



**GA N° 668353**

**H2020 Research and Innovation**

## **Deliverable N°: D11.4**

### **Title: Organization of a U-PGx Personalized Medicine Day in France**

WP N° and Title: **WP11 – Dissemination and communication**

Lead beneficiary: **P5-GHXF**

Type: **Other**

Dissemination level: **Public**

Start date of project: 01/01/2016

Duration: 60 months

**Due date of deliverable:** Month 36

**Actual submission date:** Month 30 (09/07/2018)

**Comment:** [e.g. explanation for delay]



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## Executive Summary

In this document, we report the organization of the 3rd U-PGx Personalized Medicine Day in Toulouse, France. The document describes the approach that has been undertaken for the organization of the event, that includes the selection of the theme of the event and the topics to be discussed in the scientific program, the invitation of the speakers and moderators, the organization of the local logistics details of the event, such as the reservation of local accommodation, conference hall, catering and restaurant for the speakers' dinner, the setting up of the website, the overall advertisement of the event and the online registration form.

## Introduction

The U-PGx Personalized Medicine Days are dissemination activities of the U-PGx project, aimed to raise awareness about pharmacogenomics and the U-PGx project in particular among healthcare professionals and biomedical scientists. These scientific events are held in the cities of partner organizations, particularly those of the 7 clinical implementation sites of the U-PGx project and are co-organized by the Golden Helix Foundation and the local partner, each time as the local co-organizer. These events are international educational scientific meetings, aiming to provide timely updates on the field of pharmacogenomics and personalized medicine to the local biomedical scientists, healthcare providers and biomedical students, to educate and inform them on the application of pharmacogenomics in modern medical practice, and to bring together faculty members from universities and research institutes from the local scientific arena working in the field of pharmacogenomics in order to initiate collaborative projects in this field to the benefit of society.

## Description of the 3<sup>rd</sup> U-PGx Personalized Medicine Day

The 3<sup>rd</sup> U-PGx Personalized Medicine Day, part of a series of dissemination events for healthcare professionals and biomedical scientists that are being organized by the U-PGx project has been successfully organized on Friday November 17<sup>th</sup>, 2017 in Toulouse, France. The theme of the event, that was organized at the amphitheater of the School of Medicine of the University of Toulouse, was "Pharmacogenomics in Oncology: Deciphering the Ethical, Legal and Societal issues" and the official language of the event was French. The themes of this event was chosen based on the expertise of the local partner, as well as the need to address this timely topic among the partner institutions of the U-PGx project. Most



importantly, the conference was labeled as part of the **Eurosciences Open Forum (ESOF 2017)**.

There were 103 registered participants and speakers coming mostly from Toulouse but also from other cities in France and other countries in Europe. A dedicated website was set for this conference (**Figure 1**), where information about the venue, the organizing and scientific committees and invited speakers, as well as the scientific program was available. Online registration was also available from the same website.

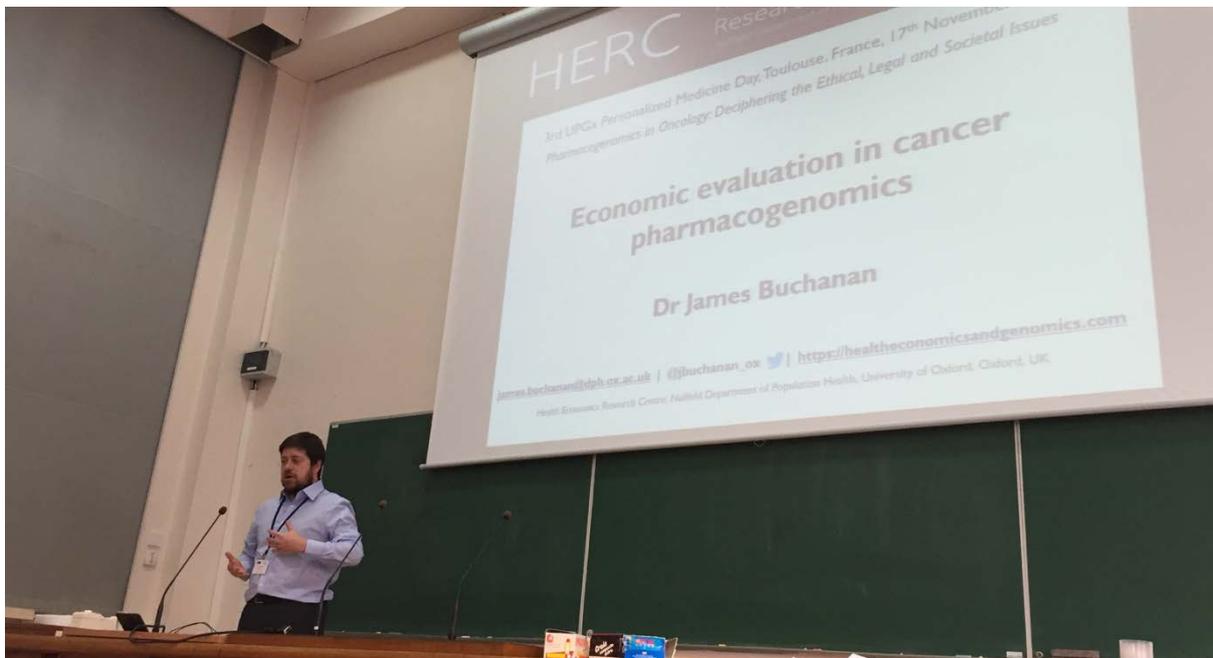
**Figure 1.** Overview of the 3<sup>rd</sup> U-PGx Personalized Medicine Day, where information about this conference was available.

Several partners of the U-PGx project gave lectures, such as Prof. Anne Cambon-Thomson (Toulouse, FR), who gave to keynote lecture, Dr. Erika Cecchin (Aviano, IT), Dr. Emmanuelle Rial-Sebbag (Toulouse, FR), and Prof. George P. Patrinos (Patras, GR), while other renowned scientists in the field, such as Dr. James Buchanan (Oxford, UK), Prof. Ingolf Cascorbi (Kiel, DE), Heidi Howard (Uppsala, SE), Sandrine de Montgolfier (Toulouse, FR) and Fabienne ThomasJean (Toulouse, FR) also gave interesting lectures.

The conference started with the welcome addresses from the members of the Organizing Committee, Dr. Emmanuelle Rial-Sebbag and Prof. George P. Patrinos.

The 1<sup>st</sup> session in the morning started with the lecture of Dr. Erika Cecchin (Aviano, Italy), who talked about the application of pharmacogenomics to increase the safety of anticancer drug treatment. Dr. Cecchin presented some preliminary findings from the U-PGx study and its implication in applying pharmacogenomics into the clinic. The keynote lecture with the title “Ethics of Biotechnologies” was delivered by Prof. Anne Cambon-Thomsen (Toulouse, FR), who gave an overview of the ethical dimensions of biotechnology, including the relevant ethical aspects of pharmacogenomics in personalized medicine. The next talk was delivered by Dr. Fabienne Thomas-Jean (Toulouse, FR), who presented the levels of evidence and the recommendation to implement pharmacogenomics-based personalized therapy from the French network of pharmacogenetics (RNPGx). The morning session ended by Prof. Ingolf Cascorbi, (Kiel, DE), who talked about genetic and epigenetic mechanisms of resistance to thymidine kinase inhibitors in cancer treatment.

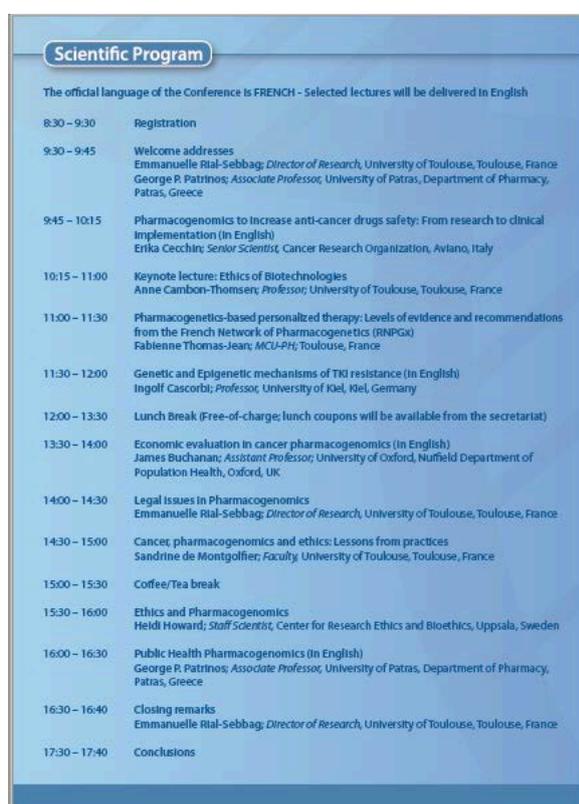
After the lunch break, the meeting continued with the 2<sup>nd</sup> session that revolved around public health genomics issues related to cancer pharmacogenomics, such as ethical, legal and economic issues. In particular, Dr. James Buchanan (Oxford, UK; **Figure 2**) provided scientific evidence and examples from economic evaluation in pharmacogenomics, followed by Dr. Emmanuelle Rial-Sebbag (Toulouse, FR), who presented legal issues related to the application of pharmacogenomics, particularly the issue of informed consent. The session ended with the lecture of Dr. Sandrine de Montgolfier (Toulouse, FR), who gave some real-life examples from the application of ethics in cancer pharmacogenomics.



**Figure 2.** Dr. James Buchanan, lecturing at the 3<sup>rd</sup> U-PGx Personalized Medicine Day.

After the afternoon tea break, the meeting continued with a last session devoted to the ethical applications and trends in the field of pharmacogenomics. Dr. Heidi Howard (Uppsala, SE) gave a very nice overview of the ethical dilemmas in pharmacogenomics, followed by the last lecture of Prof. George P. Patrinos (Patras, GR), who expanded on the various issues that relate to Public Health Pharmacogenomics, such as general public awareness, education of healthcare professionals, analysis of the various stakeholders' views related to the application of genomic medicine, etc.

The scientific program was printed in the usual format adopted for the previous meetings, aiming to assign a specific brand for these events (**Figure 3**).



Scientific Program	
The official language of the Conference is FRENCH - Selected lectures will be delivered in English	
8:30 - 9:30	Registration
9:30 - 9:45	Welcome addresses Emmanuelle Rital-Sebbag; <i>Director of Research, University of Toulouse, Toulouse, France</i> George P. Patrinos; <i>Associate Professor, University of Patras, Department of Pharmacy, Patras, Greece</i>
9:45 - 10:15	Pharmacogenomics to increase anti-cancer drugs safety: From research to clinical implementation (In English) Erika Cecchini; <i>Senior Scientist, Cancer Research Organization, Aviano, Italy</i>
10:15 - 11:00	Keynote lecture: Ethics of Biotechnologies Anne Cambon-Thomsen; <i>Professor, University of Toulouse, Toulouse, France</i>
11:00 - 11:30	Pharmacogenetics-based personalized therapy: Levels of evidence and recommendations from the French Network of Pharmacogenetics (RNPgX) Fabienne Thomas-Jeant; <i>MCU-PH, Toulouse, France</i>
11:30 - 12:00	Genetic and Epigenetic mechanisms of TKI resistance (In English) Ingolf Cascorbi; <i>Professor, University of Kiel, Kiel, Germany</i>
12:00 - 13:30	Lunch Break (Free-of-charge; lunch coupons will be available from the secretariat)
13:30 - 14:00	Economic evaluation in cancer pharmacogenomics (In English) James Buchanan; <i>Assistant Professor, University of Oxford, Nuffield Department of Population Health, Oxford, UK</i>
14:00 - 14:30	Legal issues in Pharmacogenomics Emmanuelle Rital-Sebbag; <i>Director of Research, University of Toulouse, Toulouse, France</i>
14:30 - 15:00	Cancer pharmacogenomics and ethics: Lessons from practices Sandrine de Montgolfier; <i>Faculty, University of Toulouse, Toulouse, France</i>
15:00 - 15:30	Coffee/Tea break
15:30 - 16:00	Ethics and Pharmacogenomics Heidi Howard; <i>Staff Scientist, Center for Research Ethics and Bioethics, Uppsala, Sweden</i>
16:00 - 16:30	Public Health Pharmacogenomics (In English) George P. Patrinos; <i>Associate Professor, University of Patras, Department of Pharmacy, Patras, Greece</i>
16:30 - 16:40	Closing remarks Emmanuelle Rital-Sebbag; <i>Director of Research, University of Toulouse, Toulouse, France</i>
17:30 - 17:40	Conclusions

**Figure 3.** The Scientific Program of the 3<sup>rd</sup> U=PGx Personalized Medicine Day in the standard U-PGx format.

## Summary/Conclusions

Overall, the 3<sup>rd</sup> U-PGx Personalized Medicine Day was successfully organized in Toulouse, France (**Figure 4**). All participants provided a very useful feedback, which will contribute towards the better organization of the future events.



**Figure 4.** Participants attending the 3<sup>rd</sup> U-PGx Personalized Medicine in Toulouse, France.