



# Multi-stakeholder workshop on Pharmacogenomics

**24 September 2024**

Hybrid meeting / EMA, Amsterdam

Pharmacogenomics investigate the role of the genome in individualized drug response. Given the increasing amount of genomic data and large genomic databases emerging from health records, it is fundamental to leverage such data to explore novel opportunities for improved healthcare solutions for European citizens.

In line with strategic goals set out in the [EMA Regulatory Science to 2025](#), the [European medicines agencies network strategy to 2025](#), and the current [workplan](#) of the joint Heads of Medicines Agency (HMA)/EMA Big Data Steering group ([BDSG](#)), the main purpose of this conference is to highlight the relevance of pharmacogenomics for health and medicine regulation, to **discuss how pharmacogenomics can guide patients' treatment and can contribute to the safety of medicines, and to discuss how to promote the implementation of pharmacogenomics in clinical practice.**

In particular, the objectives of this event are to:

- Identify priority areas for additional regulatory action to promote the clinical implementation of pharmacogenomics.

- Discuss how medicines regulators can facilitate the uptake of genomics by national healthcare systems.
- Discuss how to leverage genomic data linked to real-world data sources with examples of current studies using such data.
- Discuss how to increase the regulatory impact of EU-funded projects in personalised medicine.

The outcome of the workshop will inform a roadmap towards the clinical implementation of pharmacogenomics in Europe.

# Multi-stakeholder workshop on Pharmacogenomics

**08:45**      **Joining and technical checks**

---

**09:00**      **Welcome and opening**

---

**Opening remarks from EMA**      **10'**  
*Emer Cooke, EMA*

**Opening remarks from European Commission**      **10'**  
*Irene Norstedt, DG Research and Innovation, EC*

**Introduction to the programme**      **5'**  
*Emmanuel Cormier, EMA*

**09:25**      **Session 1: Pharmacogenomics – current regulatory state of play and areas that would benefit from additional action**

---

*Co-chairs:*  
*Niklas Blomberg, IHI Innovative Health Initiative, Belgium*  
*Jessica Mwinyi, Medical Products Agency (MPA), Sweden*  
*Session introductions*      **5'**

**Why Pharmacogenomics is important for public health**      **15'**  
*María J Lamas, Agency for Medicines and Health Products (AEMPS), Spain*

**Current state of the art in Pharmacogenomics - a regulatory perspective**      **15'**  
*Marc Maliepaard, Medicines Evaluation Board (MEB), The Netherlands*

**Overview of medicinal products with PGx information in the SmPC**      **15'**  
*María Gordillo-Marañón, Agency for Medicines and Health Products (AEMPS), Spain*

**Questions and answers**      **20'**

**10:30**      **Coffee break**

---

**11:00**      **Session 2: Implementation of pharmacogenomics-by healthcare systems**

---

*Co-chairs:*  
*Falk Ehmann, EMA*  
*Carmen Laplaza Santos, DG Research and Innovation, EC*  
*Session introductions*      **5'**

**Pharmacogenomics implementation in Spain**      **15'**  
*Adrián Llerena Ruiz, Extremadura University*

**Pharmacogenomics implementation in the UK**      **15'**  
*Munir Pirmohamed, University of Liverpool*

**Pharmacogenomics implementation in Belgium**      **15'**  
*Jolyce Bourgeois, Belgian Health Care Knowledge Centre (KCE)*

<b>Pharmacogenomics implementation in Germany</b>	<b>15'</b>
<i>Catharina Scholl, Federal Institute for Drugs and Medical Devices (BfArM)</i>	
<b>Questions and answers</b>	<b>20'</b>

---

**12:30 Lunch**

---

**13:30 Session 3: How to leverage genomic data for evidence generation**

<i>Co-chairs:</i>	
<i>Patrice Verpillat, EMA</i>	
<i>Aimad Torqui, Medicines Evaluation Board (MEB), The Netherlands</i>	
<i>Session introductions</i>	<b>5'</b>
<b>Navigating the complexities: pitfalls and opportunities in designing clinical pharmacogenomic studies</b>	<b>15'</b>
<i>Magnus Ingelman-Sundberg, Karolinska Institute, Sweden</i>	
<b>Considerations on data sources and data types</b>	<b>15'</b>
<i>Sulev Reisberg, Tartu University, Estonia</i>	
<b>Pharmacogenomics in real-world data studies</b>	<b>15'</b>
<i>Daniel Prieto-Alhambra, Oxford University, UK</i>	
<i>Junqing Xie, Oxford University, UK</i>	
<b>HMA-EMA Catalogues on Real-World Data sources and studies</b>	<b>15'</b>
<i>Stefania Simou, EMA</i>	
<b>Questions and answers</b>	<b>20'</b>

---

**15:00 Coffee break**

---

**15:30 Session 4: The future of pharmacogenomics – next steps, challenges for implementation**

<i>Co-Chairs:</i>	
<i>Peter Arlett, EMA</i>	
<i>Irene Norstedt, EC</i>	
<i>Session introductions</i>	<b>5'</b>
<b>Panel discussion</b>	<b>60'</b>
<i>Panellists:</i>	
<b>Patient organisation perspective</b>	
<i>Francois Houyez, Eurordis</i>	
<b>Healthcare professional perspective</b>	
<i>Vera Deneer, Utrecht University Medical Center, The Netherlands</i>	

**Academia perspective**

*George Patrinos, University of Patras, Greece*

*Jesse Swen, Leiden University Medical Center, The Netherlands*

**European Partnership for Personalised Medicine perspective**

*Juan Riese Jorda, EP PerMed*

**Industry perspective**

*Marius Garmhausen, EFPIA*

**Regulator perspective**

*Jessica Mwinyi, Medical Products Agency (MPA), Sweden*

**16:45**

**Closing remarks**

---

**Wrap up**

*Peter Arlett, EMA*

**10'**