



Nano2Clinic

Cancer Nanomedicine - from the bench to the bedside

COST Action CA 17140

MC meeting on-line, 8/10/2020

Verification of the presence of two-thirds of the Participating COST Countries

- Albania
- Austria
- Belgium
- Bosnia and Herzegovina
- Bulgaria
- Croatia
- Cyprus
- Czech Republic
- Denmark
- Estonia
- Finland
- France
- Germany
- Greece
- Hungary
- Ireland
- Israel

- Italy
- Latvia
- Luxembourg
- The Netherlands
- North Macedonia
- Norway
- Poland
- Portugal
- Romania
- Serbia
- Slovakia
- Slovenia
- Spain
- Sweden
- Switzerland
- Turkey
- United Kingdom

34 countries

2/3=23 countries

(31 countries)

COST Near Neighbour Countries

MC Observer
Dr Natallia Shcharbina 💌
Dr Evgeny Apartsin 💙
Dr Maxim Abakumov 🕶
Dr Liudmyla Storozhuk 💌
Prof Neelov Igor 💙

COST International Partner Countries

Institution Name	MC Observer
Monash Institute of Pharmaceutical Sciences	Prof Nicolas Voelcker 💌
Université du Québec à Montréal	Prof ROY René
Université du Québec à Montréal	Dr Leila Mousavifar

Adoption of agenda

Approval of minutes of the last MC meeting in Riga (15/10/2019) – e-voting

Prof. Rana Sanyal will prepare minutes of this meeting

Update from the Science Officer

Dr. Lucia Forzi

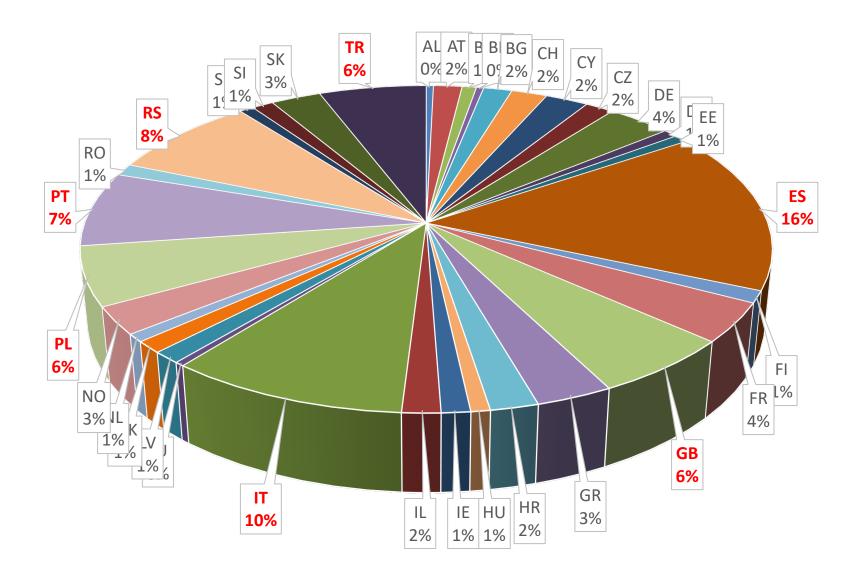
Update from the Action Chair

Status of the Action

- **End of Action** 27/09/2022

114 MC members and MC substitute members from **34** COST countries (37 secondary proposers from 21 COST countries and 3 from 2 NNC)

141 WG members



COST Near Neighbour Countries

Institution Name	Country
Clinics at the MAZ Company	Belarus
Institute of Chemical Biology and Fundamental Medicine	Russian Federation
Russian National Research Medical University	Russian Federation
Chuiko Institute of Surface Chemistry of the National	
Academy of Sciences of Ukraine	Ukraine
Institute of Bioengineering, ITMO University, St Petersburg	Russian Federation

COST International Partner Countries

Institution Name	Country
Monash Institute of Pharmaceutical Sciences	Australia
Université du Québec à Montréal	Canada
Université du Québec à Montréal	Canada

Update from the STSM Coordinator

Prof. Maria Francesca Ottaviani

Update from the Grand Holder Scientific Representative: Action budget status

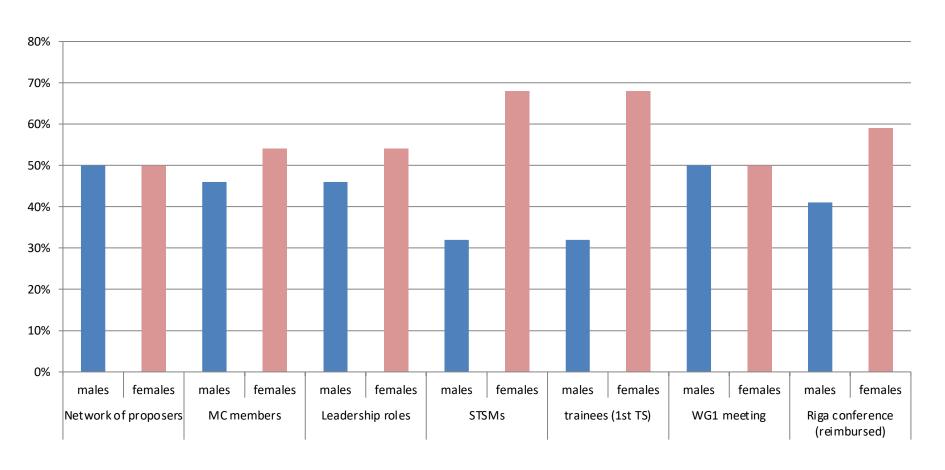
Ms. Joanna Korczynska University of Lodz



Implementation of COST policies

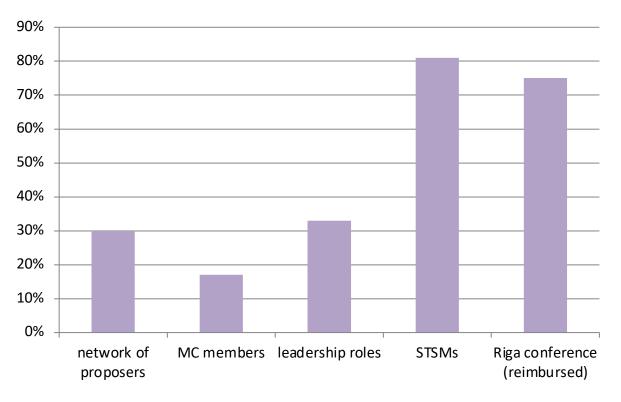
Promotion of gender balance





Promotion of Early Career Investigators





Vice-leaders:

WG1 - Tomáš Strašák (CZ)

WG2 - Evgeny Apartsin (RU)

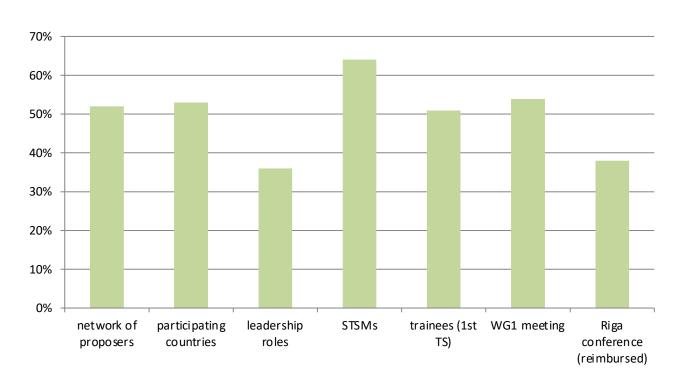
WG3 - Ulf Kahlert (DE)

WG4 - Enrico Catalano (IT)

Inclusiveness Target Countries

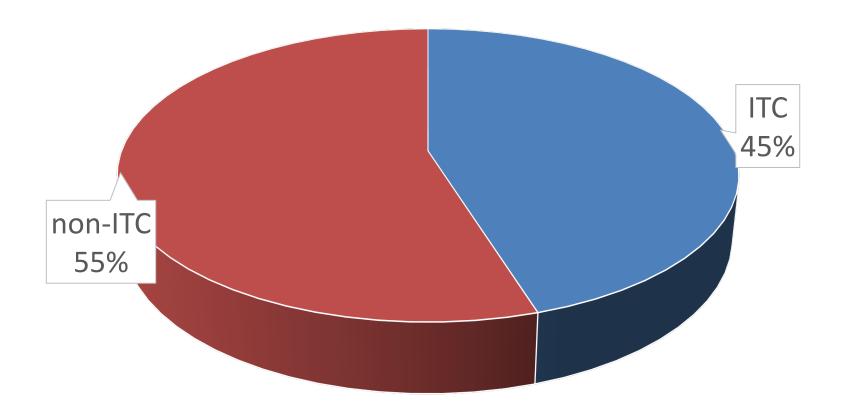
Albania, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Estonia, Hungary, Latvia, Lithuania, Luxembourg, Malta,

Montenegro, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Turkey, North Macedonia



Location of events:

- Portugal (WG1 meeting)
- Latvia (MC meeting+1st COST conference



Follow-up of MoU objectives: progress report of working groups

Memorandum of Understanding

Challenge

To develop nanosystems carrying anticancer drugs from their initial design, pre-clinical testing of efficacy, pharmacokinetics and toxicity to the preparation of protocols needed for the first phase of their clinical studies

Secondary objectives:

- Promoting and fostering active and multidisciplinary collaborations between industry and academia on each aspect of the design, development, and translation of cancer nanomedical agents
- Fostering synergies between complementary EU groups of excellence, thereby expanding the network beyond existing collaborations between Action partners, with particular attention to the strong, active involvement of SMEs, regulatory agencies, academic clinical research centers, clinical research organizations, and other public/industrial entities
- Promoting cross-pollination of competencies and transferring results within the EU
 actors belonging to public and privates sectors by extensive exchange of PhD students,
 young researchers and senior scientists, meetings and workshops, and collaborative
 scientific publications and patents.
- **Disseminating results to all potential stakeholders**, including public organisms, funding agencies, patients associations and the general public to increase EU citizen awareness of the social benefits of the Action results.
- Creating strong partnership between academia and industry by the equal participation of these two groups.
- Training and mentoring of young generations of researchers working in academia and industry to pave their way towards autonomous research leadership
- Ensuring equal opportunities by providing equal access to COST activities, respecting balanced gender distribution.
- Involving participants from less research active countries according to the inclusiveness policy of COST.

Working Groups:

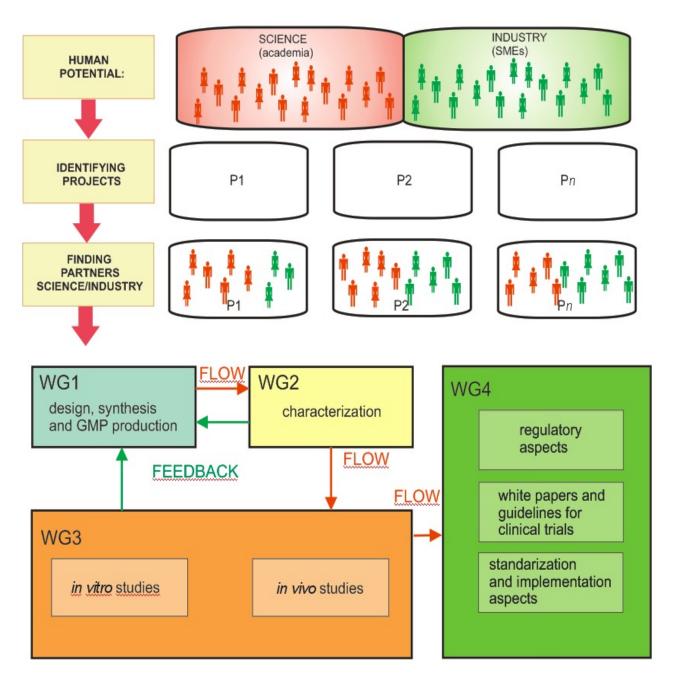
WG 1 – manufacturing nanodrugs

WG 2 – physico-chemical characterization of nanodrugs

WG 3 – preclinical studies of nanodrugs

WG 4 – guidelines for clinical trials and regulatory aspects of nanomecines

The main idea:



1st year deliverables

https://www.nano2clinic.eu/wg1-deliverables



Protocols and recipes for **computer-assisted design/optimization** of new/existing chemical entities and/or nanomaterials.





Chemical protocols, pathways and mechanisms for the synthesis of new chemical entities and/or nanomaterials.

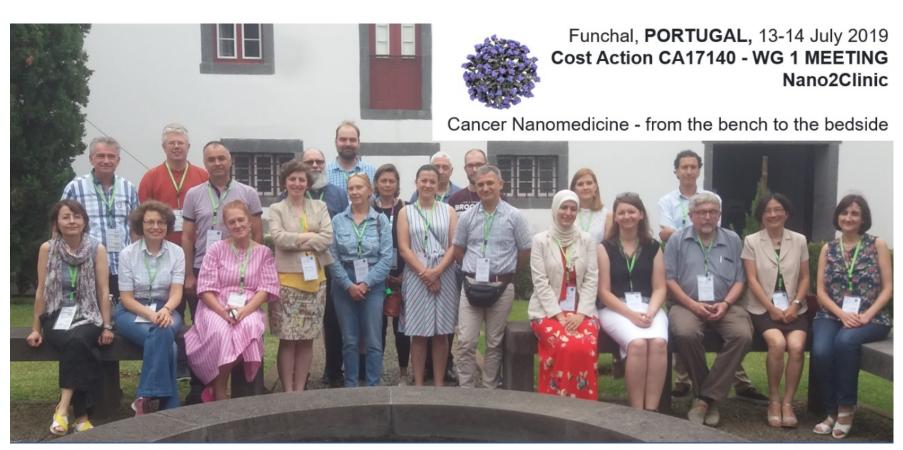
Roadmap and consensus **protocols for cost reduction**, **yield optimization and reproducibility** of the chemical entities and/or relevant nanomedicines





Roadmap and consensus protocols for GMP production of chemical entities and nanomedicines.

WG1 meeting









Acknowledgements

- Prof. Rana Sanyal (WG 1 Leader)
- Prof. Sabrina Pricl
- Prof. Kostas Karatasos
- Prof. Nazende Günday-Türeli

2nd year deliverables



Consensus protocols for full physico-chemical characterization of new/existing chemical entities and/or nanomaterials.



deadline: 26th of Oct.



deadline: 26th of Oct.

Roadmap and consensus protocols for controlling of selected new/existing chemical entities and/or nanomaterials.

Update from the WG2 Leader

Prof. Ivana Vinković Vrček



Scientific planning

3rd year deliverables



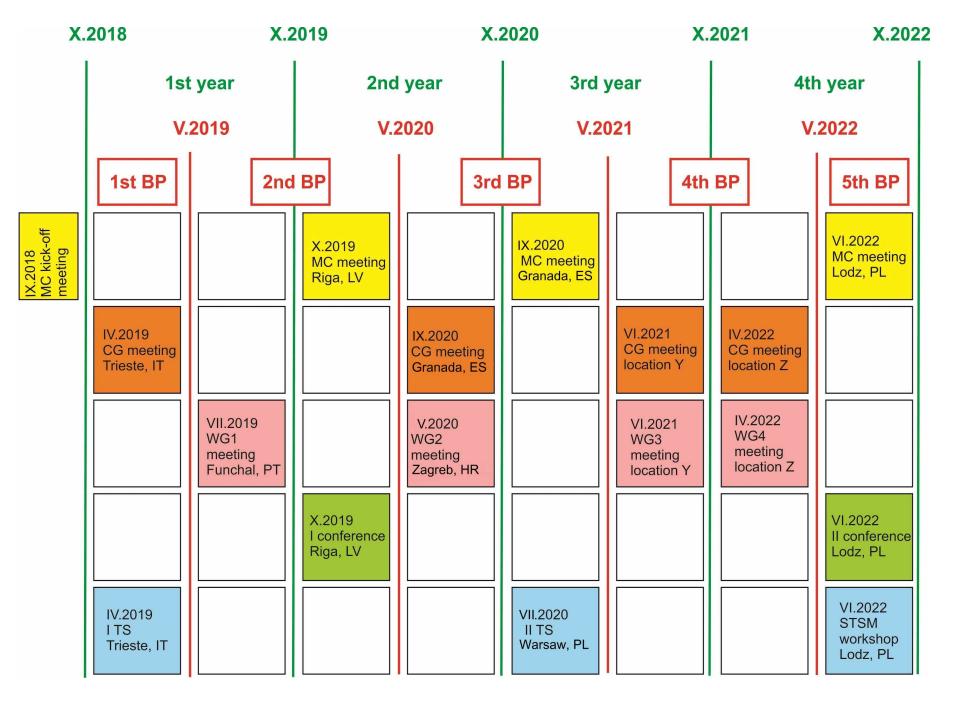
Consensus protocols for in vitro testing of new/existing chemicals entitles and/or nanomaterials

Consensus protocols for in vivo testing of new/existing chemical entitles and/or nanomaterials

Update from the WG3 Leader

Prof. Carlo Catapano

Action Budget Planning and Long-term Planning



Original plans:

11-12 May - WG2 meeting, Zagreb, Croatia, Organizer: Ivana Vinković Vrček

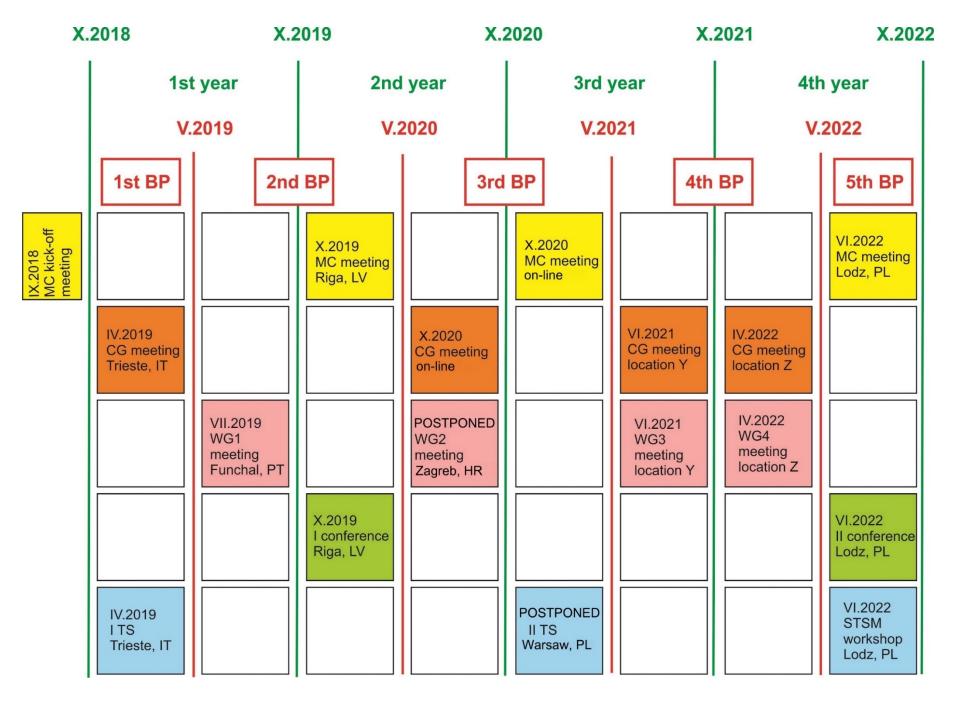
14-17 July - 2nd Training School, Warsaw, Poland, Organizer: Ewa Sawosz-Chwalibóg

10 September - CG meeting, Granada, Spain, Organizer: Rosario Maria Sanchez Martin

11 September - MC meeting, Granada, Spain, Organizer: Rosario Maria Sanchez Martin



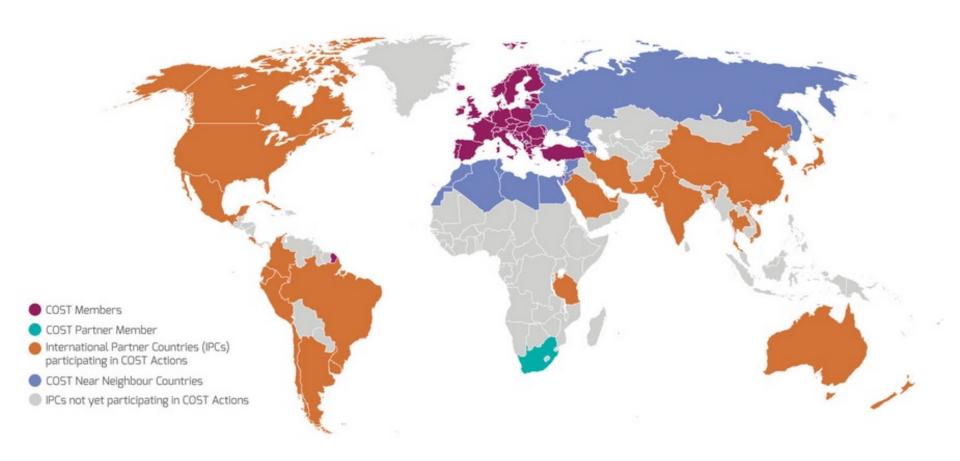
- 1. 50960 EUR from organizing meetings to funding STSMs,
- 37485 EUR from organizing the Training School to funding ITC conference grants.



Action budget planning (4th BP)

- Organizing on-line events (Training School, WG meetings, CG meetings) Local Organizing Support (LOS)
- ITC conference grants for ECIs (conference fees for attending on-line events)
 ITC countries:Albania, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus,
 Czech Republic, Estonia, Hungary, Latvia, Luxembourg, Poland, Portugal, Romania,
 Serbia, Slovakia, Slovenia, Turkey, North Macedonia
- STSMs
- OA publication charges (co-authored by Action Participants representing at least 3 different Participating COST Full Members / COST Cooperating Members)

Action budget planning (4th BP)



Dissemination planning

Science Communication Manager

Prof. Sabrina Pricl

Dissemination reminder

- ONLY those publications featuring authors belonging to AT LEAST 2
 different CA17140 countries can be considered as COST-related
 publications
- Do not forget that each CA17140 publication must report the following official sentence in the acknowledgment section:

This article/publication is based upon work from COST Action CA 17140 "Cancer Nanomedicine from the Bench to the Bedside" supported by COST (European Cooperation in Science and Technology)

 This sentence is available on the homepage of our website https://www.nano2clinic.eu/

discussion

AOB

summary of MC decisions (Prof. Rana Sanyal)