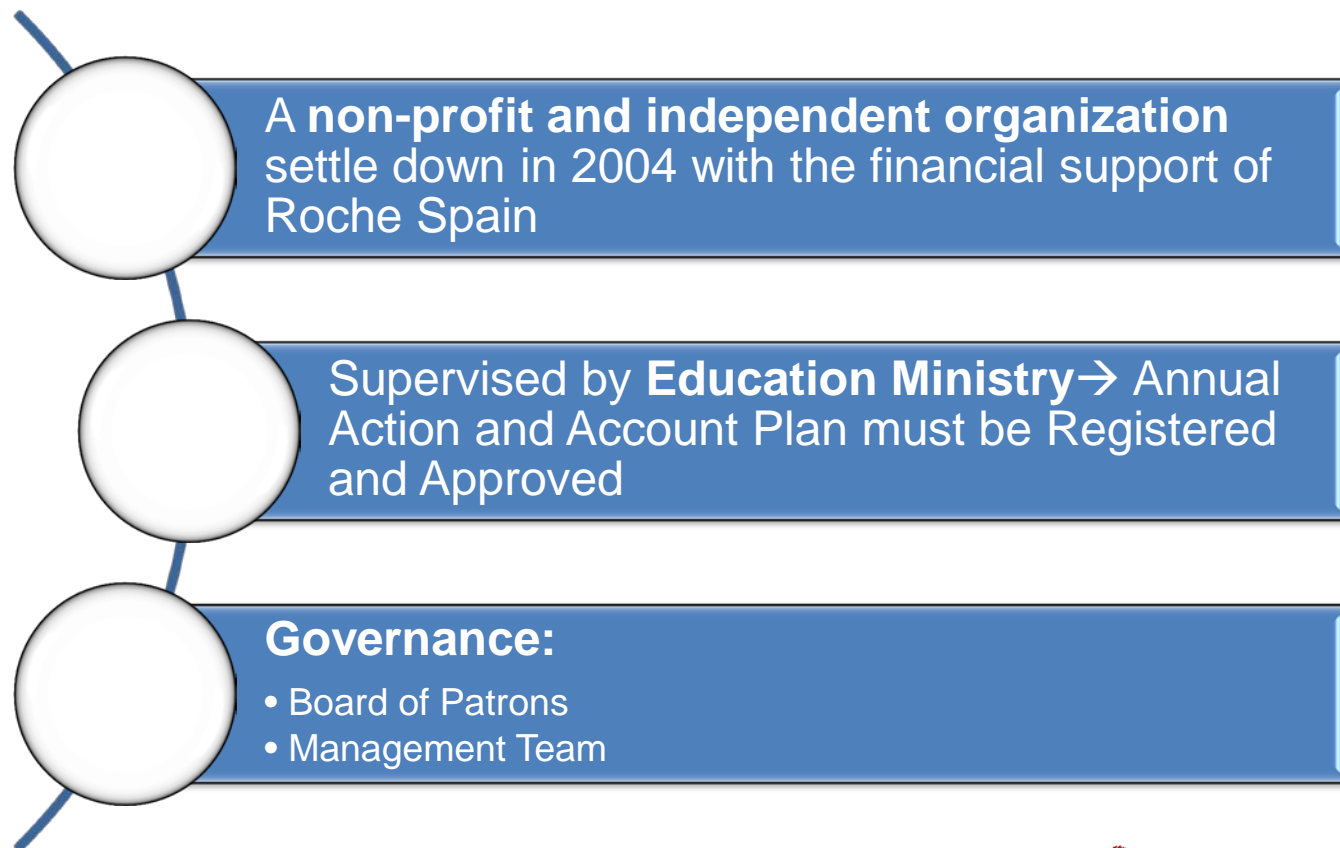


Proposal of Recommendations for a National Personalised Precision Medicine Strategy

*Consuelo Martín de Dios
Managing Director
Fundación Instituto Roche
Spain*

Berlín, 21 November 2018







To increase the knowledge on **Personalized Precision Medicine** to contribute that Spain is at the forefront of innovation in health

Proposal of Recommendations for a National Personalised Precision Medicine Strategy in Spain

- Personalised Precision Medicine, a paradigm shift in the way that healthcare is provided, **more effective prevention, diagnose and treatment strategies** are provided and contribute with the **sustainability** of healthcare systems.

Plans and Strategies in Personalised, Precision, or Genomic Medicine



- US, Japan, UK, France, Finland and Germany among others, have been **implementing strategies and plans** for Personalised, Precision, or Genomic Medicine at a national level to speed up its implementation at clinical setting.
- **Fundación Instituto Roche** (Roche Institute Foundation) is committed
 - to foster Spain at the forefront of innovation in health and contributing
 - to bring to the present the medicine of the future in our country.
- So that, in 2017 we decided to support the development of a **document** that would serve as a **starting point for a Personalised Precision Medicine National Strategy in Spain.**

Proposal of Recommendations for a National Personalised Precision Medicine Strategy in Spain

WHAT DO WE
WANT TO DO,
and
→ WHY?

Main Objective

- To identify **key elements** to elaborate a proposal of **recommendations** for the development of a National Strategy for Personalised Precision Medicine in Spain

Secondary Objectives

- To contribute to:
 - improve **clinical results** in patients, and quality and quantity of life.
 - the **equity and access** to top-quality personalised precision care.
 - the **sustainability** of our National Health System.
 - position **Spain on the forefront** of Personalised Precision Medicine.

PROPOSAL OF RECOMMENDATIONS FOR A NATIONAL PERSONALISED PRECISION MEDICINE STRATEGY IN SPAIN

HOW DO WE
DO IT

4
Steps

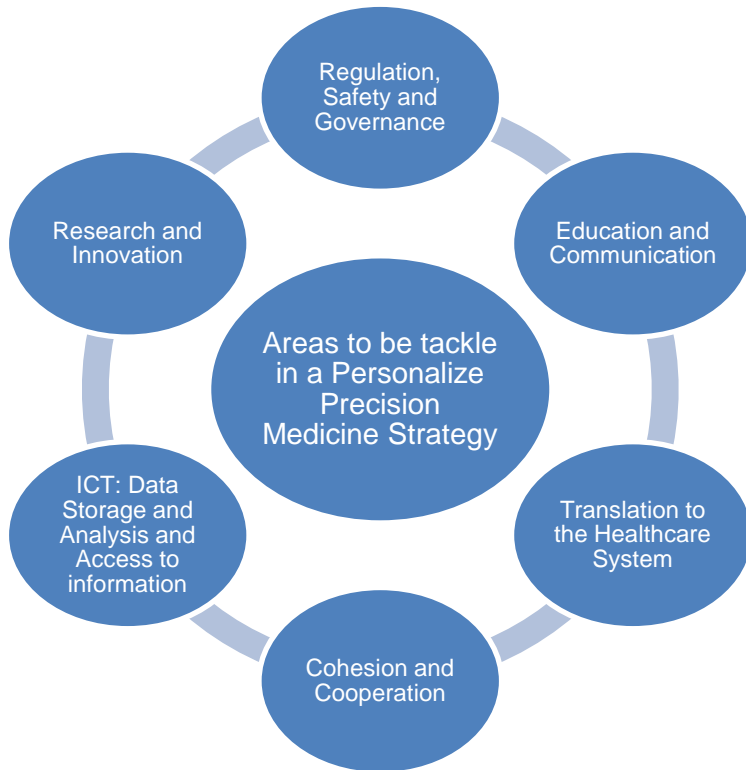
Advisor Committee*

Phase 1: **Analysis** of existing strategies, plans and policies on Personalised, Precision, or Genomic Medicine
Phase 2: Identification and consensus of the **key areas** to be develop in the National Strategy
Phase 3: Validation and consensus on **key recommendations**
Phase 4: Report edition, validation, endorsement and **publication**

Communication Plan

*ADVISOR COMMITTEE: GUILLERMO ANTIÑOLO HEAD OF SERVICE/FULL PROFESSOR (HUIVR/UNIV. OF SEVILLE), CLINICAL MANAGEMENT UNIT FOR GENETICS, REPRODUCTION AND FOETAL MEDICINE VIRGEN DEL ROCÍO HOSPITAL, SCIENTIFIC DIRECTOR OF THE MEDICAL GENOME PROJECT (MGP), JUAN CRUZ CIGUIDOSA PRESIDENT OF THE SPANISH ASSOCIATION OF HUMAN GENETICS (2013-2017), HEAD OF THE MOLECULAR CYTOGENETIC GROUP OF THE NATIONAL ONCOLOGY RESEARCH CENTRE (CNIO), JESUS GARCIA-FONCILLAS DIRECTOR OF THE ONCOLOGY INSTITUTE AND DEPARTMENT OF ONCOLOGY, FUNDACIÓN JIMÉNEZ DÍAZ UNIVERSITY HOSPITAL, AUTONOMOUS UNIVERSITY OF MADRID, MARIA JESÚS LAMAS HEAD OF THE HOSPITAL PHARMACY SERVICE OF THE UNIVERSITY HOSPITAL COMPLEX OF SANTIAGO (CHUS), ADRIÁN LLERENA DIRECTOR OF THE CENTRE FOR CLINICAL RESEARCH INFANTA CRISTINA UNIVERSITY HOSPITAL, EXTREMADURA HEALTHCARE SERVICE (CICAB), PROFESSOR OF THE MEDICAL SCHOOL OF THE UNIVERSITY OF EXTREMADURA (UEX), MEMBER OF THE PHARMACOGENOMICS WORKING PARTY OF THE EUROPEAN MEDICINES AGENCY (EMA), CARLOS LÓPEZ OTÍN PROFESSOR OF BIOCHEMISTRY AND MOLECULAR BIOLOGY IN THE DEPARTMENT OF BIOCHEMISTRY OF THE MEDICAL SCHOOL OF THE UNIVERSITY OF OVIEDO, CO-DIRECTOR OF THE SPANISH PROJECT IN THE INTERNATIONAL CONSORTIUM OF CANCER GENOMES NÚRIA MALATS HEAD OF THE GENETIC AND MOLECULAR EPIDEMIOLOGY GROUP OF THE HUMAN CANCER GENETICS PROGRAM, NATIONAL CENTRE FOR ONCOLOGY RESEARCH (CNIO), FELIPE PROSPER DIRECTOR OF THE CELLULAR THERAPY AREA, CO-DIRECTOR OF THE HAEMATOLOGY AND HAEMOTHERAPY SERVICE OF THE UNIVERSITY OF NAVARRE CLINIC (CUN), JULIO SÁNCHEZ FERRERO LAWYER AND CONSULTANT OF INTERNATIONAL ORGANISATIONS, MEMBER OF THE HEALTHCARE COMMITTEE OF THE CONGRESO DE LOS DIPUTADOS AND ASSISTANT SECRETARY OF HEALTHCARE, MEMBER OF THE BOARD OF THE ROCHE INSTITUTE FOUNDATION, RUTH VERA HEAD OF THE MEDICAL ONCOLOGY SERVICE OF THE HOSPITAL COMPLEX OF NAVARRE (CHUS), VICE PRESIDENT OF THE SPANISH SOCIETY OF MEDICAL ONCOLOGY (SEOM).

Proposal of Recommendations for a National Personalised Precision Medicine Strategy in Spain



- 1 **Six areas are defined** to be taken into account in the design of a strategy of Personalized Precision Medicine at a national level that contributes to the advancement of MPP in Spain
- 2 **Needs** to be tackle identified and **56 recommendations** have been formulated to move forward on the development of Personalized Precision Medicine

Proposal of Recommendations for a National Personalised Precision Medicine Strategy in Spain



- 3 A comprehensive **report published** that could be used as a framework to develop a National Strategy on PPM
- 4 The report have been **endorsed by ten scientific societies** with a relevant role on the implementation of Personalised Precision Medicine



Proposal of Recommendations for a National Personalised Precision Medicine Strategy in Spain



4 22nd March 2017, the report was presented on a **press meeting** with more than 50 media impacts (+50.000 accounts reached on twitter)

5 Roche Institute Foundation was requested to present the report at the

- Health **Ministry** Headquarters
- Genomics study commission set up by the **Senate**

6 The report has been **awarded**:

- Best Ideas Award 2017 on Health Policy (Diario Medico)
- Special Mention Projects developed by Foundations Go Health Award 2018
- ICPeMed Best Practice Award 2018



#ICPerMed
INTERNATIONAL CONSORTIUM

Project with a nomination by ICPERMED AWARD 2018 "Best Practice in Personalised Medicine"

Proposal of Recommendations for a National Personalised Precision Medicine Strategy in Spain

Main Conclusions



Proposal of Recommendations for a National Personalised Precision Medicine Strategy in Spain

Main Conclusions



Reference centres and biobanks network should be encouraged



Ensure compatibility between information systems and **Interoperable Electronic Health Record**.



Infrastructure and resources for computing handling, analysis and data storage is needed.



A national **coordination framework** of the Strategy should be defined



Enhance **awareness** on PPM among patients, patient groups and the society in general is a must

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Recomendaciones para una estrategia estatal de Medicina Personalizada de Precisión

27 de marzo de 2017 • Publicaciones

Propuesta de recomendaciones para una Estrategia Estatal de Medicina Personalizada de Precisión

La Medicina Personalizada de Precisión supone un cambio de paradigma en la forma de prestar la asistencia sanitaria, incorporando estrategias de diagnóstico y tratamiento más eficaces y seguras, y aportando soluciones para garantizar la sostenibilidad de los sistemas sanitarios.

Según el National Research Council (NRC) de Estados Unidos, la Medicina de Precisión supone la adaptación del tratamiento médico a las características individuales de cada paciente.

Esto supone la posibilidad de identificar a pacientes que difieren en su susceptibilidad a experimentar una determinada enfermedad, en la biología y/o el pronóstico de esta enfermedad, o en su respuesta a un determinado tratamiento. Esta identificación se realiza a través del análisis e integración de datos genómicos y otras ciencias ómicas, técnicas de imagen con datos clínicos y del entorno del

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We work to bring to the present the medicine of the future