



The LIFE PASTORALP final conference
GLOBAL CHALLENGES IN MOUNTAIN AGROPASTORAL SYSTEMS
Scientific evidence on impacts, adaptation and policies

Conference Programme

Day 1 (15/03/2023) - Conference opening, keynote talks and discussion with policy makers and stakeholders (a simultaneous translation service will be provided during the day).

Moderator: Marta Galvagno (ARPA Valle d'Aosta)

14.00 - 14.40 Registration and Welcome coffee

14.45 - 15.15 Opening and Welcome

15.15 - 15.30 **Camilla Dibari** - University of Florence: *"The LIFE Pastoralp project"*

15.30-16.00 **Carolina Adler** - Executive Director Mountain Research Initiative, Lead Author for the Intergovernmental Panel on Climate Change (IPCC): *"Climate change in mountain regions: key findings from the IPCC's sixth assessment and prospects for climate-resilient mountain social-ecological systems"*

16.00-16.30 **Uta Schirpke** - Eurac Research, Institute for Alpine Environment; University of Innsbruck, Department of Ecology: *"Global change impacts on ecosystem services of mountain grassland"*

16.30-17.00 **Maria Luisa Paracchini** - European Commission, Joint Research Centre, Sustainable Resources Directorate: *"Integrating scientific results into EU nature protection and restoration policies"*

17.00-17.30 **Alessandro Rota** - Assessorato Agricoltura e Risorse Naturali, Politiche regionali di sviluppo rurale: *"Pastoralp results in operational tools for rural development programme 2023/27"*
- closing remarks and discussion

18.00-20.00 Ice breaker aperitif

Day 2 (16/03/2023) - Scientific conference (in English language)

9.00 - 9.30 Registration

9.30 - 10.30 **Session 1: Challenges and opportunities for mapping and modelling agropastoral Systems. Moderator: Edoardo Cremonese (ARPA Valle d'Aosta)**

Analysis and conservation of secondary grasslands: the case of Maiella National Park. **Gigante, D.***; Angelucci, S.; Morbidini, L.; Pauselli, M.; Vizzari, M.; Di Cecco, V.; Bonini, F.; Madonna, L.; Valenti, B.; Di Martino, L. | *Dip. Scienze Agrarie, Alimentari e Ambientali, Università di Perugia, Italy

Large-scale mapping of shrublands in altitude pastures using the 20-m Sentinel-2 Normalized Anthocyanin Reflectance Index (NARI). **Bayle, A.***; Choler, P. | *Univ. Grenoble Alpes, Univ. Savoie Mont Blanc, CNRS, LECA, Grenoble, France

Characterization of Alpine Pastures using Multitemporal Earth Observation Data within the Climate Change Framework. **Orusa, T.***; Farbo, A.; De Petris, S.; Sarvia, F.; Cammareri, D.; Borgogno-Mondino, E. | *Department of Agricultural, Forest and Food Sciences (DISAFA), GEO4Agri DISAFA Lab, Università degli Studi di Torino, Italy

Incorporating ecotone monitoring into alpine land management and biodiversity conservation: a pilot study from the Chamonix valley. **Carlson, B.***; Bayle, A.; Bison, M.; Boulangeat, I.; Delestrade, A. | *CREA Mont-Blanc, France

10.00 - 11.30 Poster session & Coffee break

11.30 - 12.30 **Session 2: Challenges and opportunities for mapping and modelling agropastoral systems & Climate change impacts, adaptation and mitigation. Moderator: Giovanni Argenti (Università di Firenze)**

Monitoring pasture vegetation using satellite remote sensing: which images and workflow? **Oriani, F.***; Aasen, H.; Schneider, M.; | *Agroscope - Swiss Center of Excellence for Agricultural Research, Switzerland

GPS tracking: Opportunities for a better understanding of the interactions between pastoralism and vegetation in high altitude pastures. **Perron, R.***; Garel, M.; Bayle, A.; Choler P. | *Univ. Grenoble Alpes, Univ. Savoie Mont Blanc, CNRS, LECA, Grenoble, France

Animal-borne sensors to monitor pastoral systems: opportunities and challenges. **Schneider, M.***; Pauler, C. | *Agroscope - Swiss Center of Excellence for Agricultural Research, Switzerland

Pastoral management and climate have a comparable effect on the variation of botanical composition of alpine pastures: an evaluation over a 20-year time span. **Pittarello, M.***; Nota, G.; Marengo, G.; Lombardi, G.; Lonati, M. | *University of Torino, Department of veterinary sciences, Italy

12.30 - 14.30 Lunch break

14.30 - 15.30 **Session 3: Climate change impacts, adaptation and mitigation. Moderator: Gianni Bellocchi (INRAE)**

Yield and nutritional quality of drought-resistant leys under extreme and contrasting climatic conditions. **Probo, M.***; Dereuder, E.; Frick, R.; Frund, D.; Raymond, B.; Mariotte, P. | *Grazing Systems, Agroscope, Switzerland

Quantifying the environmental effects of pasture restoration through scrubland clearing combined with livestock management. **Pascual, D*.**; Pla, E.; Nadal-Romero, E.; Zabalza Martínez, J.; Lasanta T.; Foronda, A.; Reiné, R.; Barrantes, O.; Pueyo, Y.; Lana-Renault, N.; Ruíz-Flaño, P. | *CREAF, Barcelona, Spain

Re-grazing of abandoned mountain pastures to maintain soil functions and biodiversity? The case study "Brunnenkopfbalm". **Dannenmann M.***; Jentsch A.; von Heßberg A.; Ramm E. | *KIT (Karlsruhe Institut for Technology), Campus Alpin; Garmisch-Patenkirchen, Germany

Using robust ruminants to preserve mountain pastures under global change conditions. **Pauler, C.M.***; Lüscher, A.; Kreuzer, M.; Berard, J.; Schneider, M.K. | *Agroscope, Forage Production and Grassland Systems, Switzerland

15.00 - 16.30 Poster session & Coffee break

16.30 - 17.30 **Session 4: Governance under global changes: the interface between policy and Science. Moderator: Philippe Choler (LECA)**

A conceptual model of mountain socio-ecological systems to support multi-stakeholder collaborations on the governance of mountain regions and agropastoral systems. Cristofari, H., **Urbach, D.***; Otero, I.; Reynard, E.; Guisan, A.; Randin, C. | *Global Mountain Biodiversity Assessment, Assessment, Institute for Plant Sciences, University of Bern, Switzerland

Pyrenean Climate Change Strategy at the crossroads of science and political agenda at regional level. Vergèr D*.; Terrádez Mas J.; García Balaguer E.; **Pascual, D.** | * Pyrenean Climate Change Observatory (OPCC) of the Working Community of the Pyrenees, Spain

The national school of pastoralism (SNAP): first realisations. **Battaglini L.***; Barbera F.; Bindi L.; Franca A.; Claps S.; Storti D.; Membretti A.; Omizzolo A.; Semplici G.; Nori M.; Arneodo G.; Tallone G.; Di Meglio F.; | * DISAFA, University of Torino, Italy

A multi-taxa approach in mountain ecosystems. **Cerrato C.***; Ghidotti, S.; Rocchia, E.; Aimone, B.; Bionda, R.; Movalli, C.; Pedrotti, L.; Vettorazzo, E.; Viterbi, R. | * Gran Paradiso National Park, Italy

Does the flexibility of resource governance regimes illustrate their sustainable adaptation? An analytical framework based on the concept of flexible socio-ecological systems to identify the adaptability of agropastoralism to global uncertainties. **Sarrazin, C.***; Napoleone, C.; Targetti, S. | * INRAe (Ecodéveloppement)

18.00 - 20.00 Aperitif

Day 3 (17/03/2023) - Project networking, on invitation (in English language)