



M E D I C N E S T

Deliverable 3.2 – MEDIC-NEST Toolkit and services deployment

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ABSTRACT

This deliverable represents an open digital toolkit to promote collaboration to raise awareness of the European Precision Medicine Community.

STATEMENT OF ORIGINALITY

This deliverable contains original unpublished work except where clearly indicated otherwise. Acknowledgement of previously published material and of the work of others has been made through appropriate citation, quotation or both.

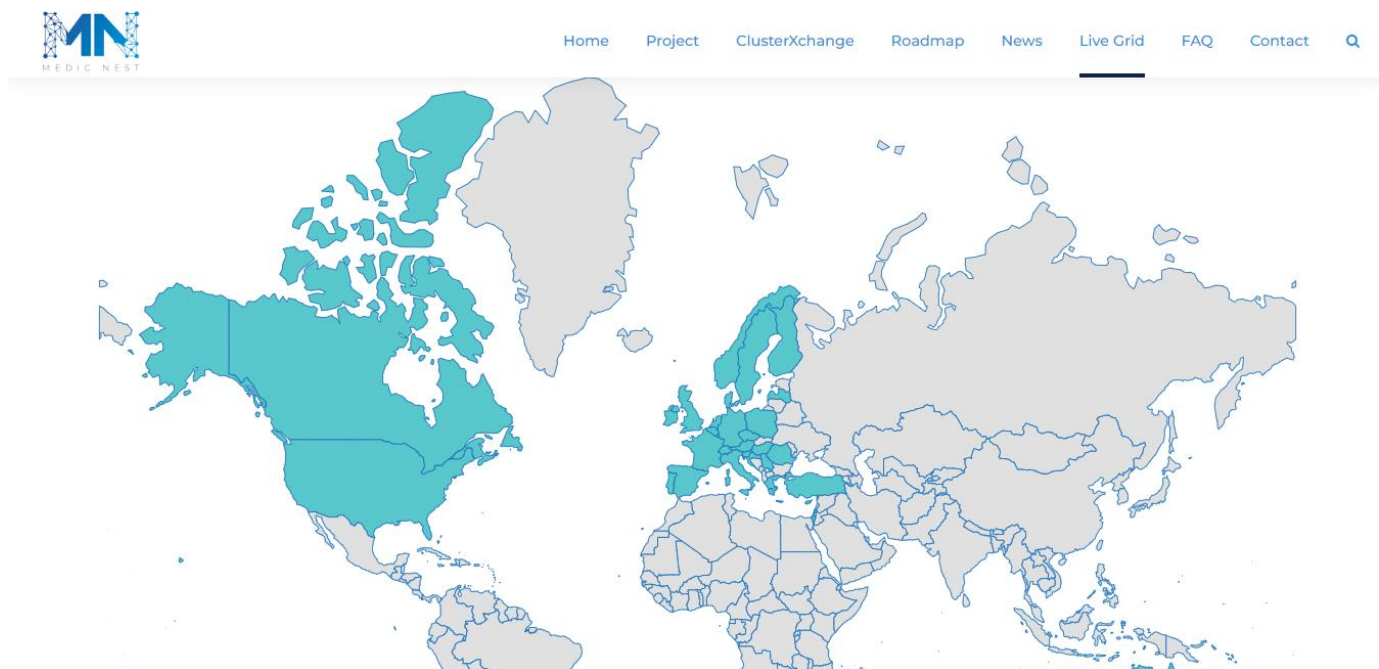
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The MEDIC NEST GRID integrates 3 open digital tools, which constitute 3 new services for our SME members and the society:

- a) An open digital catalogue of active projects in the field of precision medicine related to Early Diagnosis and Smart Health Services
- b) An open digital catalogue of services, technologies and European entities linked to the development and implementation of precision medicine products or services related to Early Diagnosis and Smart Health Services
- c) scientific news portal aimed at promoting the projects developed in the work areas of the meta-cluster

The grid is incorporated in the project website: <https://medicnest.eu/>



This grid is called *live grid*, and it is interactive and freely accessible to anyone.

By moving the mouse over this world map, we can find both: the catalogue of active projects in the field of precision medicine related to Early Diagnosis and Smart Health Services as well as the catalogue of services, technologies and European entities linked to it.

a) An open digital catalogue of active projects in the field of precision medicine related to Early Diagnosis and Smart Health Services

It is a useful tool that allows us to find European projects related to precision medicine, Early Diagnosis and Smart Services. Due to the large number of projects and the specificity of the topic, they have been subcategorized and several search filters have been incorporated. It is a tool that is still being edited.

This also allows the promotion of projects and the knowledge to the society of what is being researched.

The projects have been classified into six types according to type: preclinic, clinic, guidelines, immunotherapy, theragnostic and medical device. *Figure 1*

In addition, we can also find a classification according to the topic that they cover: tools, biomarkers identification, procedures, AI/Big Data, strategies, training and research centre. *Figure 2*

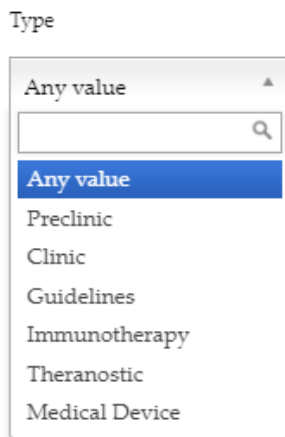


Figure 1

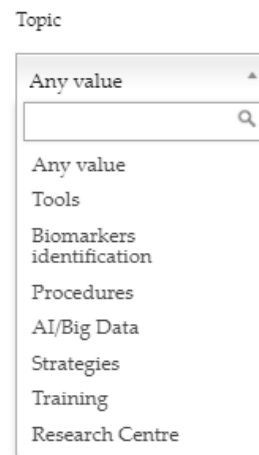


Figure 2

The diseases that are mostly under investigation in the period 2022-2027 and that have been found to have the most projects are:

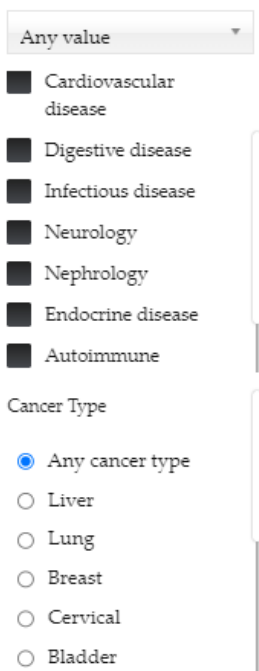


Figure 3

Cancer (Liver, Lung, Breast, Cervical, Bladder, Pancreatic, Colorectal, Ovarian, Prostate, Leukemia, Skin, Myeloma, Vaccines), Cardiovascular disease, Digestive disease, Infectious disease, Neurology, Nephrology, Endocrine disease, Autoimmune disease and other. *Figure 3.*

Moreover, all these projects can be classified by the country or countries involved, or by key words of interest. *Figure 4.*

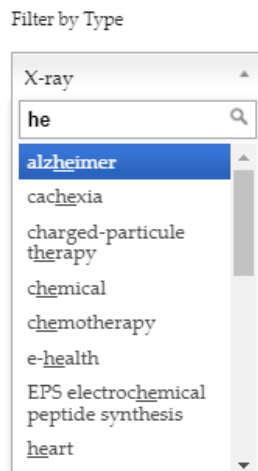


Figure 4

Once we click on the studies we are interested in, we will access to a brief description of the study and a link to the place where we can find more information about it. We can see an example below.

Targeted strategies for prevention and treatment of fibrosis-associated liver cancer

July 19, 2022 /

Dates: 01/07/2022

30/06/2027

Topic: Biomarkers identification

Project type: Preclinic

Project target: Liver cancer

Other

Financing:

H2020-EU.1.1. – EXCELLENT SCIENCE – European Research Council (ERC)

Participating agents:

INSTITUT NATIONAL DE LA SANTE ET DE LA RECHERCHE MEDICALE

THE UNIVERSITY OF TEXAS SYSTEM

Keywords: liver cancer; oncology; tumour; cihrosis; biomarker; hepatology; HCC; claudin-1;

Countries: France; USA

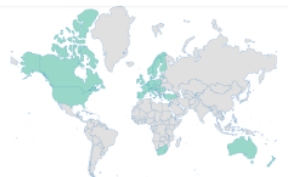
Project page: [Access page](#)

Search for information

Looking for...



Live Grid



b) An open digital catalogue of services, technologies and European entities linked to the development and implementation of precision medicine products or services related to Early Diagnosis and Smart Health Services

This catalogue is also incorporated into the *live grid*, allowing us to scroll through the countries and find out which European entities work for the development, research, incorporation or offer of services related to precision medicine, Early Diagnosis and Smart Health Services.

With the help of this digital tool, different public is informed in a compact form about many entities of their interest. The aim is to address interdisciplinary actors in the field of precision medicine and to stimulate cooperation between countries.

The information we find today is immense on the internet, and quite difficult to categorise or decipher sometimes, so we hope to facilitate the search for entities by classifying them in:

- Clusters
- Research centres
- Biobanks
- Societies
- Governments
- Platforms
- Foundations
- Infrastructures
- Companies

Once you have found the entity of interest, you can see a short summary of the work they do, as well as a link to the official website.

The two photographs would show what information has been collected in the *live grid*.

8	Navarrabiomed: the biomedical research center of the Government of Navarre	Research	https://www.navarrabiomed.es/en	Spain	<p>Navarrabiomed research center, which implements, promotes and performs leading edge biomedical research to develop and implement innovative therapies that improve the quality of public healthcare.</p> <p>The center is currently organized in 19 research units and six technical and scientific services to promote scientific research and technological development: Biobank, Clinical Trials, Methodology - Health Services Research, Proteomics, Animal Lab and Experimental Operating Theater, and the CellMa Clean Room for Advanced Therapies.</p>
9	National Genotyping Center	Platform	http://www.usc.es/cegen/	Spain	<p>Technological platform which main objective is to carry out genotyping projects for SNPs (Single Nucleotide Polymorphisms), CNVs (Copy Number Variations) and InDels (Insertions and Deletions) and DNA methylation analysis, on a large scale and at low cost, both in humans and in any other animal or plant species.</p> <p>Its consider 2 aspects: training and research.</p>
10	UB Chair on Innovation in Precision Oncology	Research	https://catedra-iop.com/es	Spain	<p>Create academic programmes, seminars and congresses specific to precision oncology and encourage debate on aspects related to health policy, legislation and the regulatory, ethical and economic aspects of precision measurement in oncology.</p> <p>To develop an international network of teaching centres of excellence in precision oncology; to promote the exchange of knowledge between centres and professionals and create a grant in translational research.</p>
11	Center for human molecular genetics and pharmacogenomics - Faculty of Medicine - Maribor	Research	https://www.mf.um.si/mf/instituti/chmgf	Slovenia	<p>Center for human genetics and pharmacogenomics. The major goal of the center is to achieve scientific excellence in human genome research and to foster the translation of new technologies and discoveries in the field of human genome research into clinical practice. The focus on identification of genetic risk factors for common complex diseases such as inflammatory bowel diseases (Crohn's disease and ulcerative colitis), rheumatoid arthritis, asthma and other immune-mediated diseases as well as various types of cancer. The focus of pharmacogenomic studies is identification of correlation between genomic data and treatment outcome in order to develop genetic biomarker prediction models for more efficient</p>
12	Slovenian Genome Project	Biobank	http://genom.si/en/index.html	Slovenia	<p>Slovenian Genome Project will accelerate the understanding of epidemics of genetic diseases in Slovenia. It will standardise the transfer and gathering of data between Slovenian institutions (FAIR principles) and expedite the collaboration with European genome initiatives, including the "1+ million genomes" initiative.</p>

This is an example of a research institution of Slovakia added in the *live grid*.

Biomedical Research Center of the Slovak Academy of Sciences

January 27, 2023 /

Type: Research

Project page: Access page

Country: Slovakia

Synopsis:

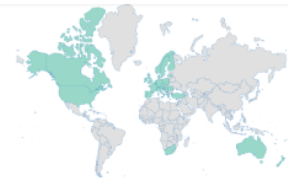
The principal mission of this novel research center is to foster research excellence, develop interdisciplinary approaches, and stimulate innovative potential for the improvement of our knowledge on human diseases, its better translation to clinic and more effective practical use for benefit of patients and the entire society. BMC SAS research is focused on understanding metabolic, neuroendocrine, autoimmune and cardiovascular disorders, cancer and infections, and their interrelationships when cooccurring in the same organisms.

Search for information

Looking for...



Live Grid



c) Scientific news portal aimed at promoting the projects developed in the work areas of the meta-cluster

This is a news portal to share the projects and events in which MEDIC-NEST members participate.

In addition, you can also find news related to precision medicine, artificial intelligence, Early Diagnosis, workshops, projects or any relevant news for the society.

