animal Welfare. After the activities carried out in 2021, 2022 and 2023 (kick off meeting, preliminary assessment visit and 5 training courses), in May 2024 a workshop to draft a proposal of new legislation on animal welfare in Tunisia was carried out with the production of a draft of new Animal Health and Welfare Law, incorporating animal welfare principles from the chapter 7 of WOAH TAHC. The twinning was concluded in June 2024 with a final assessment meeting and a North African meeting on animal welfare. SLU/SCAW also contributed to final assessment meeting and to the North</p>
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		<p>African meeting on animal welfare. It was successful concluded in 2024. The final report has been sent to WOAHA in July 2024 and a positive evaluation has been received. The two partners, SLU/SCAW and IZSAM, have together with other highly qualified centres of research and expertise applied for, and been granted, the position as an EU Reference Centre for Animal Welfare with a focus on ruminants and equines. We have hereby been given the opportunity to systematically work for improving the knowledge and support to competent authorities on the animal welfare demands of these species, based on the well-functioning cooperation that we have developed as a WOAHA CC. This way, we will be able to convey knowledge and up-to-date research findings to the competent authorities in charge of animal welfare inspections, policy makers, and also to the dairy, beef and horse industry, as well as for other ruminants and equine species.</p> <p>Furthermore, we have now carried out a EU funded project called Care4Dairy, with a focus on improving farmer knowledge of animal welfare requirements and needs for dairy calves, heifers and cows, for example by developing digital factsheets on relevant topics. Also in this case, the consortium is based on the collaboration between SLU/SCAW and IZSAM, and other European centres of excellence in this field.</p>
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TOR 3: HARMONISATION OF STANDARDS

2. Proposal or development of any procedure that will facilitate harmonisation of international regulations applicable to the main focus area for which you were designated

Proposal title	Scope/Content	Applicable Area
FAO Good Emergency Management Practice manual (GEMP)	Technical Working Group for the revision of the Good Emergency Management Practice manual (GEMP)	Health Management

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<p>OFDA Office of U.S. Foreign Disaster Assistance "Strengthen regional and global coordination of animal health emergencies of international concern"</p>	<p>Technical working group FAO Emergency Management Centre for Animal Health</p>	<p>Health Management</p>
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3. In exercising your activities, have you identified any regulatory research needs* relevant for WOA?H?

No

4. Did your Collaborating Centre maintain a network with other WOA?H Collaborating Centres (CC), Reference Laboratories (RL), or organisations designated for the same specialty, to coordinate scientific and technical studies?

Yes

Name of WOA?H CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
<p>European Reference Centre for Animal Welfare - Ruminants and Equines</p>	<p>Sweden, Austria, France, Greece, Ireland, Italy</p>	<p>Europa</p>	<p>The objective of the EURCAW - Ruminants & Equines is to provide the EU Commission and EU Member States with support to knowledge building, implementation and enforcement of relevant legislation and capacity building</p>
<p>Enhancing Research For Africa Network (ERFAN)</p>	<p>Italy/SADC</p>	<p>África Europa</p>	<p>To strengthen the network of the WOA?H FP for animal welfare from SADC countries (South Africa, Namibia, Botswana, Zimbabwe, Zambia, Mozambique, Lesotho, eSwatini) built in the framework of ERFAN Sub-group for Animal Welfare</p>
<p>Federation of Veterinarians of Europe (FVE)</p>	<p>Brussels</p>	<p>Europa</p>	<p>To promote new initiatives in the framework of the WOA?H EmVetNet activities on animal welfare. Collaboration also in the framework of the Care4Dairy project</p>

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WOAH CC on Animal Welfare and Livestock Production Systems	Latin America	América	To promote the establishment of a WOAH Network of Animal Welfare Collaborating Centers.
Eurogroup for Animals	Belgium	Europa	Collaboration for capacity building on Animal Welfare
Nordic Network for Communicating Animal Welfare, NORDCAW	Nordic and Baltic countries	Europa	Network for Collaboration and Communicating Animal Welfare
European Centre for Animal Welfare-pigs	European countries	Europa	Collaboration with EURCAW-pigs
European Reference Centre for Animal Welfare - Poultry and Small Farmed Animals	European countries	Europa	Collaboration with EURCAW-Poultry and Small Farmed Animals
European Reference Centre for Animal Welfare - Aquatic Animals	European countries	Europa	Collaboration with EURCAW-Aquatic Animals
WOAH Network of Animal Welfare Collaborating Centres	Global	África América Asia y el Pacífico Europa Oriente Medio	WOAH Network of Animal Welfare Collaborating Centres. During the Global Forum on Animal Welfare in Merida (Mexico) on 26-27 October 2024 a representative of the WOAH CC participated to an ad hoc group to amend the Terms of Reference (draft document) of the network. The ToRs were later approved by this and other WOAH CCs and finally transmitted to WOAH headquarters.

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National Centre Group for Animal Welfare (NCGAW)	National Animal Welfare Centres	Europa	Collaboration with other National Animal Welfare Centres in Europe
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TOR 4 AND 5: NETWORKING AND COLLABORATION

5. Did your Collaborating Centre maintain a network with other WOAHC Collaborating Centres, Reference laboratories, or organisations in other disciplines, to coordinate scientific and technical studies?

Yes

Name of WOAHC CC/RL/other organisation(s)	Location	Region of networking Centre	Purpose
Reduction of the Risk of Disasters in Animal Health (CENSA)	Cuba	Americas	In the framework of the WOAHC network on veterinary emergencies
Biological Threat Reduction (IIAD)	USA	Americas	In the framework of the WOAHC network on veterinary emergencies

TOR 6: EXPERT CONSULTANTS

6. Did your Collaborating Centre place expert consultants at the disposal of WOAHC?

Yes

Name of expert	Kind of consultancy	Subject
Luigi Iannetti	Lead Expert	WOAHC Twinning project on animal welfare between Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise-Italy (IZSAM) and the Ecole Nationale de Médecine Vétérinaire, Sidi Thabet, Tunisia (ENMV)
Michele Podaliri Vulpiani, Francesco Cerasoli, Silvia D'Albenzio, Daniela Ciavarelli, Francesca Pompei, Ombretta Pediconi, Chiara Albanello,	Experts	WOAHC Twinning project on animal welfare between Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise-Italy (IZSAM) and the Ecole Nationale de Médecine Vétérinaire, Sidi Thabet, Tunisia (ENMV)

Emanuela Rossi, Annalisa Falconi, Massimo Fuina		
Luigi Iannetti, Michele Podaliri Vulpiani	Experts	WOAH Twinning project on animal welfare between Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise-Italy (IZSAM) and the Ecole Nationale de Médecine Vétérinaire, Sidi Thabet, Tunisia (ENMV). 2-day workshop for drafting and reviewing AW legislation (Tunis on 7-8 May 2024)
Michele Podaliri Vulpiani, Luigi Iannetti, Alessandro Ripani, Silvia D'Albenzio, Massimo Scacchia, Lena Tuominen, Francesca Pompei	Experts	WOAH Twinning project on animal welfare between Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise-Italy (IZSAM) and the Ecole Nationale de Médecine Vétérinaire, Sidi Thabet, Tunisia (ENMV). North African Meeting on Animal Welfare. (Tunis, 11-12 June 2024).
Luigi Iannetti, Michele Podaliri Vulpiani, Lotta Berg	Experts	WOAH Twinning project on animal welfare between Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise-Italy (IZSAM) and the Ecole Nationale de Médecine Vétérinaire, Sidi Thabet, Tunisia (ENMV): Final assessment meeting (Tunis, 13-14 June 2024)
Silvia D'Albenzio	Experts	WOAH Twinning project on animal welfare between Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise-Italy (IZSAM) and the Ecole Nationale de Médecine Vétérinaire, Sidi Thabet, Tunisia (ENMV): Coordination of the working group for the establishment of a permanent capacity building system in animal welfare in Tunisia
Lena Tuominen	Expert	WOAH Platform Action's bridging workshop on Disaster Management and Risk Reduction, 17-18 January 2024, in Lisbon, Portugal
Lena Tuominen, Lotta Berg	Experts	Online 22nd Meeting of the Platform's Steering Group (SG22) on 30 April 2024
Lotta Berg	Expert	WOAH Focal Point Training Meeting, Madrid, Spain on 25-27 June 2024
		Online Regional meeting on Disaster Management and Risk Reduction for Europe, 26

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Lena Tuominen	Expert	September 2024
Luigi Iannetti	Expert	6th WOAHA Animal Welfare Global Forum "Exploring how WOAHA Collaborating Centres can support Members to improve animal welfare". Merida, Mexico, 28-29 October 2024
Francesco Cerasoli, Luigi Iannetti	Experts	STOR/REMESA online training course on "Animal welfare during transport" in collaboration with IZSAM/SCAW WOAHA CC for AW and with WOAHA SRR of Bruxelles: part 1, 15 July 2024
Luigi Iannetti	Expert	STOR/REMESA online training course on "Animal welfare during transport" in collaboration with IZSAM/SCAW WOAHA CC for AW and with WOAHA SRR of Bruxelles: part 2, 11 October 2024
Daniela Morelli, Lena Tuominen	Experts	23rd Meeting of the Steering Group of the WOAHA Platform on animal welfare for Europe, 21-23 October 2024 in Vienna, Austria
Michele Podaliri Vulpiani, Luigi Iannetti	Experts	ERFAN Online Seminar "Dog population management: the new WOAHA standard and examples of the current situation in Northern Africa, Southern Africa and Italy" 19 March 2024

TOR 7: SCIENTIFIC AND TECHNICAL TRAINING

7. Did your Collaborating Centre provide advice/services to requests from Members in your main focus area?

No

8. Did your Collaborating Centre provide scientific and technical training, within the remit of the mandate given by WOAHA, to personnel from WOAHA Members?

Yes

a) Technical visit : 10

b) Seminars : 672

c) Hands-on training courses: 55

d) Internships (>1 month) : 0

Type of technical training provided (a, b, c or d)	Content	Country of origin of the expert(s) provided with training	No. participants from the corresponding country
	2-day workshop for drafting and reviewing AW legislation in the framework of the WOAHA Twinning		

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A	project on animal welfare between Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise-Italy (IZSAM) and the Ecole Nationale de Médecine Vétérinaire, Sidi Thabet, Tunisia (ENMV)	Tunisia	10
B	North African Meeting on Animal Welfare in the framework of the WOAHP Twinning project on animal welfare between Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise-Italy (IZSAM) and the Ecole Nationale de Médecine Vétérinaire, Sidi Thabet, Tunisia (ENMV)	Tunisia, Algeria, Morocco	30
B	Final meeting of the WOAHP Twinning project on animal welfare between Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise-Italy (IZSAM) and the Ecole Nationale de Médecine Vétérinaire, Sidi Thabet, Tunisia (ENMV)	Tunisia	25
B	ERFAN Online Seminar "Dog population management: the new WOAHP standard and examples of the current situation in Northern Africa, Southern Africa and Italy"	Algeria, Tunisia, Mozambique, Morocco, Zimbabwe, Namibia, South Africa, Ethiopia, Libya, Sudan, Italy, Egypt	82
B	LAS Laboratory Animal Science Webinar on National legislation and Ethics, Online, 9 and 12/12/2024	Italy, Switzerland and others	135
B	The Care4Dairy guidelines on animal welfare in the dairy sector. Webinar May 16, 2024	European countries	149
B	EURCAW R&E, Environmental enrichment for ruminants and equines Online, 20/9/2024	European countries	107
C	Clean animals and healthy hooves (Rena djur och friska klövar) training on dairy cattle, Nuntorp, Dalsland, Sweden 6 November 2024	Sweden	24

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C	Feeding and body condition scoring (Utfodring och hullbedömning av nötkreatur) training on beef cattle, Hedås & Molkom, Värmland, Sweden 12 November 2024	Sweden	20
C	Information system for managing veterinary activities in non-epidemic emergencies (SIVENE) Teramo, 15/02/2024	Italy	11
B	Ethics in animal research Teramo, 13/12/2024	Italy	19
B	EURCAW R&E, Visual and tactile contact in individually housed calves Online, 28/11/2024	European countries	87
B	Linee guida europee per il benessere animale nella filiera lattiero-casearia CONFAGRICOLTURA Roma, 26/3/2024	Italy	14
B	Road Show Care4Dairy Cuidando a nuestras vacas Madrid, 15/3/2024	Spain	24

TOR 8: SCIENTIFIC MEETINGS

9. Did your Collaborating Centre organise or participate in the organisation of scientific meetings related to your main focus area on behalf of WOA?H?

Yes

National/International	Title of event	Co-organiser	Date	Location	No. Participants
Internationally	STOR/REMESA online training course on "Animal welfare during transport" in collaboration with IZSAM/SCAW WOA?H CC for AW and with WOA?H SRR of	STOR/REMESA-WOA?H SRR Bruxelles	2024-01-07	Online	70

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	Bruxelles: part 1, 15 July 2024				
Internationally	STOR/REMESA online training course on "Animal welfare during transport" in collaboration with IZSAM/SCAW WOAHC CC for AW and with WOAHSRR of Bruxelles: part 2, 11 October 2024	STOR/REMESA-WOAH SRR Bruxelles	2024-01-10	Online	65

TOR 9: DATA AND INFORMATION DISSEMINATION

10. Publication and dissemination of any information within the remit of the mandate given by WOAHC that may be useful to Members of WOAHC

a) Articles published in peer-reviewed journals:

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- Staaf Larsson, B., Jansson, A., Holmberg, M., Winblad von Walter, L., Stéen, M., & Dahlborn, K. (2024). A comparison of three animal welfare assessment protocols applied to Swedish dairy cow herds. *Acta Agriculturae Scandinavica, Section A — Animal Science*, 1–12. <https://doi.org/10.1080/09064702.2024.2317708>
- Staaf Larsson, B., Dahlborn, K., & Jansson, A. (2024). Methods for assessing skin temperature in two breeds of dairy cows and their correlation to indoor and rectal temperature. *Acta Agriculturae Scandinavica, Section A — Animal Science*, 1–8. <https://doi.org/10.1080/09064702.2024.2435339>
- D'Onofrio F., Butler F., Krasteva I., Schirone M., Iannetti L., Torresi M., Di Pancrazio C., Perletta F., Maggetti M., Marcacci M., Ancora M., Di Domenico M., Di Lollo V., Cammà C., Tittarelli M., Sacchini F., Pomilio F., D'Alterio N., Luciani M. (2024). Integrative analysis of transcriptomic and immunoproteomic data reveals stress response mechanisms in *Listeria monocytogenes*. *Heliyon Volume 10, Issue 21e39832*. DOI: 10.1016/j.heliyon.2024.e39832
- Centorame, P., Iannetti, L., Pomilio, F., & Butler, F. (2024). Applying advanced predictive microbiology techniques to static and dynamic growth studies of *Listeria monocytogenes*. *EFSA Journal*, 22(S1), e221114. <https://doi.org/10.2903/j.efsa.2024.e221114>
- Berg, C., Lundmark Hedman, F., 2024. *Treinamento, serviços de aconselhamento, normas privadas e regulamentos oficiais de bem-estar animal – como podemos melhorar a compreensão humana, o bem-estar animal e a conformidade legislativa? (Training, advisory services, private standards and official animal welfare regulations – how can we improve human understanding, animal welfare and legislative compliance? In: Bem-estar Animal – como valor agregado nas cadeias produtivas da pecuária. Eds M. J. R. Paranhos da Costa & A. C. Sant'Anna. FUNEP, Jaboticalbal, Sao Paulo, Brazil. E-book ISBN: 978-65-5671-059-4. Capitulo 13, pp 111-118.*
- M. Roccaro, R. Salini, M. Pietra, M. Sgorbini, E. Gori, M. Dondi, P. E. Crisi, A. Conte, P. Dalla Villa, M. Podaliri, P. Ciaramella, C. Di Palma, A. Passantino, F. Porciello, P. Gianella, C. Guglielmini, G. L. Alborali, S. Rota Nodari, S. Sabatelli and A. Peli (2024). Factors related to longevity and mortality of dogs in Italy. *Preventive Veterinary Medicine*. doi:<https://doi.org/10.1016/j.prevetmed.2024.106155>
- M. Podaliri Vulpiani, F. Cerasoli, G. Giovagnoli, P. Catarci, G. Loffredo, A. Gaffuri, S. D'Albenzio, N. D'alterio. *Indagine sulla proprietà responsabile di equini in Italia [Survey on the responsible ownership of equids in Italy]*. *Large Animal Review 2024*; 30: 215-222.
- Ronchi, G.F.; Iorio, M.; Serroni, A.; Caporale, M.; Testa, L.; Palucci, C.; Antonucci, D.; Capista, S.; Traini, S.; Pinoni, C.; Di Matteo I., Laguardia C., Armillotta G., Profeta F, Valleriani F, Di Felice E., Di Teodoro G., Sacchini F., Luciani M., Di Pancrazio C., Podaliri Vulpiani M., Rossi E., Salini R., Morelli D., Ferri N., Mercante M.T., Di Ventura M (2024). The Safety and Efficacy of New DIVA Inactivated Vaccines Against Lumpy Skin Disease in Calves. *Vaccines 2024*, 12, 1302. <https://doi.org/10.3390/vaccines12121302>

b) International conferences:

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- Cerasoli F. (2024). WOAHA standard for animal welfare during air transport. STOR-REMESA Webinar «Animal Welfare in Animal Trades – Part 1», 11 July 2024.
- E. Atallah, F. Cerasoli, M. G. Riva, V. Antognoli, G. Saluti, F. Castellani, A. Manucci, G. Centorotola, M. Podaliri, L. Iannetti, E. Dalla Costa (2024). How can the seasonal climate changes influence horse's health and welfare in the extensive farming system? 75 th Annual Meeting of the European Federation of Animal Science. Florence, Italy 1-5 September, 2024
- G. Matteucci, F. Cerasoli, L. Iannetti, P. Migliaccio, M. Podaliri Vulpiani (2024). Enhancing Health and Welfare of Non-for-human-consumption (non-DPA) Horses: An Online Investigation. 75 th Annual Meeting of the European Federation of Animal Science. Florence, Italy 1-5 September, 2024
- Iannetti L. & Souilem O. (2024). The WOAHA twinning project on Animal Welfare between IZS Teramo (Italy) and ENMV (Tunisia). Oral presentation at North African Meeting on Animal Welfare. Tunis, 11-12 June 2024.
- Iannetti L. (2024). How an AW Collaborating Centre can support the development of national AW policies among WOAHA members. Oral presentation at the 6th WOAHA Animal Welfare Global Forum "Exploring how WOAHA Collaborating Centres can support Members to improve animal welfare" Merida, Mexico, 28-29 October 2024
- Iannetti L. (2024). Long distance transport of live animals: WOAHA standards and best practices including societal perception and communication aspects. Results of a WOAHA survey" STOR-REMESA Webinar «Animal Welfare in Animal Trades – Part 2», 11 October 2024.
- L. Iannetti, T. Bogdanova, S. Rota Nodari, S. Amiti, G. Finazzi, G. Matteucci, V. Di Marzio, M. Ferrara, G. Centorotola, L. Di Marcantonio, S. Scattolini, V. A. Acciari, M. Podaliri Vulpiani (2024). Animal welfare and microbiological meat safety at religious and conventional slaughtering: a comparative study. 75 th Annual Meeting of the European Federation of Animal Science. Florence, Italy 1-5 September, 2024.
- Podaliri Vulpiani M. & Iannetti L. (2024). Overview on WOAHA animal welfare standards. Oral presentation at North African Meeting on Animal Welfare. Tunis, 11-12 June 2024.
- Iannetti L. (2024). Guides to Good and Best practice for the welfare of heifers. Care4Dairy EU project Final Online Dissemination Meeting "The Care4Dairy guidelines on animal welfare in the dairy sector. Webinar May 16, 2024
- D'Albenzio S., Hanlon A. (2024). Disseminating Care4dairy project outcome. Care4Dairy EU project Final Online Dissemination Meeting "The Care4Dairy guidelines on animal welfare in the dairy sector. Webinar May 16, 2024
- Blokhuis H. (2024). The CARE4DAIRY project: scope, activities and methodology. Care4Dairy EU project Final Online Dissemination Meeting "The Care4Dairy guidelines on animal welfare in the dairy sector. Webinar May 16, 2024
- Veissier I., D'Albenzio S. & Falconi A. (2024) Frequency and quantity of milk feeding to dairy calves. EURCAW Ruminants & Equines webinar, May 15, 2024
- Brunet V., D'Albenzio S. & Falconi A. (2024) Environmental enrichment for ruminants and equines. EURCAW Ruminants & Equines webinar, September 20, 2024
- Schenkenfelder J., D'Albenzio S., Falconi A. (2024) Visual and tactile contact in individually housed calves. EURCAW Ruminants & Equines webinar, November 28, 2024
- Lundmark Hedman, F., Ewerlöf, I.R., Frössling, J. & Berg, C. 2024. Swedish dairy farmers' and trotting-horse trainers' perceptions of animal welfare inspections. Book of Abstracts of the 75th Annual Meeting of the European Federation of Animal Science (EAAP). 1-5 September 2024, Florence, Italy.
- Lundmark Hedman, F., Ewerlöf, I.R., Frössling, J. & Berg, C. 2024. Official and private animal welfare inspectors' view of carrying out inspections. Book of Abstracts of the 9th International Conference on the Welfare Assessment of Animals at Farm Level (WAFL). 30-31 August 2024, Florence, Italy.
- Berg, C., Brandt, I., 2024. Compliance with animal welfare legislation at slaughter. Proc. 6th annual meeting of the European Veterinary Congress of Behavioural Medicine and Animal Welfare. 3-4 October 2024, Paris, France. P 81.

c) National conferences:

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- Podaliri Vulpiani M. & Iannetti L. (2024). Care4Dairy: nuove linee guida europee per il benessere animale nella filiera di produzione del



latte bovino. Oral presentation at the congress "La zootecnia italiana cresce: quali traiettorie nel contesto globale?": Fieragricola, 1 February 2024, Verona, Italy.

- Podaliri Vulpiani M. & Iannetti L. (2024). *Le linee guida europee del progetto CARE4DAIRY per il benessere animale nella filiera lattiero-casearia*. Oral presentation at the conference "Linee guida europee per il benessere animale nella filiera lattiero-casearia" CONFAGRICOLTURA Palazzo Della Valle, Rome 26 March 2024
- Berg C. (2024): *Djurvälfärd för mjölkkor och kalvar-bästa praxis och riktlinjer från EU-projektet Care4Dairy*. Oral presentation at hybrid seminar/webinar organised together with Växa. 14 March 2024, Uppsala, Sweden.

d) Other (Provide website address or link to appropriate information):

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11. What have you done in the past year to advance your area of focus, e.g. updated technology?

The SAM TOOL 2.0 was developed at IZSAM and put at disposal of WOAHP member countries that can use it for self-assessment, as a web-based self-assessment and monitoring e-platform to assist countries in making progress on the agreed vision of full implementation of the WOAHP TAHC Chapter 7.7 on dog population management with a rabies component.

12. Additional comments regarding your report: