

## Session 1

# PRECISION MEDICINE & BIG DATA in HEALTH

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**INTEGRANDO TALENTO**  
*mejorando tu calidad de vida*

The “Fundación para la Investigación del Hospital Clínico de la Comunidad Valenciana” (INCLIVA, [www.incliva.es](http://www.incliva.es)) is a top 10 biomedical research institute in **Spain** (non-profit).



INCLIVA has participated in FP6, FP7, H2020 and IMI research projects.  
Ongoing projects:

- Big data on health: [BigMedilytics](#), [BodyPass](#) and [IMI-BigData@Heart](#)
- Oncology: [Motricolor](#), Intracolor and [LEGACY](#)
- Frailty: [Advantage](#)
- Chronic pain: [IMI-PainCare](#)

### **SC1-BHC-08-2020: New interventions for Non-Communicable Diseases**

CANCER as non-communicable disease

Clinical trial:

- Based on the molecular characterization of the patients
- Used the Liquid biopsies for stratification/follow-up
- New interventions as using CRISp/Cas technology
- Combination of current drugs based on literature or testing new ones

Coordination/partners sought:

- CRO
- SME dedicated to develop biomarkers/ diagnostic kits
- Other clinical sites to recruit patients and perform clinical trials
- Some Pharma with innovative drugs to test in a clinical trial

### 1.1 Personalised medicine

SC1-BHC-06-2020: Digital diagnostics – developing tools for supporting clinical decisions by integrating various diagnostic data

SC1-HCO-14-2020: [ERA-NET: Sustained collaboration of national and regional programmes in cancer research](#)

SC1-HCO-16-2020: ERA-NET: Sustained collaboration of national and regional programmes in research on brain-related diseases and disorders of the nervous system

SC1-HCO-17-2020: [Coordinating and supporting research on the human microbiome in Europe and beyond](#)

### 1.2 Innovative health and care industry

SC1-BHC-08-2020: [New interventions for Non-Communicable Diseases](#)

SC1-BHC-11-2020: Advancing the safety assessment of chemicals without the use of animal testing

SC1-HCO-18-2020: Developing methodological approaches for improved clinical investigation and evaluation of high-risk medical devices

SC1-HCO-19-2020: Reliable and accessible information on cell and gene-based therapies

### 1.3 Infectious diseases and improving global health

SC1-BHC-17-2020: [Global Alliance for Chronic Diseases \(GACD\) - Prevention and/or early diagnosis of cancer](#)

### 1.4. Innovative health and care systems - Integration of care

SC1-BHC-24-2020: Healthcare interventions for the management of the elderly multimorbid patient

SC1-BHC-37-2020: [Towards the new generation of clinical trials – trials methodology research](#)

### 1.6 – Contribution to the Call on Digital transformation in Health and Care

SC1-DTH-12-2020: [Use of Real-World Data to advance research on the management of complex chronic conditions](#)

SC1-DTH-13-2020: Implementation research for scaling up and transfer of innovative solutions involving digital tools for people-centred care

SC1-HCC-10-2020: Towards a Health research and innovation Cloud: Capitalising on data sharing initiatives in health research

#### Call - Digital transformation in Health and Care

SC1-DTH-02-2020: [Personalised early risk prediction, prevention and intervention based on Artificial Intelligence and Big Data technologies](#)

SC1-DTH-06-2020: Accelerating the uptake of computer simulations for testing medicines and medical devices

SC1-HCC-06-2020: Coordination and Support to better data and secure cross-border digital infrastructures building on European capacities for genomics and personalised medicine

SC1-HCC-07-2020: Support for European eHealth

Interoperability roadmap for deployment

[SC1-HCC-08-2020: Scaling up innovation for active and healthy ageing](#)

HCC-09-2020: Supporting deployment of eHealth in low and lower middle income countries in Africa for better health outcomes

#### Call - Trusted digital solutions and Cybersecurity in Health and Care

##### Focus Area on Boosting the effectiveness of the Security Union

DT-TDS-04-2020: [AI for Genomics and Personalised Medicine](#)

DT-TDS-05-2020: [AI for Health Imaging](#)

# HEALTH PARTNERING DAY 2019

## Relevant expertise

#H2020PartnerHealth

### Technology available UMP:

- NGS (MySeq, NextSeq)
- ddPCR (BioRad)
- Nanostring®

### Computational & storage capacity:

- 11 servers with 250 cores and 4 TB of ECC RAM
- 260TB of storage (10 TB SSD)

All you need  
for genomic/  
genetic studies

### Clinical trials unit:

- Phase I, II and III clinical trials of different áreas (mainly cancer) are performed in our institution. More info [here](#).
- More than 25 Phase I clinical trials open in 2019.

**Basic and traslational research (from bench to bedside):** a multidisciplinary team: biochemists, biologists, biostatistician, bioinformatics, oncologists, pathologists, nurses,...  
→ ORGANOIDS as functional model

**Population:** INCLIVA is the institution managing the research in the area of Health carried out from the University of Valencia ([School of Medicine](#)), the [IGENOMIX Foundation](#) devoted to the reproductive genetics and the [University Clinic Hospital](#) that includes a health department providing healthcare to the **350.000 inhabitants with a EHR** that virtually covers the whole population of the department.

## Contact details

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