

“INTEGRAPE”



Chair: Mario Pezzotti

COST: since 1971 proven track record in networking of researchers

Creating spaces where ideas and people can grow

Unlocking the full potential of research through networking

Enhancing the societal impact of research and promoting excellence

Policy

- Less research intensive countries
- Unrepresented gender
- Early career investigators

COST Member Countries

EU 28

EU Candidates and Potential Candidates

Albania
Bosnia and Herzegovina
fYR Macedonia
Montenegro
Republic of Serbia
Turkey

Other countries

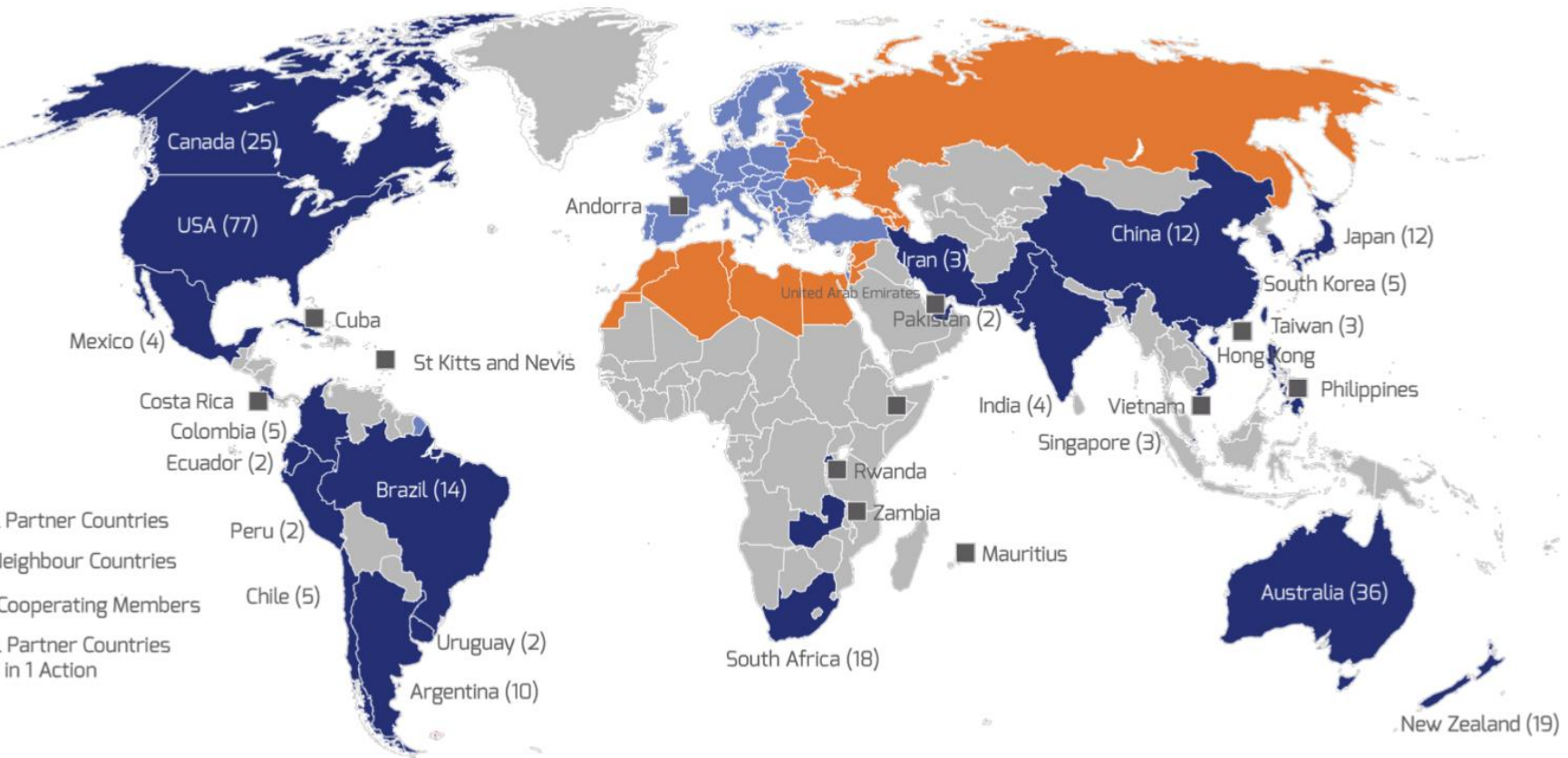
Iceland
Norway
Switzerland

COST Cooperating Member

Israel



NNC and IPC



COST Actions

- **Bottom-up** science and technology networks **open** to researchers and stakeholders and all S&T disciplines
- About 250 running COST Actions
- COST Actions operates through a range of networking tools



**TRAINING
SCHOOLS**



**SHORT-TERM
SCIENTIFIC MISSIONS
and ITC CONFERENCE
GRANTS**



**DISSEMINATION
ACTIVITIES**



**CONFERENCES /
WORKSHOPS**

Early Career Investigators (ECI) and Gender Balance

Encourage ECIs* and underrepresented gender to engage in active participation and take-up leadership roles.

E.g. leadership roles in the Action (e.g. Grant Holder, WG Leader) and/or benefitting from COST networking tools, in particular STSMs, Training Schools and ITC Conference Grants.

*Early Career Investigators → up to 8 years from PhD degree

COST Action Structure

**COST
Association**

**GRANT HOLDER
(GH)**

**MANAGEMENT
COMMITTEE
(MC)**

**Action Chair
Action Vice-Chair**

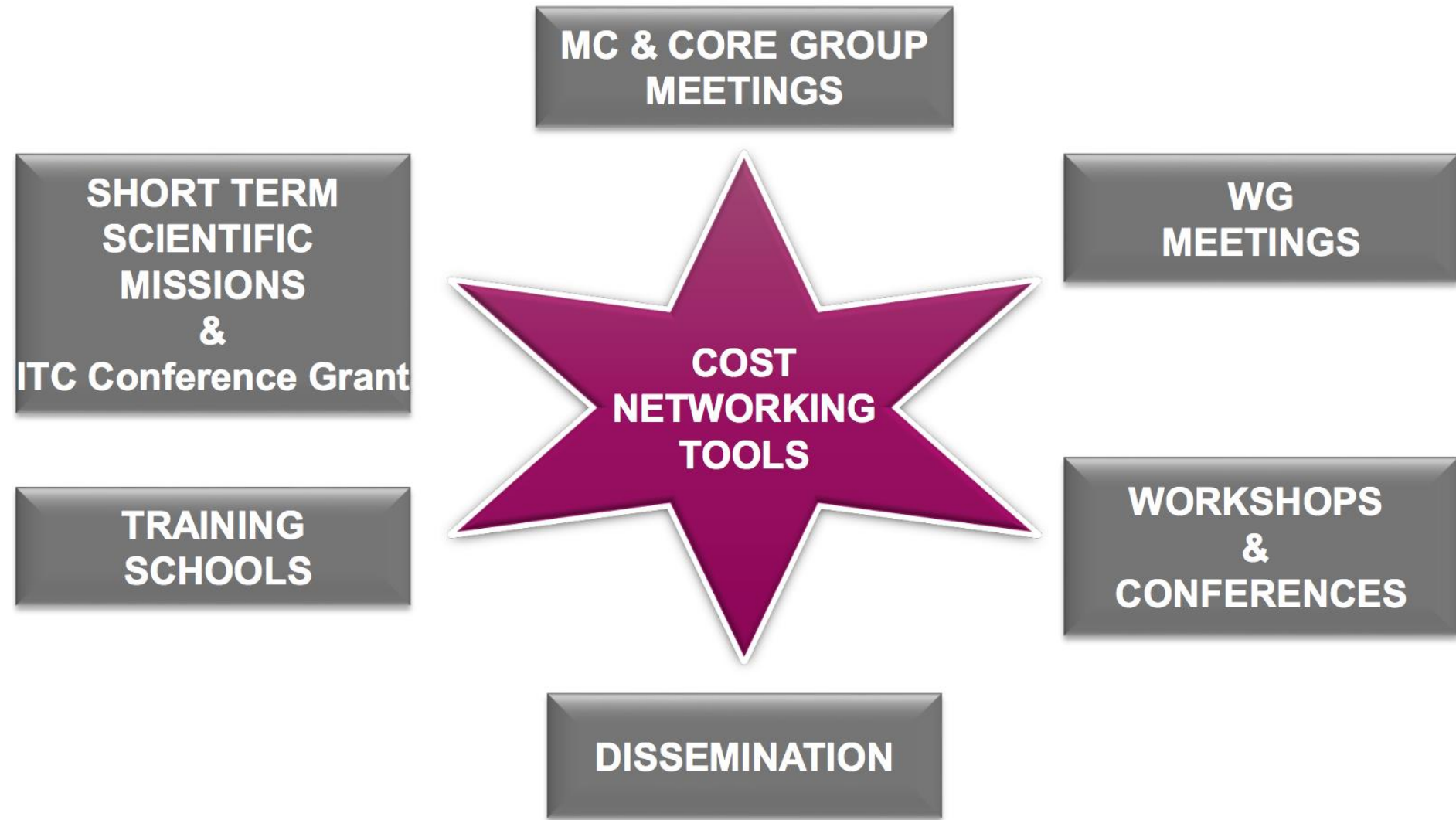
WG 1

WG 2

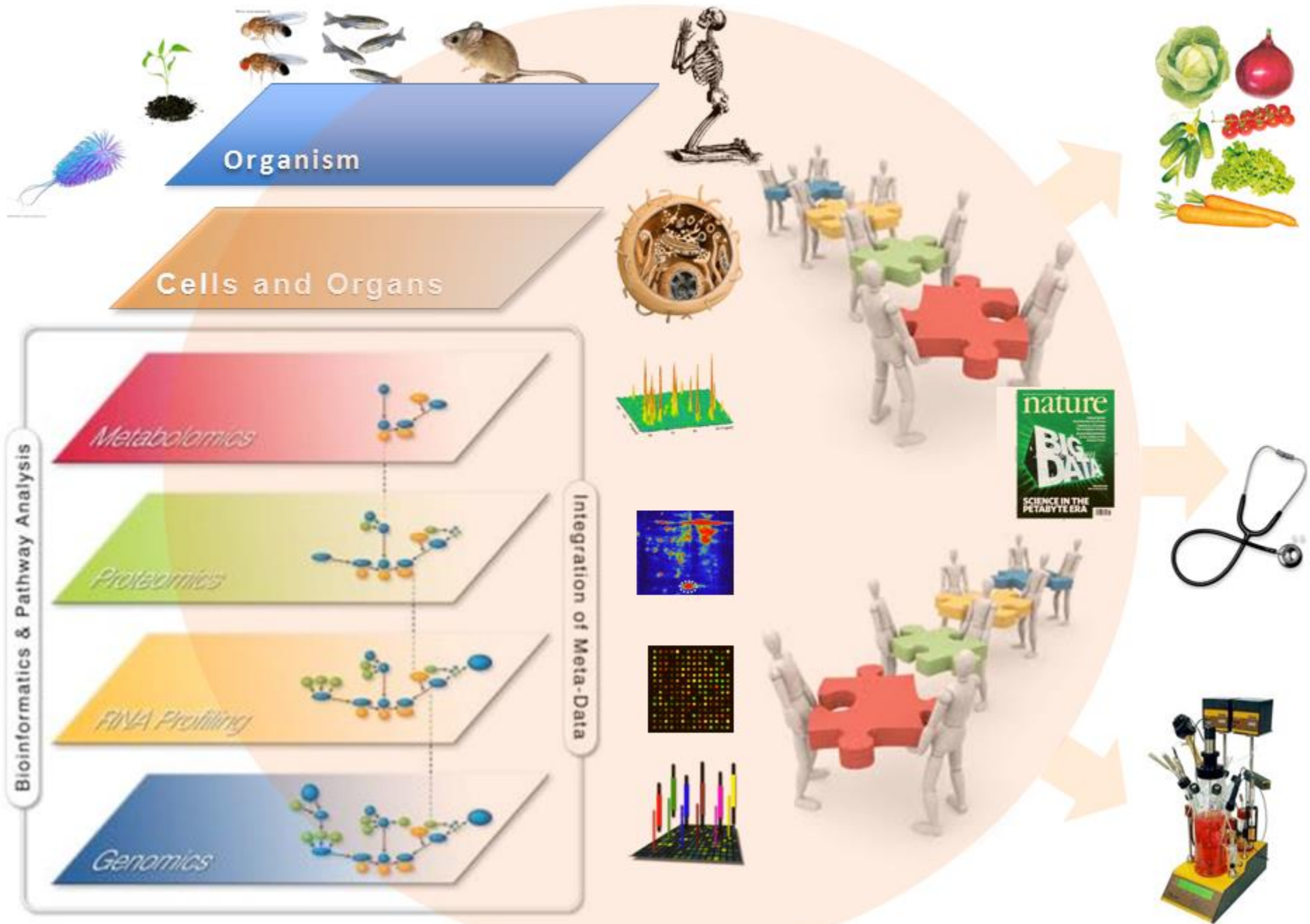
WG 3

WG X

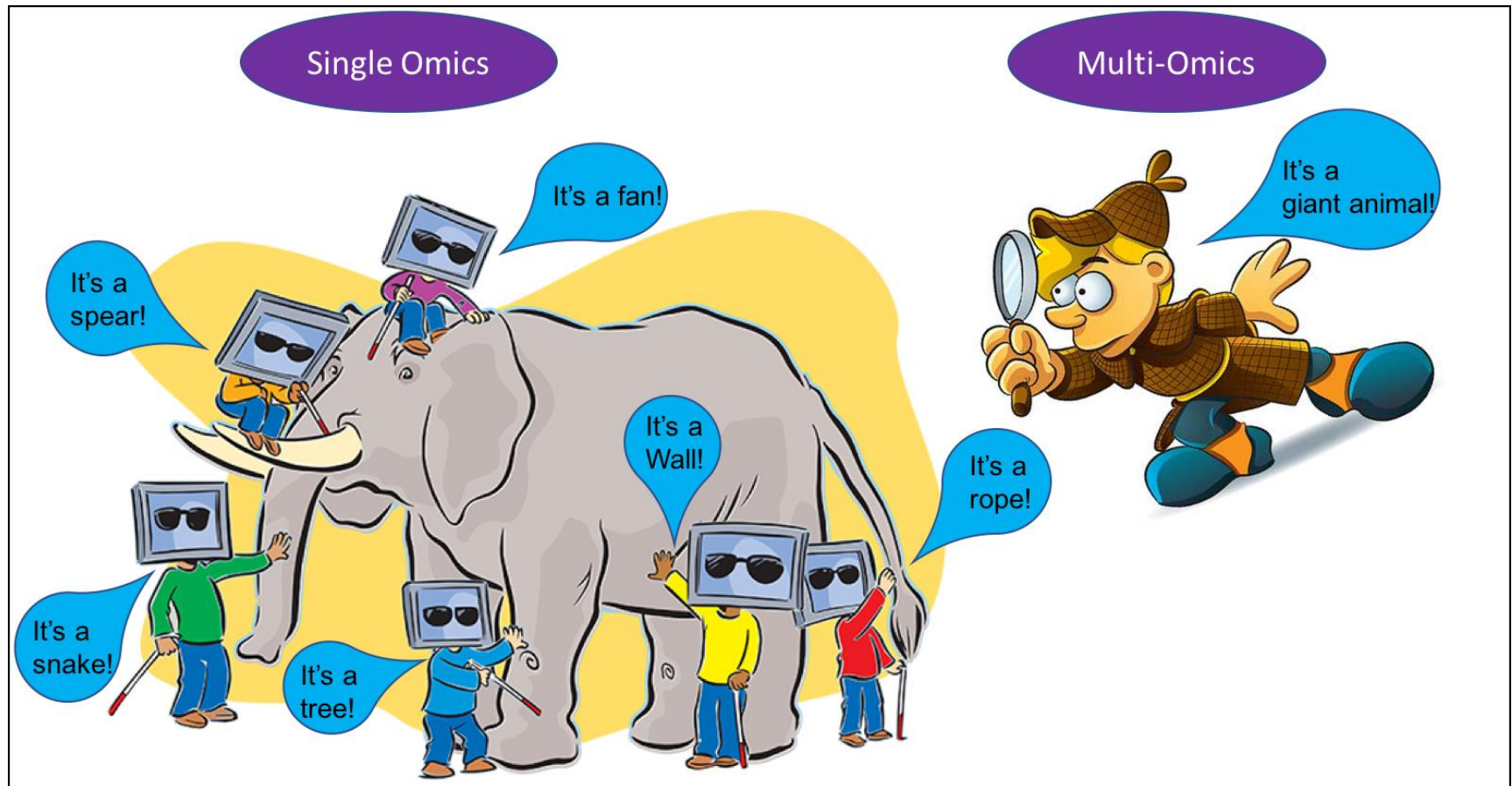
COST Networking Tools



Life Science data: Multi-omics, multi-technology, multi organism, multi dimensional



Different -omics sciences describe many levels of biomolecular organization – but if used in isolation may give misleading inferences about the system !



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 **Findable** in a secure and standardised format.

Challenge of the CA 17111

Establish an open, international, and representative network that integrates data from existing resources in a cost-effective manner, as well as making interoperable grapevine dataset and tools available in a secure and standardized format

Action Leadership Positions

Action Chair	Prof Mario PEZZOTTI ▼
Action Vice Chair	Dr Anne-Francoise ADAM-BLONDON ▼
Grant Holder Scientific Representative	Prof Mario PEZZOTTI ▼
Science Communication Manager	Prof Marina DERMASTIA ▼
STSM Coordinator	Dr Ana Margarida FORTES ▼

Country	MC Member
Albania	Dr Blerina VRENOZI ▼
Austria	Dr Günter BRADER ▼
Austria	Prof Astrid FORNECK ▼
Bosnia and Herzegovina	Dr Ivana KOLEŠKA ▼
Bosnia and Herzegovina	Mr Dino HASANAGIĆ ▼
Bulgaria	Prof Atanas ATANASSOV ▼
Bulgaria	Prof Ivan TSVETKOV ▼
Croatia	Prof Karin KOVACEVIC GANIC ▼
Croatia	Prof Mladen BRNCIC ▼
Cyprus	Prof George MANGANARIS ▼
Cyprus	Prof Vasileios FOTOPOULOS ▼
Czech Republic	Dr Jiří SOCHOR ▼
Czech Republic	Dr Klára KOSOVÁ
France	Dr Anne-Francoise ADAM-BLONDON ▼
France	Dr Camille RUSTENHOLZ ▼
Germany	Dr Daniela HOLTGRÄWE ▼
Germany	Prof Reinhard TOEPFER ▼
Greece	Dr Angelos KANELLIS ▼
Greece	Dr Panagiotis KALAITZIS ▼
Hungary	Dr Zóra Annamária NAGY ▼
Hungary	Prof I. Ászló KÖCSIS ▼

Israel	Dr Efraim LEWINSOHN ▼
Israel	Prof Aaron FAIT ▼
Italy	Prof Fulvio MATTIVI ▼
Italy	Prof Michele MORGANTE ▼
Moldova	Dr Gheorghe SAVIN ▼
Poland	Prof Stanislaw WEIDNER ▼
Portugal	Dr Ana Margarida FORTES ▼
Portugal	Prof Pedro FEVEREIRO ▼
Romania	Dr Carmen Florentina POPESCU ▼
Romania	Prof Doru PAMFIL ▼
Serbia	Dr Vuk MAKSIMOVIĆ ▼
Serbia	Prof Dragan NIKOLIC ▼
Slovenia	Dr Katja SUKLJE ▼
Slovenia	Prof Marina DERMASTIA ▼
Spain	Dr Gonzaga SANTESTEBAN ▼
Spain	Dr Jerome GRIMPLET ▼
Sweden	Prof Johan TRYGG ▼
Switzerland	Dr Manuel GIL ▼
Switzerland	Prof Markus RIENTH ▼
Turkey	Prof Çetin CÖMERT ▼
United Kingdom	Dr Julien LECOURT ▼
United Kingdom	Dr Paul KERSEY ▼

STSM, ITC Conference Grant, TS

SHORT TERM SCIENTIFIC MISSIONS

- Exchange visits fostering collaboration, contributing to the scientific objectives of the Actions and allowing participant to learn new techniques, to have access to data/instruments/methods not available in their own institution.

NEW

ITC Conference Grant

- PhD Student and ECI based in a participating ITC Countries to attend a conference and giving either an oral or poster presentation.

TRAINING SCHOOLS

- Provide intensive training on a subject that contributes to the aim of the Action (new or emerging subject)
- If applicable, offer familiarization with unique equipment or know-how in one of the laboratories of the Action

Working Group 1

Data interoperability and definition of minimal contextual data standards

This Working Group will focus on contributing to community-wide standards for metadata along with guidelines for their proper use.

WG1 Leader: Reinhard TOEPFER

WG1 Vice-Leader: Camille Rustenholz

[Find Out More](#)



Prof Reinhard TOEPFER

Julius Kühn-Institute
Institute for Grapevine
Breeding
Geilweilerhof
Germany
Siebeldingen

Working Group 3

Data analysis and best practices

Guidelines for best practice focusing on the promotion of standard protocols for omics data processing and analysis will be developed and recommended. These guidelines will help researchers to produce high-quality data and carry out informative analysis in the context of a standard framework, which will further contribute to data integration. Additionally, we will build a centralised framework for the standard annotation of grapevine genes. Such a framework will facilitate the integration of different omics data types by relying on standard formats and ontologies.

WG3 Leader: Johan TRYGG

WG3 Vice-Leader: Jerome Grimplet

[Find Out More](#)



Prof Johan TRYGG

Computational Life Science
Cluster (CLIC)
Department of Chemistry
Umeå University
Linneaus vag 10
Umeå
Sweden

Working Group 2

Interoperability of infrastructures and web services

In this Working group we will develop a bioinformatics infrastructure to facilitate the discovery, acquisition, storage, processing and integration of diverse grapevine datasets, and this will be managed by distinct nodes.

WG2 Leader: Paul KERSEY

WG2 Vice-Leader: Daniela Haltgrawe

[Find Out More](#)



Dr Paul KERSEY

Royal Botanic Gardens, Kew
Richmond
Surrey
United Kingdom
Richmond

Working Group 4

Dissemination and user community assessment of guidelines and recommendations

A focus of this Working Group will be training and dissemination of the work done by the other WG possibly in joint activities with dissemination and training activities of other large agnostic initiatives. We will disseminate the recommendations made by other working Groups and train the grapevine community to follow these recommendations.

WG4 Leader: Prof Dragan NIKOLIC

WG4 Vice-Leader: Panagiotis Kalaitzis

[Find Out More](#)



Prof Dragan NIKOLIĆ

University of Belgrade
Faculty of Agriculture
Nemanjina 6
Serbia

Pilot Projects

Genome data

C. Rustenholtz

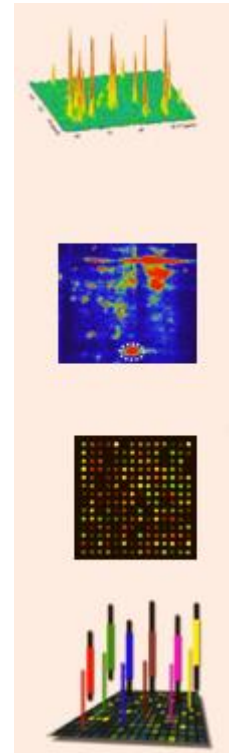


metadata for
genome submission
to ENA

Omics data

J. Grimplet

requirements for
Omics
submissions



Phenotyping data

E. Duchene



standardisation of
the organs
naming,
development
stages, Vitis
ontology

Working Groups

Composed of:

- MC Members, MC Substitutes, and MC Observers from NNC, IPC, Specific Organisations
- Any researcher from Participating COST Member Countries

Every MC Member is expected to join a Working Group and actively participate as Working Group Member.

WG Leaders should be MC Members.

Inclusiveness Target Countries (ITC)

Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Estonia, fYR Macedonia, Hungary, Latvia, Lithuania, Luxembourg, Malta, Montenegro, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Turkey

Action Grant Periods

For each Grant Period (GP) you will have a Work and Budget Plan and Grant Agreement.

Overview of the GPs for Actions in OC-2017-1

Start of the Action = 1st MC meeting date

- GP 1: 1 Oct to Dec 2018 – 30 April 2019
- GP 2: 1 May 2019 – 30 April 2020
- GP 3: 1 May 2020 – 30 April 2021
- GP 4: 1 May 2021 – 30 April 2022
- GP 5: 1 May 2022 – **End of the Action (4 years after MC1 date)**

PLEASE JOIN THE CA 17111