

Introduction:

"Molecular Pathology Standardization"

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The OECI Biobanking and Molecular Pathobiology WG to obtain more reproducible and exchangeable diagnosis and clinical **Organisation of European Cancer Institutes** EUROPEAN ECONOMIC INTEREST GROUPIN research is collaborating with several European Organizations: **BIOBANKING AND MOLECULAR** PATHOBIOLOGY WG

With Cancer Organizations:

Courses

European Association for Cancer Research Patients



European Cancer Patient Coalition Molec. Pathol.



With other Organizations:



Working Groups

Standardization Master Clinical Tiss. Anal. IMPACTS



U.E. M.S. Union Eropeenne des Medicines

Specialistes

















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#The master was chosen as a modality **to standardize diagnostic molecular pathology in Europe.** This is not possible in the specialization schools because of different programs in different countries and a low level of plasticity.

The steering committee of the master (people in charge of molecular pathology initiatives in different countries) can modify the program continuously allowing the **diagnostic molecular** pathology to be always updated and standardized.

#The program is **based on the already developed experience** of the French diploma and the evaluation of it based on other existing courses and diplomas in Europe such the ones in Netherlands and Germany.

#As today **diagnostic molecular pathology is directly connected to diagnostics and treatment, the standardization of the analyses is a basic requirement** to make them reproducible and exchangeable among European health institutions.

#The standardization is based on the European specific projects.





European Molecular Pathology Master

<u>Rationale</u>: This Master course is established in response to the extremely urgent need at the European level to perform **reproducible and exchangeable molecular diagnostic analysis**. Today when exchanging a clinical record from one hospital to another we are never sure about the same meaning of the molecular diagnostic results.

This is even more pressing because of the continuously increased use of **diagnostic, prognostic and predictive biomarkers, directly related to treatment choices.**

Other types of more sophisticated techniques are now used at the molecular level with a continuous rapid development.

Interpretation of results of diagnostics and clinical research molecular analysis are increasingly complex.

The master will be open to pathologists.

Recent decisions taken inside the European Commission Committees (ECIBC) pointed out the **importance of clinical research performed directly on today patients** for today patients and the collection of big data.

This means the necessity of the development of excellent centers for cancer and the preparation of new professionals.

<u>Objectives:</u> -EMPM will guarantee **practical training** in the field of molecular pathology diagnostics and clinical research especially in the fields of oncology but also in infectious diseases with a common European language. In the future other issues can be developed.

-Theoretical and technical aspects will be covered.

-Diagnostic interpretation will be included for all the main diagnostic areas of pathology.

-Quality assurance will be one of the main issues to guarantee reproducibility and exchangeability of the results.

-Bioethical aspects will be considered with evaluation of the different rules in Europe.

-Bioinformatics and AI aspects will be considered.





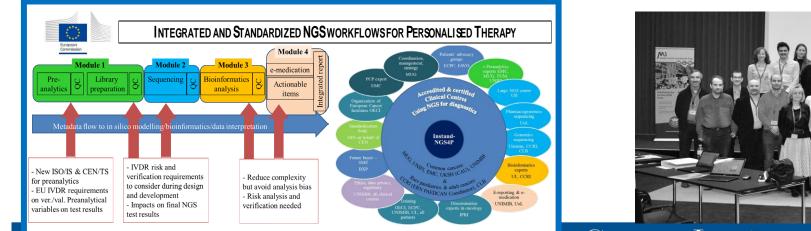


HERCULES : HETEROGENEITY "Comprehensive cha<u>r</u>acterization and effe<u>c</u>tive combinatorial targeting of high-grade serous ovarian cancer via single-cell analysis".



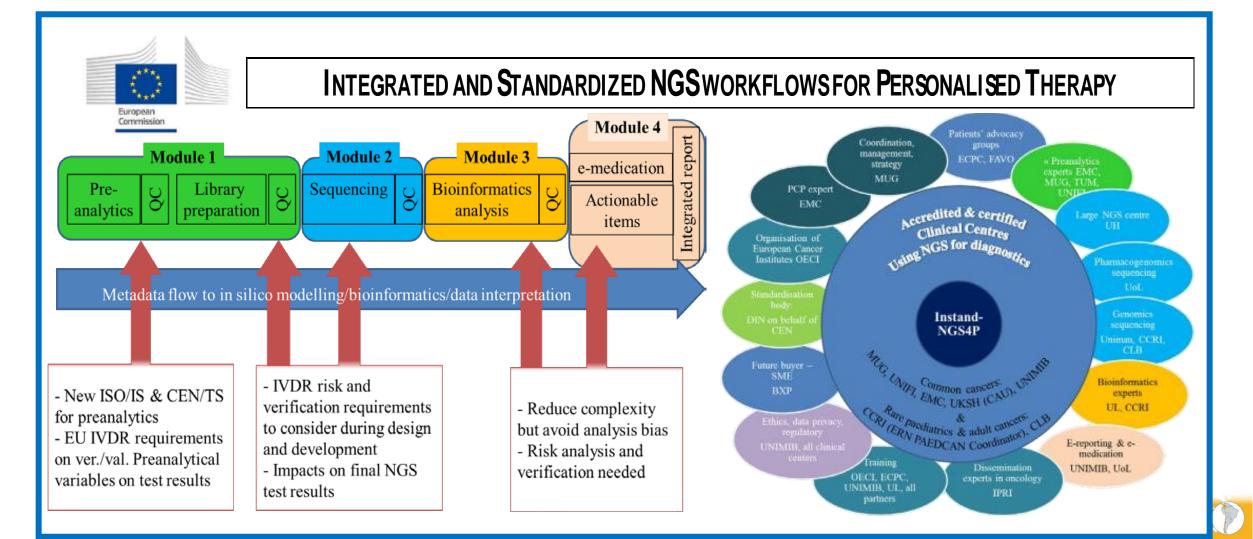












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Co-funded by the European Union

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To develop the activities of validation, communication and dissemination within WP5. OECI has a great expertise in communication and dissemination tools:

#OECI website www.oeci.eu

- #OECI Magazine bi-annual Published by OECI
- #OECI Yearbook published each year and containing special announcement related to the main activities/project #Specific publication of ecancer, the OECI Official Journal - open-access journal (in English and Spanish)
- #Specific Sessions or round tables at the Annual OECI Event: OECI Oncology Days
- #Communications sent to the European Cancer Orgnaisation www.ecco-org.eu
- #Specific pages published on Cancerworld www.cancerworld.net
- #OECI affiliated Review"TumoriJournal", https://journals.sagepub.com/home/tmj

#Concerning the validation process, OECI has already discussed a process of rapid validation of biomarkers, targets and methods through the collaboration of OECI Certified Comprehensive Cancer Centres and Clinical Cancer Centres. #Possibility to introduce the project results in the OECI accreditation process





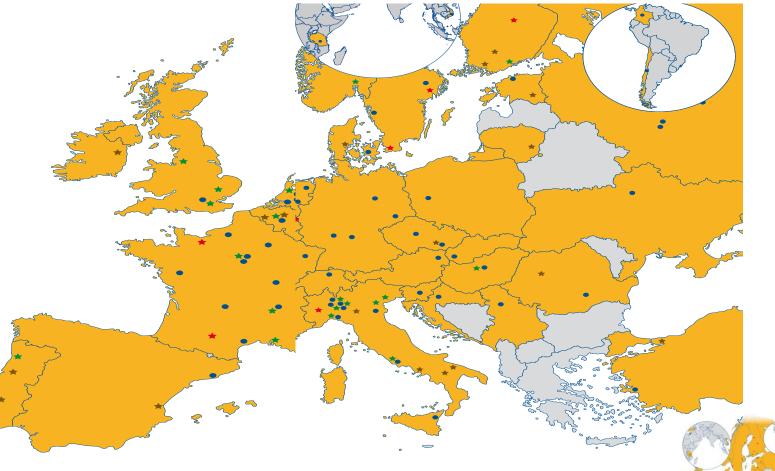
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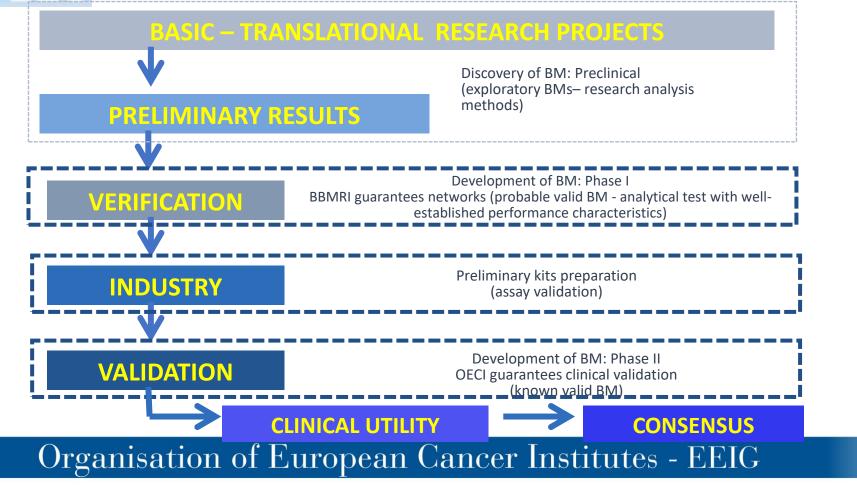
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HERCULES (EU project 667403) on "Comprehensive characterization
and effective combinatorial targeting of high-grade serous ovarian
cancer via single-cell analysis".







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