

INNOVATION IN THE HEALTH SYSTEM

THROUGH DATA SHARING



Wednesday, October 12, 2022

(b) from 14:30 to 16:00

dard co-finanziato dal Fondo europeo di sviluppo regional









New Challenges for Europe's Cohesion

CROSS-BORDER PILOT PROJECTS TO BOOST INNOVATION IN THE HEALTH SYSTEM THROUGH

ZOOM SESSION RULES:

- Keep your microphone muted
- If you have questions for the speakers, leave

them in the chat.

They will be answered during the Q&A session















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Ms. LAURA COMELLI Managing Authority Interreg Italy-Slovenia Programme

MODERATOR















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Ms. BARBARA ZILLI Autonomous Region Friuli Venezia Giulia Regional Minister for Finance and EU Affairs

















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Ms. LAURA COMELLI Managing Authority Interreg Italy-Slovenia Programme

MODERATOR















2003 - 2022



Department of Intelligent Systems – **JSI**

prof. dr. Matjaž Gams, Primož Kocuvan

#EURegionsWeek



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Italia-Slovenija







ISE-EMH





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AGENDA:

- Welcome
- Competitions as a quality indicator
- Slovenian health system
- How to upgrade Slovenian health system
- Insieme platform (ISE-EMH) as a solution •
- Questions for the audience











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ISE-EMH, Italian-Slovene ecosystem for electronic and mobile health

Duration: 28 months Start date: March 1, 2020 End date: June 30, 2022 Budget: 882.351,00 € Budget FERS: 749.998,34 €

6 partners:

Lead Partner: Arctur Računalniški inženiring d.o.o. Project partner 1: Istituto di Ricovero e Cura a Carattere Scientifico materno infantile Burlo Garofolo di Trieste Project partner 2: Institut "Jožef Stefan" Project partner 3: Polo Tecnologico Alto Adriatico Project partner 4: Università Ca' Foscari Venezia Project partner 5: Robotina, Podjetje za inženiring, marketing, trgovino in proizvodnjo d.o.o.













Objectives:

- To develop an ICT system in the field of EMH in order to provide innovative services, applications, and products.
- To establish public-private partnership (SI-IT) and transfer of cross-border knowledge.

Main results:

- A platform developed to connect products and services the backbone of the ecosystem.
- Integration and connection of existing products services and systems through the platform into a complete ecosystem.

https://ise-emh.eu







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Publications in top scientific journals in 2020

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• Regarding journal impact factor

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• 1000 staff: physics, chemistry, electronics

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Total JSI articles: **1207**

61%

of all JSI articles were published in top 25% scientific journals.

34%

of all JSI articles were published in top 10% scientific journals.

18%

of all JSI articles were published in top 5% scientific journals.

2%

of all JSI articles were published in top 1% scientific journals.





ITALIA-SLOVENIJA

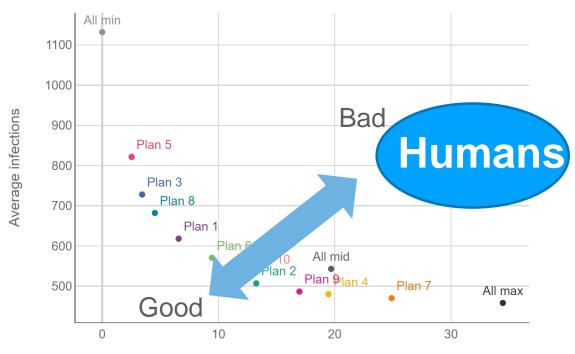








Humans : AI + computers; COVID, XPRIZE, AI 20% better than humans; 250.000 prize, 5/10



Average stringency











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Current situation in Slovenia:

- In Slovenia in 2019 there were 6.812 physicians (i.e. doctors), 1.514 dental physicians, 7.996 nurses and 13.468 technicians.
- In the last ten years only : physicians + 37 %, dental physicians + 20 %, nurses + 84 % and technicians 8 %.
- At the same time, the waiting times for operations increased significantly and the number of citizens without personal (family) doctor increased from practically 0 to 130.000 in 2022.
- Studies show that introduction of computers did not help much in terms of human-patient time (computers take time from doctors)
- In a recent presentation in the National Council doctors claimed that around 2 hours per day are need to deal with all reports.











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Current situation in Slovenia:

In a recent presentation in the National Council doctors claimed that around 2 hours per day are needed to deal with all reports.

Wrong use of computers!

Demographic issues:

- Fertility rate 2.1 /1.6 ?
- Extinction in long term, 200 years
- Decrease of quality in short term: too many old, too little young, too little doctors

Solution: EMH!













How to improve Slovenian health system

- 130.000 patients without a personal doctor
- Establish a center that provides functions of personal doctors to the patients through electronic means.
- All doctors (Uber style) are connected and can provide help to any of the 130.000 patients.
- Estimated time: a couple of months.













How to improve Slovenian health system

- Introduce one national data and service medical warehouse and edge computing.
- All medical data and services should be compatible instead of over 30 incompatible system 5 years ago.
- Edge computing, data warehouse.

Introduce AI and computers as assistants:

A patient describes personal problems/symptoms in advance. When the meeting with the doctor starts, the doctor has already on the screen all the necessary data with the proposed list of diagnoses, medications and advices. If all is OK, the doctor just confirms it.













Insieme platform as a solution: https://ise-emh.eu

	HELP MORE Q SLO-ENG SLO ITA ITA-ENG LOGIN
List of services Ageing Applications Dermatology	Welcome to Insieme, the Electronic and Mobile Health platform! The Insieme platform was developed within the cross-border project ISE-EMH and connects Italian and Slovenian partners. On this platform you can get online information and human support in the field of electronic and mobile health.
Oncology Hormonal disorders Mental illness and cognitive impairment	Enter search term SEARCH
Related platforms Respiratory diseases Digestive tract and metabolism	Online human help Use live chat to contact medical professionals, ask questions, and get
Infections, coronavirus Neurological diseases Urology	Call centers Active users











List of services Ageing Applications Dermatology Oncology Hormonal disorders Mental illness and cognitive impairment **Related platforms Respiratory diseases Digestive tract and** metabolism Infections, coronavirus **Neurological diseases**

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Example of a service: Rosacea

Rosacea

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Components of the Insieme platform:

Rosacea is a common chronic inflammatory disease that presents with recurrent flushing, erythema, telangiectasia, papules or pustules on nose, chin, cheeks, and forehead. Both a prompt diagnosis and appropriate therapeutic interventions are required to prevent permanent scarring, persistent erythema, and ocular sequelae. The incidence of rosacea is estimated to be greater than 5% in the general population, shows a female predominance and generally occurs in adults between 30 and 50 years of age. Heat, solar radiations, stress and alcohol consumption are considered as potent triggers for the onset of the clinical signs of rosacea and should therefore be strongly avoided. Both the usage of sun protection factors and of moisturizing skin care products are highly recommended.

Professional help:

- Azienda sanitaria universitaria Giuliano Isontina: SC (UCO) Clinica di Chirurgia Plastica. Trieste, Ospedale di Cattinara, Strada di Fiume 447, Torre Chirurgica, 9º piano. T: 040 3994258. email elena.vattovani@asugi.sanita.fvg.it
- Istituto Dermatologico Europeo Milano. T: 02.5492511. email: info@ide.it
- Skin Doctors' Center
- Applications:
- Diary for disease monitoring
- Associations:
- National Rosacea Society
- Scientific articles:
- Rosacea: a review (Pharmacy and Therapeutics).
- Rosacea Treatment: Review and Update (Dermatology and Therapy).
- Patient's story:
 - 11 People Describe What It's Really Like to Have Rosacea | SELF
 - What it's really like to live with rosacea
 - 8 Women Reveal What It's Like To Live With Rosacea | Prevention
 - success story | Rosacea.org
- Video
- Living with rosacea Lex Gillies
- By Gabriella // Living With Rosacea No Makeup & Sensitive Skin Chat
- Experience My Rosacea
- LIVING WITH ROSACEA! + HOW I COPE
- Eudelo Rosacea Testimonial
- Additional information:





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dall'Unione europea Sofinancira Evropska unija

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Components of the Insieme platform:

Cofinanziato

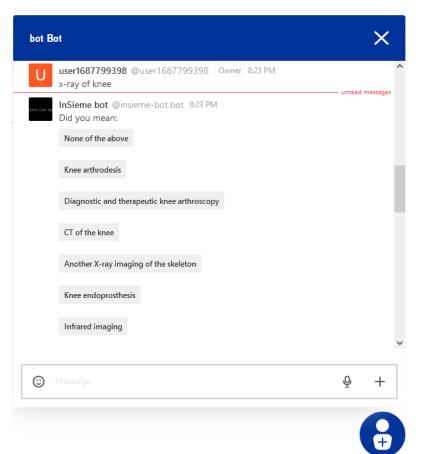
Insieme bot (on right)

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Online human help (bottom) several apps

Online human	nelp		
	medical professionals, ask questions, and g alified health specialists.	et	
Call centers Acti	/e users		
Ageing Dermatolog Ask a Ques Oncology Ask a Ques	tion 9		













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Components of the Insieme platform:

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Basic search

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Advanced search (example bottom)

Asthma			Respiratory diseases	~	
Subfield	✓ Region	~	Tags	~	Basic search O
Symptom	~				SEARCH











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Thank you!

http://dis.ijs.si matjaz.gams@ijs.si

Dim

- Agent and multiagent systemsComputational inteligence
- Ambient intelligence











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Video testimonial



https://www.youtube.com/watch?v= 6SSfieS7scU













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2003 - 2022



Mr. DEVIS PASCUT Senior Researcher Fondazione Italiana Fegato – ONLUS

to dal Fondo europeo di sviluppo regi a Europei i skiad za regionalal razvol



ato dal Fondo europeo di sviluppo region na Europeki sklad za regionalni razvoj



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Cross-border pilot actions to boost innovation in the health system through data sharing

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UNIONE EUROPEA EVROPSKA UNIJA



C3B

Progetto standard co-finanziato dal Fondo europeo di sviluppo regionale Standardni projekt sofinancira Evropski sklad za regionalni razvoj







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PROJECT PARTNERS

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LP: Italian Liver Foundation – NPO

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 ULSS3 Serenissima - Regional Center for Diagnostic, Prognostic and Predictive Biomarkers (CRIBT)



Zavod Republike Slovenije za transfuzijsko medicino Blood Transfusion Centre of Slovenia PP2: Blood Transfusion Center of Slovenia



PP5: Univesity of Lubiana, Faculty of Medicine



PP3: University of Trieste Department of medical sciences



PP6: Experteam srl







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ASSOCIATED PARTNERS

Ministry of Health of Republic of Slovenia

Region Friuli Venezia Giulia, Directorate for Healthcare, social policies and disabilities

Agency for medicinal products and medical devices of the Republic of Slovenia

PROJECT BUDGET FESR MONTHS 796.195,66 € 676.766,31 € 18















Identification and adoption of joint solutions for the **harmonization of cross-border biobanks**, through an inter-institutional collaboration, that will lead to the creation of the first pilot cross-border biobank of biological samples.







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BIO – BANK







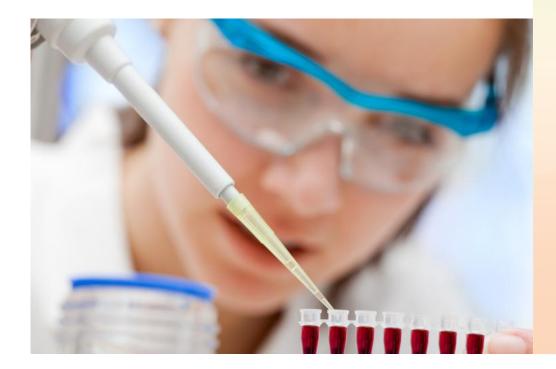






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The BIOBANK is a collection of biological material and **ASSOCIATED DATA**, **voluntarily donated** by groups of individuals, that are stored in an organized system and at low temperatures for **USE in RESEARCH**.







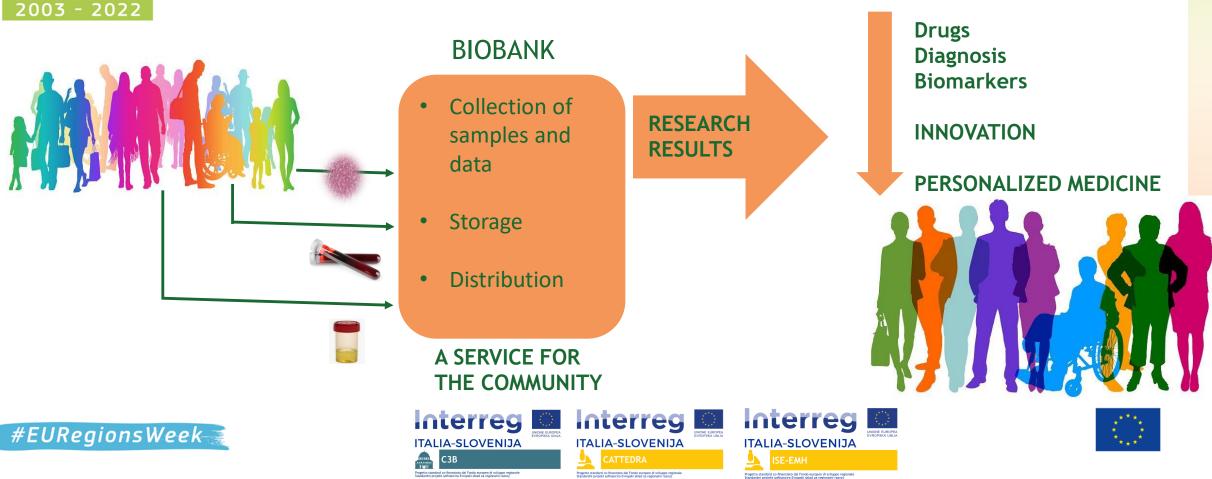








FROM THE COMMUNITY FOR THE COMMUNITY





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□ Staff Type of material Informed consent Type of data Quality Data linkages Access procedure User support & C Response time Type of population Sample annotation Quality consultancy Type of patients Protocols & Amount Amount Participant services standard Controls Sample frequency Data frequency Sample/data □ Networks & PPS Amount Uniqueness Uniqueness analyses Participant Events D FAIRness □ FAIRness Sample and data Efficacy endpoints □ Storage □ Storage involvement management Inclusion criteria Quality management Allowed use 3rd party training Alowed use categories Organisation Participants Samples Data Services Value Economic Brand Output Education (Re)use value value Education of staff Prevention □ Nr. of jobs/FTE Communication Nr. of requests Education of Diagnostics □ Nr. of spin-offs resources Nr. of issued. professionals (Clinical) guidelines Network Return on samples and data Education of users Treatments investment Exposure % of issued Education of Research papers Resource savings Brand awareness samples and data Risk reduction general public D Patents Image Nr. of users □ Internships & D Pricing % returning users Research projects Customer Clinical trials students Budget satisfaction Nr. of supported • Grants Revenues 0 projects Consortia Infrastructure







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BIOBANKS TO BOOST RESEARCH AND HEALTHCARE



Genetic and molecular causes of heart defects

Scientists have discovered that the cell powerhouses influence the arrangement of organs.



Combatting brain tumours with immunotherapy

Scientists are using geneticallymodified natural killer cells to combat brain tumours.



Genome atlas for pancreatic cancer

A team of scientists has successfully created a "roadmap" of gene changes in cancer cells.



Intermittent fasting no more successful than conventional dieting

Is there any truth to all the hype? A research team has proven that intermittent fasting can help people to lose weight.



A strong force against lymphoma: CAR T-cell therapy

Clonal haematopoiesis has no negative impact on treatment outcome.



Organs affected after mild course of COVID-19

Researchers have shown mediumterm damage and signs of leg vein thrombosis.

German Biobank Node

https://www.ppmm.ae/resear ch/successful-projects/?L=1













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- Mapping biological sample collections
- A model of questionnaire for conducting a survey on interregional biobanks

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- Identification of at least 6 interregional centers for samples collection
- Shared SOPs for the collection, sample processing, storage, and distribution

• Organizational SOPs facilitating the starting and appropriate management of new research biobanks

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- Training of health and research personnels
- A shared plan to regularly update procedures and models



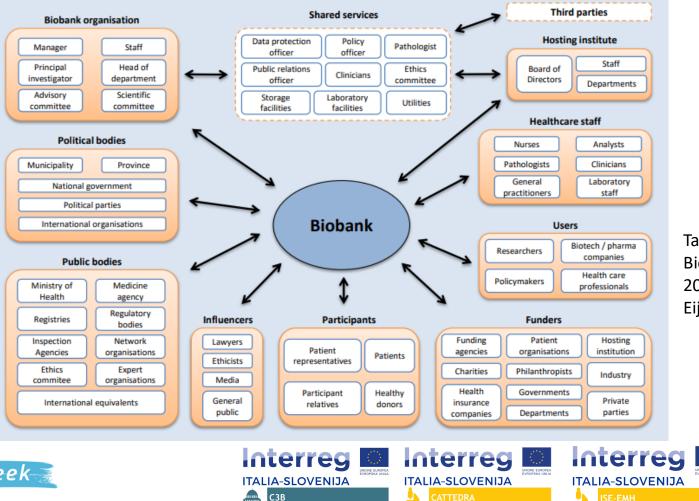


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Figure 2: Biobanking stakeholders



ato dal Fondo europeo di sviluppo regiona

Progetto standard co-finanziato dal Fondo europeo di sviluppo regional Standardei projekt sofinancira Evropski sklad za regionalni razvoj Progetto standard co-finanziato dal Fondo europeo di sviluppo regionali Standardni projekt sofinancira Evropski sklad za regionalni razvoj

Taken from BBMRI.nl Susteinable Biobanking. The financial dimension, 2019, Rogier van der Stijl, Lisette Eijdems.

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	Recommended			Additional
Data Collection	Acute Chest Pain Clerking			
Investigations				
Clinical Test	✓ 12-Lead ECG	Blood sugar level	X	BIOBANK
Laboratory	СК-МВ	СК		
	✓ Treponin T	LDH		
	FBC	BUSE		
Imaging	Mobile Chest X-r	ay		
Monitoring	SpO ²	Continuous ECG		
	Vital signs	Blood sugar level		
Treatment				
Nursing	 Oxygen by mask 	Counseling		
Drug	V Morphine	V Dextrose 5%		

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Taken from https://drdollah.com/clinicalinformation-system/

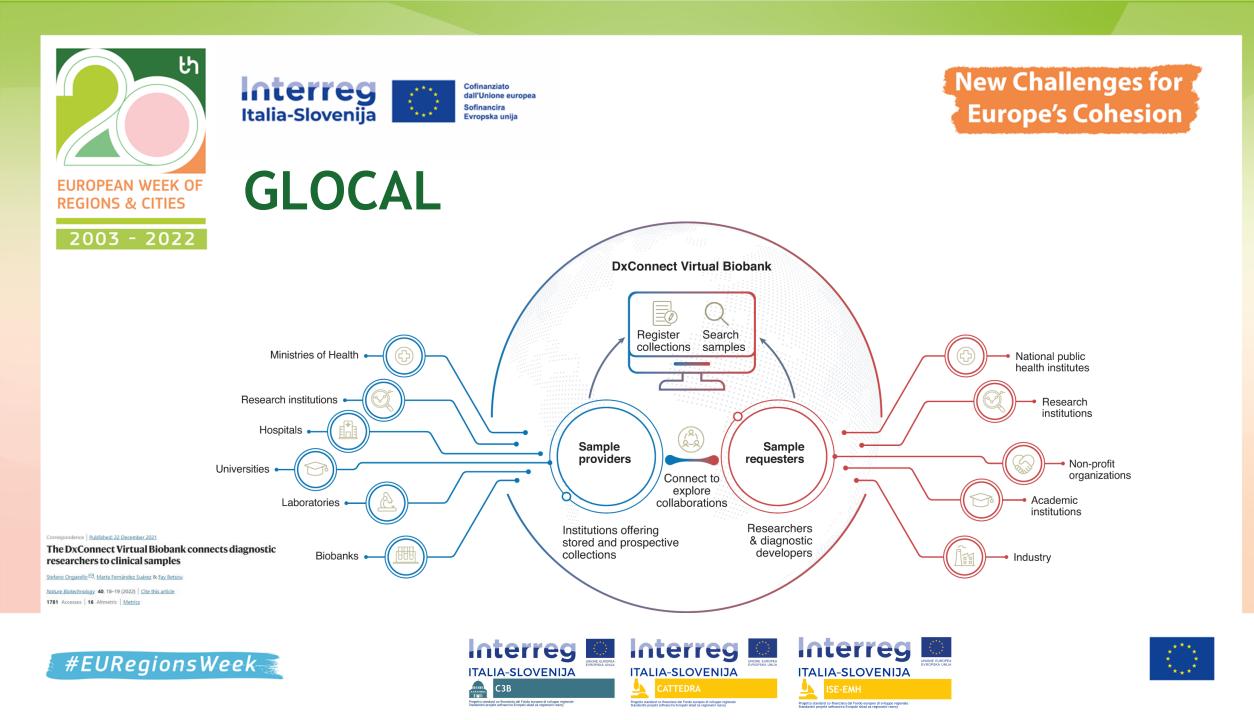






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PILOT STUDY

LIVER DISEASE

HEALTHY BLOOD DONORS (transfusion center)









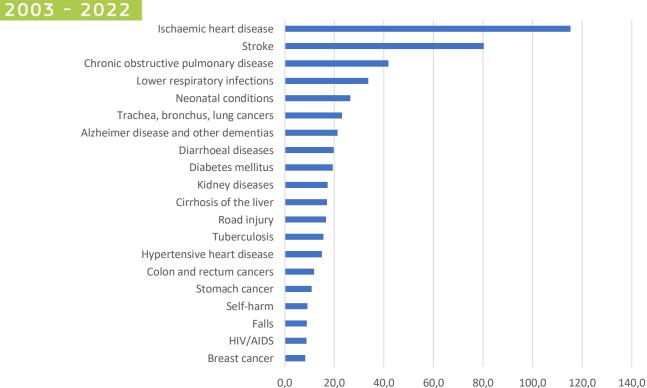
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WHY?



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THE 20 MOST COMMON CAUSES OF DEATH WORLDWIDE 2019

2 MILLION DEATHS PER YEAR WORLDWIDE, 1 MILLION DUE TO COMPLICATIONS OF CIRRHOSIS AND 1 MILLION DUE TO VIRAL HEPATITIS AND HEPATOCELLULAR CARCINOMA

Crude death rate (per 100 000 population)













UNMET CLINICAL NEEDS

Identification and stratification of population at risk

Early diagnosis

Use of non-invasive or minimally invasive techniques for diagnosis

Classification, prognosis prediction

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Personalized treatment

finanziato dal Fondo europeo di sviluppo regior ferencia Europeiri della za regionalni razvol

Therapeutic response predictive models



dal Fondo europeo di sviluppo regio









SCENARIO 1: NO BIOBANK

0	Start sample collection			
10	Target : 1000 samples Experiments			
12	Results			
14	Prototype			
16	– New kit			
vear	S			

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SCENARIO 2: YES BIOBANK













- https://www.ita-slo.eu/it/c3b
- https://www.fegato.it/piattaforma-transfrontaliera-per-una-efficiente-gestionedelle-biobanche/
- https://www.facebook.com/C3Binterreg/?notif id=1663599514501384¬if t=pr ofile plus rollback&ref=notif

Authorship declaration

"Il contenuto di guesta pubblicazione non riflette necessariamente le posizioni ufficiali dell'Unione Europea. La responsabilità del contenuto di guesta pubblicazione appartiene all'autore Devis PAscut.

The content of this publication does not necessarily reflect the official positions of the European Union. The responsibility for the content of this publication belongs to the author Devis pascut.







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Video testimonial



https://www.youtube.com/watch?v=406ej BRsHLE&list=PLxV88Dk-z7IqKtnDCyKx-ME_uTiBn7MHg&index=2











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CATTEDRA
Progetts standard co-finanzisto dal Prodo surgego el avilagos regionale





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Interreg Mr. ALBERTO TOMMASINI

Associate Professor of Pediatrics

University of Trieste

Institute of Child and Maternal Health

IRCCS "Burlo Garofolo"











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dall'Unione eu

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CATTEDRA

CollAborazione TransfronTaliEra per Diagnosi innovative di patologie Rare in pediatriA

Čezmejno sodelovanje za inovativno diagnostiko redkih bolezni v pediatriji

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Alberto Tommasini Andrea Taddio

Institute for Maternal and Child Health IRCCS «Burlo Garofolo», Trieste

Interreg **ITALIA-SLOVENIJA**













Mare Adriatico Mar Mediterraneo Novigrad



dall'Unione europea Evropska unija

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 Neuhof
 Frohnleiten
 Veil
 Hepfau
 AURCENLAND:
 Sé
 Szombäthely
 Gárce

 SALISBURGO
 Turnig
 Sankt Peter am
 Schelberi
 Aktieterial
 Keinnelbe
 Burgenland
 Ollersdorf im
 Burgenland
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REGIONE AUTONOMA FRIULI VENEZIA GIULIA

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65 Dubranec[°] Kravarsko Lasinja Selo Žaž Lasinja Lasinjsko Žažina Petrinja Pračno levac Velika Solina Madzari Lonja Resà Gornje[°] Taborište Blinja Sunja Strinen Glina Jabukovac Drenov Bok ca Vojnić Perna Maja BURLO ovac Perjasički

Log



Klenovňik Trnovec

Ivanec

Legrad

Carevdar

Dubrava Narta

Stružec

Kutina

Sisak

Gare

Slanje

Križevci Čvrstec SLA VO

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The Institute for Maternal and Child Health IRCCS «Burlo Garofolo» of Trieste and the Children's Hospital, University Medical Center Ljubljana are important national and international referral centers and crucial scientific partners of the Program Area. They had already collaborations in the past, mostly in the field of rare pediatric rheumatology diseases such as the immune-mediated inflammatory disease













Nevertheless many improvements are needed in terms of: a) patient-centered diagnostic methodologies capable of defining the specific inflammatory profiles of disease; b) to select targeted treatments; c) to widespread knowledge on the Program Area of diagnostic and therapeutic tools in this clinical setting; d) to improve tools for sharing knowledge and research results













The so-called "rare diseases" do not always receive adequate study and research attention from the scientific community and the pharmaceutical industry. Many of these diseases occur in childhood and require continuous diagnostic and therapeutic efforts to improve the quality of children's life and to minimize the socio-economic impact on families and the health system.

In particular, the area of pediatric rheumatology and immunemediated diseases are developing fields in the field of chronic inflammatory diseases.













PRIMARY AIM OF THE PROJECT

To implement and to optimize the skills already present in the program area; building a cross-border network that allows to improve the clinical and diagnostic offer for patients suffering from immune mediated diseases living in the program area.













For these purposes other important partners of the Project are:



Building of a clinical and laboratory database to share patients' informations on clinical manifestations, treatment strategy and disease outcome









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Last Viewed Patients (10)		Assessments in progress (0)	My patients (5)	
MILLER, Johan (Mr.) 2 Dec 1999 · 22y 3m ID 22121999 a minute ago	>	No assessments saved in progress.	DOE, John (Mr.) 10 Nov 2021 · 4m ID 12345678910	>
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2 hours ago DEMO JIA, Darija 4 Aug 2020 · 1y 7m	>		LENS, Amelie (Mrs.) (2) 1 Dec 1999 - 22y 3m ID 01121999	2
ID 3818191010 2 hours ago			PATIENT, New (Mr.))
KRANJSKI, Janez 9 Jun 1990 · 31y 9m ID 09061990 2 hours ago	>		ID 11555222366 PRODUCTION, TEST ONE Preferred name: SERIOUS M 9 Aug 2021 · Deceased	,
DEMO , SLE (Mrs.) 3 5 Jan 2022 · 2m ID 16119 6 hours ago	>		ID 09082021	
ANDREIA, Vanessa (U) 23 Sep 2021 · 5m	>			

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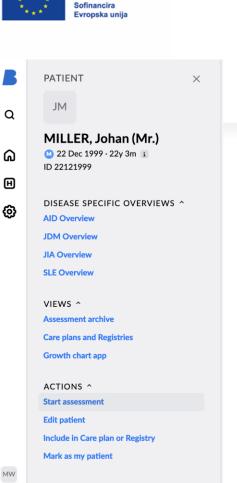
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Previous assessment: 4 Mar 2022, 12:24 · admin

Clinical manifestation for SLE (BILAG-2004) Previous assessment: 4 Mar 2022, 12:59 · admin

Clinical manifestation JDM

COVID-19 survey Previous assessment: 8 Mar 2022, 12:44 · admin

Damage item AID Previous assessment: 28 Feb 2022, 10:21 · admin

Diagnosis details

Electromyography findings

Genetic analysis Previous assessment: 28 Feb 2022, 10:33 · admin

Global activity disease assessment (SLEDAI-2K) Previous assessment: 7 Mar 2022, 21:37 · admin

Global disease damage assessment (SLICC/ACR) Previous assessment: 4 Mar 2022, 17:46 · admin

Growth chart - Input parameters





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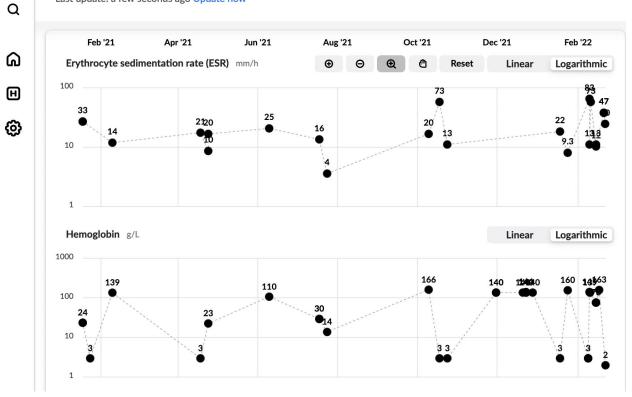




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SLE OVERVIEW

Last update: a few seconds ago Update now



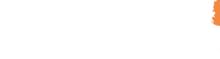












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To determine different inflammatory pathways among patients with the same clinical phenotype



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Analysis of 100-150 samples from selected patients -> NGS (Next Generation Sequencing) techniques (**RNA sequencing**)

ADA2, AP1S3, CARD14, CDC42, IL10, IL10RA, IL10RB, IL1RN, IL36RN, LACC1, LPIN2, MEFV, MVK, NCSTN, NLRC4, NLRP1, NLRP3, NLRP7, NLRP12, NOD2, OTULIN, PLCG2, POMP, PMSA3, PMSB10, PMSB4, PMSB8, PMSB9, PMSG2, PSTPIP1, RBCK1, RIPK1, SH3BP2, TMEM173, TNFRSF1A, TNFAIP3, TNFRSF1A, TNFRSF11A, TRNT1, WDR1











To determine different inflammatory pathways among patients with the same clinical phenotype

CORIK

Center odličnosti za biosenzoriko, instrumentacijo in procesno kontrolo

To build innovative diagnostic tools for a better definition of the STAT/JAK inflammatory pathway in patients' samples by measuring some specific proteins involved in this inflammatory process (*Gamma-Interferon; CXCL9;* CXCL9; *CXCL10; SIGLEC1*) -> important to define possible treatment strategy













Interreg

Italia-Slovenija



Project Results so far...

37 project meetings Laboratory test meetings with Experteam and Cobik 300 hours for database setting 4 databases ready More than 150 patients enrolled in the database 30 samples already tested 1 manuscript accepted for pubblication and 2 more submitted and actually under review









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Median pubblication rate 2,2 post/month













Lead partner



Project partners







COBIK Center odličnosti za biosenzoriko, instrumentacijo in procesno kontrolo









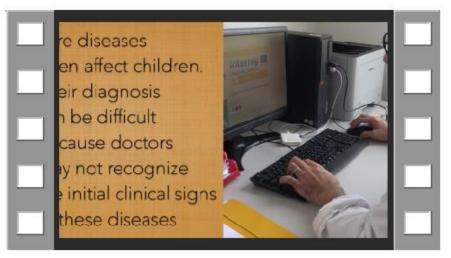
New Challenges for Europe's Cohesion





New Challenges for Europe's Cohesion

Video testimonial



https://www.youtube.com/watch?v=FHcsUr-HowQ&list=PLxV88Dk-z7IqKtnDCyKx-ME_uTiBn7MHg&index=3











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Cofinanziato dall'Unione europea Sofinancira Evropska unija New Challenges for Europe's Cohesion

Ms. LAURA COMELLI Managing Authority Interreg Italy-Slovenia Programme

MODERATOR





















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