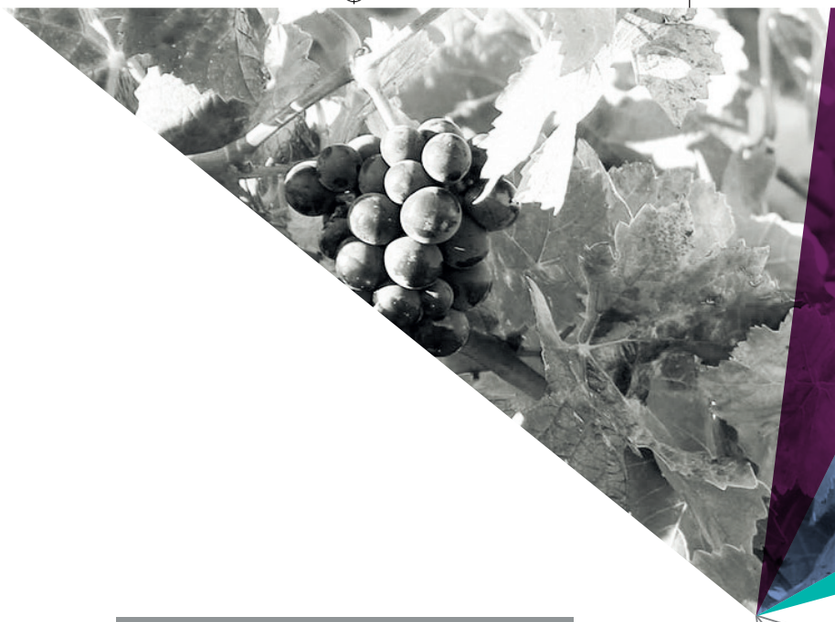

COST Action
CA17111
INTEGRAPE

Data integration to maximise the power of omics for grapevine improvement

Start of Action 10. 09. 2018
End of Action 09. 09. 2022

Funded by the Horizon 2020 Framework Programme of the European Union

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At the moment 22 European countries, 3 COST near neighbour countries and 2 COST International Partner Countries are involved in COST Action CA17111.

Work is organized in 4 working groups:

WG1. Data interoperability and definition of minimal contextual data standards

WG2. Interoperability of infrastructures and web services

WG3. Data analysis and best practices

WG4. Dissemination and user community assessment of guidelines and recommendations

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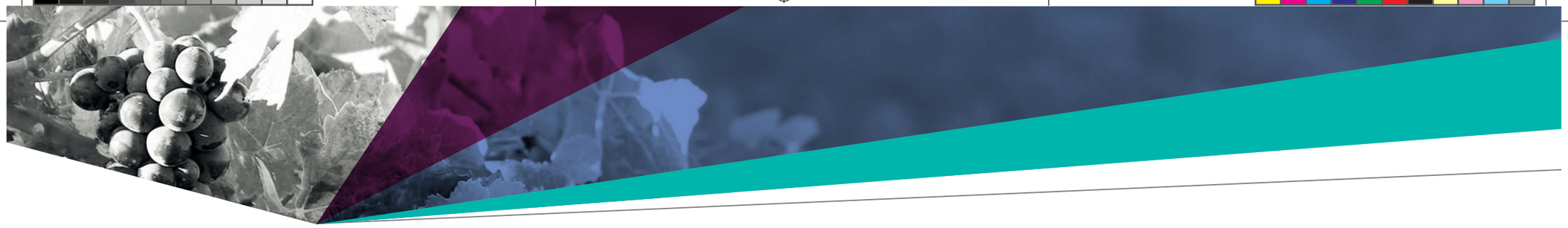

Action Leadership Positions

Action Chair
Prof Mario PEZZOTTI (IT)

Action Vice Chair
Dr Anne-Francoise ADAM-BLONDON (FR)

Wok Group Leaders
WG 1: Prof Reinhard TOEPFER
WG 2: Dr Paul KERSEY
WG 3: Prof Johan TRYGG
WG 4: Prof Dragan NIKOLIĆ

Science Communication Manager
Prof Marina DERMASTIA

STSM Coordinator
Dr Ana Margarida FORTES

ITC Conference Manager
Prof Astrid FORNECK

Science officer of the Action
Dr Ioanna STAVRIDOU

Administrative officer of the Action
Ms Cassia AZEVEDO

COST Action
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The COST Action INTEGRAPE will bring together all stakeholders in the grapevine research community (academic, industry, policymakers and consumers) in an open, international, and representative network to develop minimal data standards and good practices in order to integrate data repositories and improve interoperability between datasets. The ultimate objective is to harness and exploit all available data to achieve better management practices and more cost-effective breeding for improved genotypes.

Grapevine is grown worldwide to produce fresh berries, processed fruits and wine. The major challenge is to control berry composition and maintain yields while limiting the use of pesticides, water and other inputs, thus adapting the industry to climate change while achieving environmental and economic sustainability. Grapevine research focuses on interactions between the genotype, phenotype and environment, and information must be integrated from heterogeneous datasets including ampelography, environmental biology, genetics, genomics, epigenomics, transcriptomics, proteomics and metabolomics. The data are currently dispersed and difficult to access, hindering meta-analysis (the re-use of grapevine data beyond the original experiments).

No institution working in the field of grapevine research has yet taken on the mission to improve data integration and interoperability at the global level, although the grapevine research community is continuously producing large datasets. The concepts described will support stakeholders by developing innovative strategies to integrate grapevine data from existing resources and new experiments in a cost-effective manner, as well as making interoperable grapevine datasets and tools available in a secure and standardised format.