

International Congress on the Breeding of Sheep and Goats			
Opening and Greetings			
Time (UTC +2)	Title	Name	Institute
Thu. 10:00 – 10:10	Moderation	Bernhard Polten	Federal Ministry for Food and Agriculture (BMEL)
Thu. 10:15 – 10:25	Greeting and Opening	Julia Klöckner German Federal Minister for Food and Agriculture	Federal Ministry for Food and Agriculture (BMEL)
Thu. 10:25 – 10:35	Greeting from the city of Bonn	Mayor Gabriele Klingmüller	City of Bonn
Thu. 10:35 – 10:45	Greeting	Alfons Gimber	Association of German Sheep Breeding Associations
Thu. 10:45 – 10:55	Greeting	Bernd Merscher	Association of German Goat Breeding Associations

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Plenary Talks

Time (UTC +2)	Title	Name	Institute
Thu. 10:55 – 11:25	Climate change: Causes and observed trends	Susanne Crewell	University of Cologne Institute for Geophysics and Meteorology
Thu. 11:25 – 11:45	Global climate change: what to expect in the future?	Daniela Jacob	Climate Service Center Germany (GERICS) Helmholtz-Zentrum Geesthacht
Thu. 11:45 – 12:05	The role of small ruminants in poverty reduction and rural development	Mohammed Bengoumi	FAO Subregional Office for North Africa
Thu. 12:05 – 12:35	New opportunities for genomic selection in sheep and goats	Joanne Conington	Scotland's Rural College, Edinburgh, Scotland

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Block 1: Animal breeding and genetics: What will sheep and goat breeding look like in the future 1?

Chair: Prof. Dr. Gesine Lühken, Vice-Chair: Dr. Christian Mendel

Time (UTC +2)	Title	Name	Institute
Thu. 14:00 – 14:15	Central information processing in German sheep and goat breeding	Jens Wilkens	Vereinigte Informationssysteme Tierhaltung w.V., Verden / Aller, Germany
Thu. 14:15 – 14:30	Genetic evaluation for sheep in Germany	Wolfgang Ruten	IT-Solutions for Animal Production Verden, Germany
Thu. 14:30 – 14:45	MoBPS for sheep and goats – an innovative tool to design and optimize breeding programs	Henner Simianer	Animal Breeding and Genetics Group, Center for Integrated Breeding Research, University of Goettingen, Germany
Thu. 14:45 – 15:00	Early data from a community based breeding program indicates opportunity for genetic gain in Black Bengal goats owned by underprivileged rural women in Bihar State of India	Chanda Nimbkar	Nimbkar Agricultural Research Institute (NARI), Phaltan, India
Thu. 15:00 – 15:15	Development of a sustainable breeding programme in German sheep farming by using multi-live cover (MuNaSch)	Nina Ossowski	Institute of Animal Breeding and Husbandry Christian-Albrechts-University, Kiel
Thu. 15:15 – 15:30	Reproductive traits and dairy use potential of indigenous goats of South Kivu, DRC, can be identified by their tail	Patrick Baenyi	Department of Animal Production Université Evangélique en Afrique Bukavu, DR Congo

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Block 2: Animal breeding and genetics: What will sheep and goat breeding look like in the future 2?

Chair: Prof. Dr. Gesine Lühken, Vice-Chair: Dr. Christian Mendel

Time (UTC +2)	Title	Name	Institute
Thu. 16:00 – 16:15	Genomics to breed sheep resistant to footrot	Ottmar Distl	University of Veterinary Medicine Hannover Institute for Animal Breeding and Genetics
Thu. 16:15 – 16:30	High-resolution analysis of a QTL influencing sheep resistance to gastrointestinal nematode infection through whole-genome resequencing of a segregating trio	Beatriz Gutierrez-Gil	Animal Production, Faculty of Veterinary Sciences Campus de Vegazana, Universidad de León, Spain
Thu. 16:30 – 16:45	No doubt anymore: A simple genetic test to facilitate breeding for polledness in goats	Rebecca Simon	Institute of Animal Breeding and Genetics, Justus Liebig University, Giessen, Germany
Thu. 16:45 – 17:00	Analysis of Candidate Genes for Growth and Milk Performance Traits in the Egyptian Barki Sheep	Ibrahim Abousoliman	Leibniz Institute for Farm Animal Biology (FBN), Dummerstorf, Germany
Thu. 17:00 – 17:15	Assisted Reproductive Techniques in Sheep and Goats – Chances and Limits of alternative ways in breeding	Johanna Maria Meilwes	Clinic for Swine, Small Ruminants and Forensic Medicine, University of Veterinary medicine Hannover, Foundation
Thu. 17:15 – 17:30	The use of homologous seminal plasma before and during deep vaginal timed artificial insemination in sheep monitored by thermography and electrical impedance of vaginal mucous	Beste Cil	Department of Animal Reproduction and Artificial Insemination, Faculty of Veterinary Medicine, Ankara University, Turkey

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Block 3: Economy: How can the profitability of sheep and goat farming be improved?			
Chair: Prof. Dr. Stanislaus von Korn, Vice-Chair: Janine Bruser, Vice-Chair: Fides Marie Lenz			
Time (UTC +2)	Title	Name	Institute
Fri. 9:00 – 9:15	Keynote: Sheep and goats in the world and the importance of economy	Stanislaus v. Korn	Hochschule für Wirtschaft und Umwelt Nürtingen-Geislingen Institut für Angewandte Agrarforschung (IAAF)
Fri. 9:15 – 9:30	Assessment of the production of goat milk by means of performance cost accounting in terms of economic efficiency and influence of stock size	Isabel Sand	Kuratorium für Technik und Bauwesen in der Landwirtschaft (KTBL) Darmstadt, Germany
Fri. 9:30 – 9:30	An assessment of economic efficiency in German sheep farming - a nationwide analysis	Stanislaus v. Korn	Hochschule für Wirtschaft und Umwelt Nürtingen-Geislingen Institut für Angewandte Agrarforschung (IAAF)
Fri. 9:45 – 10:00	The Thuringian sheep and goat premium	Adriana Schwarz	Thüringer Ministerium für Umwelt, Energie und Naturschutz
Fri. 10:00 – 10:15	Weidewonne – bringing together lamb marketing and landscape conservation	Stefanie Schröter	Naturstiftung David, Projekt Weidewonne Brau, Germany
Fri. 10:15 – 10:30	Ways to improve the profitability of sheep farming with rare indigenous sheep breeds	Nathalie Ketterle	Kollektion der Vielfalt Zell, Germany

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Block 4: Environmental performance and climate change: What do sheep and goats contribute to climate change mitigation?

Chair: Prof. Dr. Thomas Döring Vice-Chair: Klaus Gerdes

Time (UTC +2)	Title	Name	Institute
Fri. 11:00 – 11:30	Keynote	Elisabeth Jonas	
Fri. 11:30 – 11:45	Adaptation to saline drinking water in goats	Alexander Riek	Institute of Animal Welfare and Animal Husbandry Friedrich-Loeffler-Institute Celle, Germany
Fri. 11:45 – 12:00	Anaplasma phagocytophilum in cattle, sheep and goats in Germany – results of a systematic review of the literature	Matthias Gerhard Wagener	University of Veterinary Medicine Hannover, Foundation Clinic for Swine and Small Ruminants Hannover, Germany
Fri. 12:00 – 12:15	Opportunities to mitigate GHG emissions from sheep and goat farming in Indonesia	Mohammad Ikhsan Shiddieqy	Indonesian Center for Animal Research and Development (ICARD) Bogor, Indonesia
Fri. 12:15 – 12:30	The impact and breeding perspectives of maternal energy metabolism profiles pre- and postpartum on lamb body weight development with special regard to ewe methane emission traits	Jessica Reintke	Institute of Animal Breeding and Genetics University of Giessen Giessen, Germany

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Special

Time (UTC +2)	Title	Name	Institute
Fri. 8:00 – 8:20	Lämmeraufzucht mit drei verschiedenen Methoden im Vergleich	Christian Mendel	
Fri. 8:20 – 8:40	Intelligente Parasitenbehandlung durch moderne Technik	Kerstin Riek	

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Block 5: Animal genetic resources: Diversity and characterization

Chair: Dr. Roswitha Baumung, Vice-Chair: Christian Gerlinger

Time (UTC +2)	Title	Name	Institute
Thu. 14:00 – 14:30	Keynote	Joanne Conington	Scotland's Rural College, Edinburgh, Scotland
Thu. 14:30 – 14:42	Genomic Characterization of Selection Signatures: what is the future for sustainable utilization of Ugandan Goat Breeds	Robert Boyle Onzima	Department of Agricultural Sciences, Faculty of Agriculture and Environmental Sciences (FAES), Kabale University, Uganda
Thu. 14:42 – 14:54	Morphological variability and geographical distribution of goat populations from Benin (West Africa)	Habib Whannou	Faculty of Agricultural Sciences, University of Abomey-Calavi
Thu. 14:54 – 15:06	Genetic Diversity and Maternal Origins of Indigenous Sheep Populations in North Ethiopia	Mulata Adhena	Department of Animal Breeding and Genetics Swedish University of agricultural Sciences (SLU) Uppsala, Sweden
Thu. 15:06 – 15:18	Discovery of casein variants in goats using capture sequencing	Siham Rahmatalla	Albrecht Daniel Thaer-Institut für Agrar- und Gartenbauwissenschaften Humboldt-Universität zu Berlin, Germany
Thu. 15:18 – 15:30	The origin and genetic diversity of Bangladeshi indigenous sheep: an updated perspective based on mitochondrial COI Sequences	Md. Abdul Alim	Animal Biotechnology Division, National Institute of Biotechnology Ganakbari, Ashulia, Savar, Dhaka, Bangladesh

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Block 6: Animal genetic resources: Implementation of policies and support

Chair: Dr. Roswitha Baumung, Vice-Chair: Christian Gerlinger

Time (UTC +2)	Title	Name	Institute
Thu. 16:00 – 16:12	Runs of homozygosity islands across 100 sheep and 96 goat populations reveal selection signatures	Wim Gorssen	Research group Livestock Genetics Faculty of Bioscience Engineering KU Leuven, Heverlee, Belgium
Thu. 16:12 – 16:42	Keynote	Fernando Tejerina Ampudia	
Thu. 16:42 – 16:54	The implementation of international commitments for animal genetic resources in Europe and Germany	Holger Göderz	Bundesanstalt für Landwirtschaft und Ernährung (BLE), Informations- und Koordinationszentrum für Biologische Vielfalt, Bonn
Thu. 16:54 – 17:06	The Krainer Steinschaf in Austria – a multilateral approach to in situ conservation of an endangered breed	Beate Berger	AREC Raumberg-Gumpenstein, Institute of Organic Farming and Biodiversity of Farm Animals Thalheim, Austria
Thu. 17:06 – 17:18	Is the German White-Headed Mutton Sheep an endangered breed?	Sowah Addo	Department of Animal Breeding University of Kassel Witzenhausen, Germany
Thu. 17:18 – 17:30	Marketing Situation and Concepts for Products of Endangered local Breeds of Sheep and Goats in Germany	Antje Feldmann	Gesellschaft zur Erhaltung alter und gefährdeter Haustierrassen e.V. (GEH) Witzenhausen, Germany

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Block 7: Management and animal welfare

Chair: Dr. Heiko Georg, Vice-Chair: Gerhard Schuh, Vice-Chair: Priv.-Doz. Dr. Pera Herold

Time (UTC +2)	Title	Name	Institute
Fri. 9:00 – 9:15	Keynote: Sheep production in Ireland – key factors influencing profitability	Tim Keady	Teagasc, Athenry, Co Galway, Ireland
Fri. 9:15 – 9:30	Development of an animal-friendly feeding system for horned goats – preliminary results	Bianca Greiner	Hochschule für Wirtschaft und Umwelt Nürtingen-Geislingen Nürtingen, Deutschland
Fri. 9:30 – 9:30	Influence of housing and management on claw health of Swiss dairy goats	Lisa-Marie Sailer	Federal Food Safety and Veterinary Office (FSVO) Centre for Proper Housing of Ruminants and Pigs Tänikon, Switzerland
Fri. 9:45 – 10:00	Welfare effects of introducing and separating/reintroducing individual goats	Antonia Patt	Institute of Animal Welfare and Animal Husbandry Friedrich-Loeffler-Institut, Celle, Germany
Fri. 10:00 – 10:15	Goat commercialisation through increasing productivity of homestead herds in South Africa	Marisia Geraci	Goat Agribusiness Project South Africa
Fri. 10:15 – 10:30	A topical anaesthetic wound formulation diminishes pain responses and improves wound healing of lambs at tail-docking	Delia Lacasta	Animal Pathology Department, Instituto Agroalimentario de Aragón Universidad de Zaragoza-CITA Zaragoza, Spain

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Block 8: Other topics

Chair: Prof. Dr. Claudia Klein, Vice-Chair: Dr. Bettina Bongartz

Time (UTC +2)	Title	Name	Institute
Fri. 11:00 – 11:30	Keynote: Team Schafe gegen Team Firma - Teambuilding und Leadership Training als zusätzliche Einkommensquelle für SchäferInnen	Hans-Peter Etzold	NatuerlichTeambuilding.de Andernach, Germany
Fri. 11:30 – 11:45	Zoonotic Diseases in Small Ruminants: Risks and Opportunities	Ben Bauer	University of Veterinary Medicine Hannover, Foundation, Clinic for Swine and Small Ruminants Hannover, Germany
Fri. 11:45 – 12:00	Comparative fattening and slaughter performance of four sheep breeds under practical farming conditions in northern Germany	Dirk Hinrichs	Section Animal Breeding, University of Kassel Witzenhausen, Germany
Fri. 12:00 – 12:15	Expression of genes related with fat metabolism in sheep influenced by use avocado flour in the diet	Pedro de Jesus Deniz Gonzalez	Universidad Autónoma de Nayarit Tepic, Nayarit, México
Fri. 12:15 – 12:30	Eutergesundheit bei hessischen Milchziegen und Milchschaafen	Irene Noll	Regierungspräsidium Gießen Wetzlar, Germany

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Block 9: Animal health: Parasitology

Chair: Prof. Dr. Martin Ganter, Vice-Chair: Dr. med. vet. Karl-Heinz Kaulfuß

Time (UTC +2)	Title	Name	Institute
Thu. 14:00 – 14:15	Potentials of using milk performance data as indicator for Targeted Selective Treatment in Lacaune dairy sheep in Switzerland	Steffen Werne	Research Institute of Organic Agriculture (FiBL) Frick, Switzerland
Thu. 14:15 – 14:30	Data of “Targeted selective Treatment” based on live weigh gain should be used for breeding for resistance against gastrointestinal nematodes	Martin Ganter	University of Veterinary Medicine Hannover, Foundation, Clinic for Swine and Small Ruminants, Hannover, Germany
Thu. 14:30 – 14:45	Discussion		
Thu. 14:45 – 15:00	Selfmedicative Behavior and Tanniferous Fodder Plants: Alteration in Taste Perception and Feed Preferences of GIN-Infected Boer Goats	Marvin Heuduck	Georg-August-University Department of Animal Sciences Goettingen, Germany
Thu. 15:00 – 15:15	Sainfoin pellets for preventive parasite control and improved protein efficiency in dairy goats	Steffen Werne	Research Institute of Organic Agriculture (FiBL) Frick, Switzerland
Thu. 15:15 – 15:30	Coccidiosis in small ruminants farms - case study in Trás-os-Montes (northeastern Portugal)	Helder Quintas	Centro de Investigação de Montanha (CIMO) Instituto Politécnico de Bragança, Portugal

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Block 10: Animal health: Locomotive apparatus and monitoring

Chair: Prof. Dr. Martin Ganter, Vice-Chair: PD Dr. Esther Humann-Ziehank

Time (UTC +2)	Title	Name	Institute
Thu. 16:00 – 16:15	Know how: The secret of successful lameness management	Heinz Strobel	Schafpraxis, Stoffenried, Ellzee, Germany
Thu. 16:15 – 16:30	Evaluation of prevalence and risk factors associated with virulent and benign <i>Dichelobacter nodosus</i> in German sheep breeds	Julia Storms	University of Veterinary Medicine Hannover Institute for Animal Breeding and Genetics Hannover, Germany
Thu. 16:30 – 16:45	Discussion		
Thu. 16:45 – 17:00	Study of antibiotic susceptibility against the main pathogens involved in fattening lambs pathology in Spain and Portugal	Jose Maria Bello Dronda	NANTA S.A. University of Zaragoza Small Ruminant ZARA, SPAIN
Thu. 17:00 – 17:15	Relevance of Selenium imbalances in sheep flocks and implications for herd health management consultancy	Esther Humann- Ziehank	LABVETCON – Laboratory Veterinary Consulting, Burgdorf, Germany
Thu. 17:15 – 17:30	Exploiting scanning surveillance data to assess the impact of different initiatives and inform future strategies to control sheep scab	Eilidh Geddes	School of Veterinary Medicine University of Glasgow United Kingdom

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Block 11: Animal health: Reproduction

Chair: Prof. Dr. Martin Ganter, Vice-Chair: Dr. Henrik Wagner

Time (UTC +2)	Title	Name	Institute
Fri. 9:00 – 9:15	The trouble with the reproduction – Chosen problems of the small ruminants	Henrik Wagner	Clinic for Obstetrics, Gynaecology and Andrology for Large and Small Animals with Veterinary Ambulance, Justus-Liebig-University Giessen, Germany
Fri. 9:15 – 9:30	Coxiella burnetii on Dutch dairy sheep farms between 2006 and 2020	René van den Brom	Royal GD, Deventer, Netherlands
Fri. 9:30 – 9:30	Investigation of abortions in small ruminants in Greece due to Chlamydia abortus	Nektarios Giadinis	Clinic of Farm Animals, School of Veterinary Medicine, Thessaloniki, GREECE
Fri. 9:45 – 10:00	Ultrasound findings of common genital pathologies in small ruminants	Mário Balaro	Department of Pathology and Clinical Veterinary, Faculty of Veterinary, Fluminense Federal University, Niteroi, RJ, Brazil.
Fri. 10:00 – 10:15	Chronic Mycotoxicosis in a dairy goat farm in Brazil	Mário Balaro	Department of Pathology and Clinical Veterinary, Faculty of Veterinary, Fluminense Federal University, Niteroi, RJ, Brazil.

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Block 12: Structures of and prospects for sheep and goat farming, sustainability

Chair: Dr. Reinhard Reents, Vice-Chair: Dr. Jens Wilkens

Time (UTC +2)	Title	Name	Institute
Fri. 11:00 – 11:15	Sustainability assessment of Sheep and Goat Production Systems in Peri-urban areas of southern Benin (West Africa)	Bossima Ivan Koura	School of Management and Exploitation of Livestock Systems, National University of Agriculture Ketou, Benin
Fri. 11:15 – 11:30	Characteristics of goat transhumance and its benefits for environmental sustainability	Sezen Ocak Yetisgin	Ondokuz Mayıs University Faculty of Agriculture, Department of Animal Science Samsun, Turkey
Fri. 11:30 – 11:45	Strategies for improving feed management of Batur sheep on smallholder farmers in Batur District	Gresy Eva Tresia	Indonesian Center for Animal Research and Development Indonesia
Fri. 11:45 – 12:00	What policy and future do sheep and goats need in Iran	Farhad Mirzaei	Aryan Rural & Nomads Animal Production Management Association Iran
Fri. 12:00 – 12:15	Evaluation of dried citrus pulp based total mix ration (TMR) for mutton (goat) production	Abdur Rahman	Department of Animal Sciences University of Veterinary and Animal Sciences Jhang Campus, Pakistan
Fri. 12:15 – 12:30	Effects of supplementation with graded levels of pigeon pea foliage on the performance of Arsi-Bale goats fed a basal diet of maize stover treated with effective microorganisms	Eleni Assegid Worku	Department of Animal and Range Science Wolaita Sodo University, Ethiopia

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Summaries

Chair: Prof. Dr. Bernt Guldbbrandtsen

Time (UTC +2)	Title	Name
Fri. 14:00 – 16:00	Animal breeding and genetics: What will sheep and goat breeding look like in the future?	Christian Mendel
	Economy: How can the profitability of sheep and goat farming be improved?	Janine Bruser
	Environmental performance and climate change	Thomas Döring
	Animal genetic resources	Christian Gerlinger
	Management and animal welfare	Gerhard Schuh
	Other topics	Bettina Bongartz
	Animal health: Parasitology	Karl-Heinz Kaulfuß
	Animal health: Locomotive apparatus and monitoring	Esther Humann-Ziehank
	Animal health: Reproduction	Henrik Wagner
	Structures of and prospects for sheep and goat farming, sustainability	Jens Wilkens
Fri. 16:00	Conclusion and closing remarks	Bernhard Polten